# Car Pool Rest-A



# UNIVERSITI TEKNIKAL MALAYSIA MELAKA

# CAR POOL RESTA

# HABEEB E SADEED



This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Software Development) with Honours.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

# FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2021

# DECLARATION

I hereby declare that this project report entitled

# [CarPool RestA]

is written by me and is my own effort and that no part has been plagiarized

without citations.



I hereby declare that I have read this project report and found this project report is sufficient in term of the scope and quality for the award of

Bachelor of [Computer Science (Software Development)] with Honours.

SUPERVISOR

\_\_\_\_ Date : 11/09/2021

([NOR HAFEIZAH HASSAN])

### DEDICATION

Everyone who has given me the support, inspiration, and passion for seeing this project through to its end deserves to have their names included in this Final Year Project dedication page. First and foremost, I would like to thank my loving parents, who have provided me with unfailing love and encouragement throughout my whole life. Throughout the past two months, they have been continually on the lookout for me, at all hours of the day and night, on a daily basis. Thank you very much for your help and support.I am eternally thankful for my parents' love and support, especially my mother, who never stopped lovingme while simultaneously doubting me and pushing me to my limits and beyond. As a result, I am glad for their existence, as well as for engaging me to assist them in navigating challenging situations and learning how to deal with them effectively. In order to achieve my goals, I must aim to be a hardworkingindividual with a strong sense of purpose and the capacity to develop into an outstanding type of individual. I would also like to convey my gratitude and appreciation to Nor Hafeizah Binti Hassan, and she has acted as my mentor and the person I look up to as a supervisor for her assistance and guidance throughout the years. She has received billions of unending loves since the beginning of time, and the number of them continues to expand every day. I consider myself really fortunate and honoured to be under his supervision and care, which is something I take for granted most of the time.

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### ABSTRACT

The purpose of this project is to investigate the outcome of a new type of ride sharing app application which we named as Car Pool RestA . This application will be available for use for the users within a particular range. In this report , we have discussed the build of this application in terms of its importance among other ride sharing applications. This thesis will discuss the practical demonstration of some of the new features that the application will uniquely offer and these very features will be the highlight of the new kind of application or the Car Pool RestA as we named it to be in light of solving a problem in a particular scenario serving the ride needs of a given population lying in a particular range ensuring a top quality service to all the residents in a particular community .



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# LIST OF ABBREVIATIONS

Application Programming Interface
Final Year Project
User Interface
iPhone Operating System
Media Access Control



### **CHAPTER 1: INTRODUCTION**

#### **1.1 Introduction**

Car Pool RestA will be available as a cross-platform mobile application service on both the Android and iOS platforms, and its database will be accessible via the web. Through this program, we have observed that it is usually difficult for some residents of a specific location to get to their destinations on time, particularly in the lack of continuous on-going bus service in the neighborhood, which we hope to address. On the other hand, the Car Pool RestA programme will make an attempt toaddress the situation. Any person who resides in a certain geographic area where this application is inuse, regardless of their employment status or background, has the choice to become a licensed driver as a result of the implementation of this programme. CarPool RestA is an easy programme from the driver's point of view in terms of its user interface. Every homeowner in a certain neighborhood does not have the same schedules and habits as the others. Aside from that, they can register with the government and provide their services to other residents in times of need at an exorbitant fee when the situation calls for it.

Business analysts believe that the demand for emergency transportation will continue to grow in price, causing costs to rise further and further. This allows the rider to save their reputationby not missing crucial deadlines, and it also allows the rider to benefit from the experience by ridingin the opposite way. It is possible that drivers will use this application because of the high demand for services during critical hours, which may result in drivers being required to exclude ride requests from other clients who do not have urgent deadlines. As a result of the high demand, clients with scheduled appointments will be prioritized first, which may encourage drivers to use this application.

### **1.2 Problem Statements**

Concerning current scenarios in Malaysia and other parts of the world where GrabCar and other ridesharing applications do hold a monopoly in the business, we have acknowledged that we find organizational blunders and managerial behind every ride-sharing app's initial successes mistakes, and growth hurdles that must be overcome. One such setback is being overly business-oriented and failing to provide services to clients based on their needs and priorities. Customers who use ride-sharing programs regularly may have their requirements at specific periods in their schedules. The worldwide ridesharing sector is dominated by large corporations such as Uber and Lyft.

CarPool RestA, on the other hand, is not primarily concerned with making a profit but rather with providing noble services to a certain community of people who live in a specific location. Forwant of a better expression, the goal is to fully eradicate any prospect of customers being forced towait in a line. Furthermore, the pool of drivers accessible is adequate in terms of size, which will beuseful in giving service to everyone who falls within a specific range of distances from the terminal.

We frequently miss the bus that transports us to and from our university or your company, which is always planned to run on a strict schedule. What we have observed in the present Malaysian circumstances is that, at various times, Grab services are extremely crowded at the same time, and one cannot afford to wait any longer than necessary because his meeting is scheduled to begin in around 30 to 45 minutes in some cases. It is extremely inconvenient for people who do not have access to their own transportation. If one has his or her own transportation, it is possible that his orher own transportation will not be adequate at all times.

### 1.3 Objectives

The project has the following objectives:

- 1. Launch alternative ride system ensuring ease of availability during class hours/office hours within a area restricted.
- 2. Open alternative income opportunities for anyone within a preferred region/area by helping other students/workers who are in need of transport.
- 3. Students/workers or anyone can register in the app as being drivers offering noble services topeople having exams or important appointments,

وتتؤمر سبتي تتكنيكا إمليسه

4. Car Pool System will be dedicated to a restricted area only, so less waiting time of customers asseen in the Grab or MyCar services and thereby serving the needs of friends and families.

## 1.4 Project Scopes

1.4.1 *Target Users* 

#### 1.4.1.1 Drivers

Driving will have a flexible earning opportunity. It's a great alternative to full-time driver jobs, part-time driver jobs, or other part-time gigs, temp jobs, or seasonal employment. Or maybe someone who is already a rideshare driver and wants to supplement your income by becoming a driver using the Uber platform. Drivers who use CarPool RestA come from all backgrounds and industries, setting their own schedule to make work fit into their lives, not the other way around.

### 1.4.1.2 *Riders*

The riders of this application are residents of a particular community. These local residents do not possess their own transports, and they might face problems in critical moments of their livesdue to lack of transport. They come from all walks of lives, and a portion of them may not be able toafford transport of their own. However, the fact is that they too have a necessity at certain times of theday. The carpool rest application comes with all the features required to fulfill the needs of people coming from all backgrounds.

#### 1.4.1.3 Modules and functionalities

- 1. Registration Module: Both riders and drivers can register into the system using the mobile application platforms.
- 2. Login Module: Upon registration, both riders and drivers can log into the system.
- 3. Payment Module: As a startup application, the mode of payment will be cash. Once the riderhas arrived at his destination, he will pay the cash, while the driver will confirm the receipt of the cash.
- 4. Set range Module: The user of this application will be able to scan if his preferred area falls within the radius set.
- 5. Priority-based ride: The rider can let the drivers know the sheer urgency of the ride.
- 6. Earnings module: All the earnings will be computed and saved in the backend. These data can be viewed in the driver's UI.
- 7. Trip History module: All the trips will be recorded and saved in the database table.
- 8. Upon completion of each ride, the riders will be able to rate the driver out of 5.0. The driverswill be able to view the average of all the ratings incurred from serving all his clients.

### **1.5 Project Significance**

The Uber/Grab/MyCar services are business oriented-and these services are very busy during certain times in the day. They do not have a way to look at the priorities of the customers, whether they are in some sort of rush or not. Mostly, they follow the orders on a first-come, first-servebasis. Most organizations have a conventional bus scheduling system, and this does not meet the demand of the people living in one particular area at run time. On the other side, Grab, Uber, andMyCar Services are business-oriented. The critical hours for students and workers requiring transportare taken care of. So, therefore, there is a need for a system to be built that will give ensure that thestudents/workers/ clerks or anyone regardless of whatever professions they belong to do not miss out on exams/important classes just because they cannot afford to purchase transport of their own. This is possible if the service is implemented within the restricted area in the first place.

Now a proposed solution could be as we analyze the aforesaid scenarios could be only and only if an area provides an alternative ride system that is available at run-time and does not follow the scheduled timing as other conventional ride services and is made to prioritize the transport needs of the people staying within that area only. If one has his own transport and then hecan use his transport to deliver his fellow classmates or office clerks helping them reach the exam venue and apparently opening doors of opportunities for these people to earn some extra cash whiledoing a noble service to the people in a particular area. It is because Grab, Uber, or MyCar services offer their services in various different locations, so they will never prioritize the needs of students and office clerks or anyone in need in a particular area.

#### **1.6 Expected Output**

- The system will be limited to target locations only set by the application system in he backend.
- The application will feature priority-based ride is featured in the application.

## **1.7 Conclusion**

Throughout the first segment, I went into great detail about each obstacle. There was a clear understanding of the project's objectives, scope, and solution to each difficulty. It also explains the significance of the project so that the benefits that may be reaped from using this strategy can be demonstrated. A favorable outcome can be achieved by employing this strategy toalleviate the problems of the hostel's pupils. A more in-depth discussion of the Project Methodology, the Project Schedule, and the Milestones will be covered in greater detail in Chapter 2 of this paper.



## **CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY**

#### **2.1 Introduction**

Travelers in metropolitan areas can now gather transportation information via smartphone applications (apps), which have recently gained popularity as a method of gathering information. There may be further use for these apps in addition to simply providing consumers with travel information. Conventional MyCar Services and Grabs provided transportation for businesses in Malaysia; however, the availability of these services could not be guaranteed. An extensive verification process must be completed before a grab driver can be hired, which limits the likelihood of job easinesson the part of the employer. In order to address employment and availability difficulties, the only answeris to provide a pool of cars within a defined geographic area. In order to better comprehend this new application, we conduct a thorough literature review that includes smartphone applications, travel, literary review, and transportation implications. We've conducted interviews with a variety of Malacca residents who don't have access to an automobile for various reasons. In the last stage, users of Androidand iOS applications were polled in order to gain an understanding of how (usually) multimodal applications are used and how (generally speaking) multimodal trip aggregators can influence travel behavior. The findings of this study, which are summarised in this paper, contribute to a better understanding of multimodal travel through cmartphone apple.

through smartphone apps.

# 2.2 Facts and Findings

Facts	Findings	Proposed Solution
Local residents cannot book a ride during peak hours.	These residents have important appointments or meetings to attend.	The drivers must be committed to offering their service within a specified community in a region-restricted.
Surge of price is very high during peak hours.	Riders will not have any second option apart from opting for the ride.	A pool of dedicated car drivers in a particular locality and these driversshould price the price computed by the application system based on the distance.
There is no way for the riders to let the drivers know the sheer importanceof the ride SIT during critical hours while the booking of the ride is in progress and might consume a bulk of the rider's valuable time.	These riders might be patients, and the inability to book an instant ride might risk their lives. These riders might also be students and might at times fail to reach the exam venue in a timely manner.	The system should be developed and must comewith a priority-based ride-sharing module.

# Table 2-1 A brief illustration of findings based on realistic perspective

Now, we will consider a sample of analysis of ride-hailing services in Penang, considering the residents of Penang as a population to be sampled.

The table below also demonstrates that there is a huge difference in the public's opinion of the waiting time for taxi and ride-hailing services; for example, 61 percent of respondents believe that the waiting time for ride-hailing service is short, while only 28 percent believe the same for taxi service. Taxi riders usually have to wait longer because it takes time to hail a passing taxi or call a cab company to dispatch a taxi to their location.

Features of cab service	Survey Findings	Taxi Service (%)	Ride-Hailing Service (%)					
The cab charges are fair	Agree	8.2	71.1					
	Neutral	22.6	17.0					
	Disagree	66.9	4.8					
	No response	2.3	7.1					
The waiting time is short	Agree	28.1	61.0					
	Neutral	34.0	26.7					
	Disagree	35.6	5.0					
	No response	2.3	7.3					
املاك	Agree	23.3	66.9					
The service is easy to access	Neutral	28.7	22.2					
	Disagree	11KAI 45.7 AL AY	SIA 13.6-1 AK					
North March 197 March 197	No response	2.3	7.3					

Table 2-2-Outcome of a survey conducted from local residents in Penang

## Table 2-3 Profile of users and non-users of conventional ride-hailing services

			Ride-H	lailing	Incidence ofUsing Ride-Hailing			
Factors	Categories	Overall Sample (percent)	Non-Users (percent)	Users (percent)				
Conden	Female	49.7	43.7	58.0	49.0			
Gender	Male	50.3	56.3	42.0	35.0			
	Malay	44.9	50.2	37.5	35.1			
Ethnicity	Chinese	44.2	39.0	51.5	48.8			
	Indian & others	10.9	10.8	11.0	42.3			
	Primary & below	2.7	4.3	1.5	7.7			
Educational Background	Secondary & Pre-U	46.5	56.7	32.5	29.3			
	Tertiary and above	50.7	39.0	67.0	55.4			
Professions	Not working	21.2	19.9	23.0	45.5			
	Self-employed workers	10.9	12.6	8.5	32.7			
	Lower middle class	70.0	70.0	70.0	41.9			
Income Profiles	Middle class.	26.0	26.7	25.0	40.3			
	Rich or upper class	4.0	3.3	5.0	52.6			
Car Ownership	Non-car owners	21.0	18.4	24.5	49.0			
	Car owners	79.0	81.6	75.5	40.5			
Smartphone Ownership	Users	95.2	92.8	98.5	43.4			
E.	Non-users	4.8	7.2	1.5	13.0			

Key findings from Table 2-2 and Table 2-3:

- i) Table 2-3 data shows about 21% percent of this population do not own cars.
- ii) Table 2-3 data shows that the population sampled in Penang constitutes of 95.2% of university smartphone users.
- iii) Table 2-2 data suggests that the majority of the users disagree with the regular cab charges being fair.
- iv) The data from Table 2-3 suggests that with the increasing number of customers and drivers of ride-hailing services, a driver is more likely not to be found in peak hours.
- v) The data from Table 2-3 suggests that adults with decent educational backgrounds opt to use ride-sharing services.
- vi) The data from Table 2-3 suggests that about 74.4% of this population questions the ease of use of all the ride-sharing applications which are now in use.

## 2.2.1 *Existing System*

After reviewing some of the various ride-sharing systems in Malaysia, the result was a few existing ride-sharing application systems. Besides, some research papers have highlighted various flaws in conventional ridesharing systems. Most of these ridesharing applications intend to run a business monopoly.

We will discuss the operation of some of these ride-sharing applications in brief.

### 2.2.1.1 MyCar

In 13 major Malaysian cities, MyCar Asia, a Malaysian-developed e-hailing taxi app, provides on-demand passenger transportation services. Malaysian e-hailing rides now account for 15% of the market, with over 1 million passengers served each month.

(a) MyCar Order Processes:

- 1. Launch the MyCar app. KNIKAL MALAYSIA MELAKA
- 2. Enter your dropp off address.
- 3. Choose delivery or pick up.
- 4. Board on to the car.
- 5. Ride to your destination
- 6. Complete the order and payment.
- (b) Payment:

Payment can be through the application's payment gateway using a debit card or credit card

or by cash.

(c) Cost:

The amount of the ride cost charged MyCar is dependent on a variety of operational factors, including yourlocation and the restaurant from which you are ordering. When placing your purchase, you may always double-check the ride fee to make sure it is correct. However, it is well-known that the bare minimum feeis RM 7 or more for each transaction.

(*d*) Operating hours:

The current operational hour for the aforementioned ride service is 9:30 am to 6 pm due to covid.

- (e) Pros:
  - i) They are comparatively cheaper than grab.
  - ii) They are mostly available while Grab car is not. However, even these services areat times busy.
- (f) Cons:
- 1. The pool of drivers serving MyCar Malaysia is comparatively is when compared to other car services.
- 2. The price for the ride is sometimes unexpectedly high.
- 3. These drivers might take a lot of time to reach their clients from the pickup location.

Grab Car is Southeast Asia's fastest-growing car services service that brings great to the residents throughoutMalaysia. It provides everyday services like Deliveries, Mobility, Financial Services, and More.

- (a) Grab Car Order Processes:
  - 1. Launch the Grab app.
  - 2. Enter your drop off address.
  - 3. Choose delivery or pick up.
  - 4. Board on to the car.
  - 5. Ride to your destination.
  - 6. Complete the order and payment.
- (a) Payment:

Payment can be through the application's payment gateway using a debit card or credit card or by cash.

(b) Cost:

The order's total cost includes the price of the ride plus a very small amount of tax fee.

(c) Operating hours

The current operational hour for the aforementioned ride service is 9:30 am to 6 pm due to covid.

- (*d*) Pros:
- 1. Earn GrabRewards based on the amount you spend and use them to redeem further incentives.

- (e) Cons:
- 1. The price hike during peak hours is very common.
- 2. They are not always available in remote locations or in places where it is not much crowded. The perspective is to serve areas with a large pool of riders due to business perspective. For example, the grab car or grab taxi is hardly found between 11:00 am to 1 pm in UTeM campus, Malacca, Malaysia.

## 2.2.1.3 Riding pink

The Pink Service is one of Malaysia's first women-only transportation services, which was created by women for other women in the country. Personalized rides, pre-booked rides, and recurrent rides are the primary focus of this company's operations. The Pink Service is one of Malaysia's first women-only transportation services created by women for other women in the country.

- اوييون سيني تيڪنيڪل مليسيا ملاك (b) Ride Pink Order Processes: UNIVERSITI TEKNIKAL MALAYSIA MELAKA
- 1. Launch the Ride Pink app.
- 2. Enter your drop-off address.
- 3. Choose delivery or pick up.
- 4. Board on to the car.
- 5. Ride to your destination.
- 6. Complete the order and payment.
  - (c) Payment can be through the application's payment gateway using a debit card or by cash.
  - (*d*) Operating hours

The current operational hour for the aforementioned ride service is 9:30 am to 6 pm due to covid.

- (e) Pros:
- 1. Easy-to-use mobile platform.
- 2. The customer service is highly cooperative.
- 3. The response time for customer assistance is relatively rapid.
  - (f) Cons:
    - 1. Exclusively available for women only.
    - 2. Longer waiting time.

The table below views the comparison between the systems reviewed above. From the table, a few differences will be identical.

E	λ ====			' / I
Features	MyCar	Grab	Ride Pink	CarPool RestA
Target User	ل مليسيا ملا IVERSITI TEI		Residents of certain regions, mostly Klang valley	All-Hower, the service is available to residents within a particular radius.
Target Areas	All places in Malaysia	All places in Malaysia	Specified regions are mostly Klang Vally, but the business will expand to offer services in other areas.	Specified regions, but the drivers are restricted to offer their service in certain regions.
Affordability	Medium-cost	Medium-cost	Medium-cost	Low-cost
Priority-based ride	No	No	No	Yes
Price surge time	During peakhours	During peak hours	During peak hours	Never

Table 2-4 Comparison of functions between the systems

After all, there is no "one size fits all" solution. You must take into consideration the cost of the ride, the service range, and what they have to offer in addition to simply providing rides. Each has its own set of advantages and disadvantages, which are ultimately selected by customers.

#### 2.2.1.4 Domain

The domain of this project is considered under all forms of ridesharing systems. This system targets residents of Malaysia, where they can order an instant ride without any delay. This system focuses on particular types of residents in various students in Malaysia. For example, Malaysia is known to host a large number of international students. Most of these international students residing in Malaysiado possess their own transport and might face the aforesaid problems. The residents mightface the same issues as well.

#### 2.2.1.5 Technique

6

It is critical to gather information and determine the system's requirements before beginning any work. In order to gather information and conditions for the system, several ways can be employed, including comparisons with existing research, evaluations of previous research and requirements, questionnaires, interviews, and the internet. The prerequisites for CarPool RestA are acquired through interviews with residents of the UTeM and the company's workers.

### 2.3 Project Methodology

This system is being developed according to the Agile SDLC methodology concept, which is being utilized as a guide for developing this system. Iterative and incremental process models are combined in the Agile SDLC model, focusing on process adaptability and customer satisfaction through the delivery of a workable software product at a faster rate than traditional SDLC models. Agile approaches divide the product into small incremental builds, which are then combined. Iterations of these builds are made available to you. In most cases, each repetition lasts between one and two weeks in length. Every iteration entails cross-functional teams working on a variety of tasks simultaneously, including planning, requirements analysis, design, coding, unit testing, and acceptance testing, among other things. A working product is presented to the customer and other key stakeholders each iteration. Each of the steps will be completed later.



This is the process of identifying and deciding the requirements and project objectives during the first phase, which is called requirements analysis. In the following weeks, information was gathered to gain a deeper understanding of the system and help it evolve further.

During the process of compiling data, research has been carried out on various ride-sharing mobile applications to identify improvement opportunities that may be used to develop a new concept for the new system during the gathering, assessing, and to compare the information. Through the process of interviewing, the most critical requirements were determined. The interviews are performed with the participants, who are all University Technology, Malaysia students. While conducting interviews, it was discovered that the requirements of the users using the convention ride-sharing applications were not met, which made it impossible to estimate the benefits of implementing this system.

It is vital to set project objectives and assess the information needs of end-users when workingon this phase to guarantee that they are addressed. Those features will be supported from the start of the project, as well as those that will not be supported. One of the system's purposes is to make it easier for residents to book a ride without any hassle. The system is designed to compute the total amount of money that must be paid depending on the priorities of the rides. The live tracking and alerting features will be included as standard features when the programme is released in its first edition. However, all of the data must be processed in orderfor the project to meet the demand that was predicted at the outset of the project. For the project to be successful, the project requirements must be followed in the most precise manner.

### 2.3.2 Design

The design phase is primarily concerned with how the system will interact with the user, how the system will function individually, and what interface design and database design will berequired for this system. During the first iteration, the developer goes over the requirements from the previous stage again. The developer then meets with the supervisor to discuss how to best address the requirements and offers the tools that will be used to get the best possible outcome. Because the majority of our users will be on the Android and IOS platforms, we will develop our project using the Flutter framework. This also means that the programming language used in the Flutter framework is a dart. In addition, To have a clear image of the system, it is also necessary to look at the illustration and flow chart. The most crucial thing to remember is that the system must be user-friendly and should not cause confusion among those who use it.

## 2.3.3 Development and Coding

When it comes to software development, the development phase comprises the actual writing of code and the translation of design documentation into actual software products (also known as the implementation phase). Because it serves as the foundation of the entire process, this phase of the SDLC is frequently the most time-consuming step of the entire procedure. When it comes to the construction phase of this system, the tools that were proposed in the previous phase are put to use in the development of this system. In this technique, there are several processes that must be completed, including system installation and the application of codes to the system. First and foremost, it is important to complete the installation of the software that will be used to execute and arrange the system before any code can be written for integration and Testing

It is the responsibility of this stage to ensure that the application is free of problems and that it is compatible with everything else that the developer has previously created. It is the testing team's responsibility to make certain that the code is clean and that the system is provided, mitigating all the requirements, including those for its intended usage. To do so, they apply both black box and white box testing methodologies in order to carry out a series of tests. While going through the iterations and revisions of the SDLC stage, the testing becomes more extensive as the stage develops. Functional testing, systems integration testing, interoperability testing, and user acceptance testing are all included in this category, in addition to system integration testing.

### 2.3.4 Implementation and Deployment

If the CarPool RestA system has obtained positive feedback from users, it may be viable to make it available to the general public. As a result of the deployment of the programme, however, the project does not come to an abrupt end. Once the system has been deployed in the client's environment, the client may encounter new issues, which the developer will need to address and resolve as soon as possible after the system has been installed, LAYSIA



The work achieved toward achieving the requirements is reviewed by the CarPool RestA supervisor once all previous development phases have been finished to confirm that the requirements are being met. After hearing the developer's suggestions for resolving difficulties that arose during the previous phases, the supervisor examines and approves those suggestions before moving forward with implementation. Following that, the steps of the Agile software development lifecycle are re-started in order to begin a new iteration of the project.

# 2.4 Project Requirements

## 2.4.1 Software Requirements

Table 2-2 Software Requirements

Name	Description					
Operating System	Windows/Mas OS					
Google Cloud Platform	Reliable and high performance cloud service with scalable infrustucture.					
Android Studio	Andriod Stuidio version 9.0					
JDK	Minimum JDK version requirement is 8.0					
Android Emulators	API 22 and above					
Database Server	Firebase Real time DB					
Adobe Photoshop	Adobe Photoshop 2021					
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## 2.4.2 *Hardware Requirements*

Table 2-3 Hardware requirements

Name	Description
Operating System	MacOS/Windows
Processor	3.6 GHz Dual-Core Intel Core i5
Memory	16 GB 1600 MHz DDR5
Hard Disk Driver	1 TB SSD

# 2.4.3 *Other Requirements*

# 2.5 Project Schedule and Milestones

# Table 2-5 Gannt Chart

Week Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Discussion on the PSM Proposal															
Evaluation and verification of the proposal	10-														
Corrections and/or improvements to the proposal	1	2													
List of supervisor/title		25													
Presentation and summary of the proposal								Н							
Chapter 1				-											
Chapter 2	1				/										
Chapter 3	*	5				-22	S	يانىتىرى م	3	وير					
First Demo of the project	тіт	FK	NIK	ΔT	MΔ	Ι Δ'	YSI	A IV	FL	٨ĸ	Δ				
Chapter 4															
Second Demo of the project															
Presentation schedule															
-------------------------------------	---	--	--	--	--	--	--	--							
Project Demonstration															
PSM1 Report															
Final Project Demonstration and															
Presentation															
The PSM1 Report has been submitted.															
Final Project Demonstration and															
Presentation															
Chapter 5															
Chapter 6															
Chapter 7															
PSM2 Report															
Final Presentation															
The PSM2 Report has been submitted.	4														
, T	2														

## 2.6 Conclusion

An in-depth discussion of the project's methodology and planning is provided in Chapter 2, which also contains an explanation of the venture-related stages. In order to highlight the milestones and responsibilities connected with the activity, a clearly defined Project Schedule and Milestones are supplied. When it comes to creating and building the finest potential product, project methodology is a highly effective strategy to use. It is possible to create and demonstrate capabilities in a short period of time. We find the management technique to be highly beneficial because it helps us to review and improve our project as it advances through various phases and stages. Problem analysis, enhancements/solutions, and functional and non-functional requirements, among other topics, will be covered in detail in Chapter 3.

#### **CHAPTER 3: ANALYSIS**

#### Introduction

A mobile application called CarPool RestA is discussed in this chapter in a bit of depth, as well as the method of examining the creation of the application. Before developing a new system, it is critical to do a thorough analysis of the existing and proposed systems to guarantee that the new system can address the shortcomings of the existing system. It will be necessary to discuss in full the difficulties with the current system in order to do problem analysis. The topic of data needs will be covered in the analysis of requirements, which is the data that should be used as the system's input and output, as well as the data that should be held internally by the system itself. Data Structure will be utilised to demonstrate this, and then a Data Flow Diagram (DFD) will be used to demonstrate data movement between external entities, procedures, and data stores in order to meet the functional requirement. Non-functional requirements will then specify how the system will carry out the desired functionality described in the functional requirements. the other requirements, there are threesub-requirements that contain specifications for software, hardware requirements, and network requirements, respectively.

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# 3.1 Problem Analysis JNIVERSITI TEKNIKAL MALAYSIA MELAKA

As we investigate the issue, we discover that the first and most serious issue is the lack of availability of the ride at specific times of the day. Second, the drivers must be able to be alerted to the fact that their journeys are being prioritized. In order to address this issue, we have implemented an emergency ride request system. To incentivize these drivers to arrive at the rider post and take urgent requests, these drivers who accept requests on matters of emergency are entitled to a higher price than the rest of the drivers. In light of the aforementioned issues, there is an urgent need to make an attempt to develop an application because some students/office workers from less affluent families may not have

Access to their own transportation, and as a result, they have had to suffer for long periodsof time in order to get to the examination hall/office locations on time because the grab orMyCar services were too busy at certain times of the day to respond to their calls. After missing the scheduled bus service provided by the university or office and subsequently being forced to request friends and family's cars, this was a common scenario. However, these closest friends and family members were likely to be busy and thus unable to provide n assistive service in this situation.



Figure 3-1 Current Problem Flow Chart



Figure 3-2 Solution Flow Chart

#### **3.2 Requirements Analysis**

#### 3.2.1 Data Requirements

In order to become aware of and report the entities within the project scope as well asbasic information characteristics to ensure having a clear impact on the definition of the technology infrastructure, it is necessary to collect and store the necessary data. There are numerous considerations that must be made when defining information requirements, including defining entities and their attributes, determining the relationship between entities, determining the scale and volume of each entity, and defining facts safety for a number of the attributes, among others.





```
"drivers" : { "4gj8A2vnZmXDDIPccvRYpiXfDGg1" : { "car_details" : {
    "car_color" : "",
    "car_model" : "",
    "car_number" : "",
    "type" : ""
    },
    "email" ",
    "name" ",
    "newRide" ","phone" : " ",
    "token" : " "
```

```
"Client Requests" : {
"-McyzlNJ 1CkJjnpjmc" : { "detailTS_of_the_car" : " ",
"record_created_at" : " ",
"driver_id" : " ",
"driverTS_name" : " ",
"driverTS_phone" : " ",
"driverTS_location" :
{ "latitude" : " ",
"longitute" : " "
                  MALAYSIA
},
"dropOffLocation" : { "latitude" :
"longitude" : "
},
"dropOff_address" : " ",
"payment_method" : " /
"pickup" : {
"latitude" : "
                                        KAL MALAYSIA MELAKA
"longitude" : ""
},
"pickup_address" : " ",
"type_of_ride" : " ",
"riderTS_name" : " ",
"riderTS_phone" : " ",
"status" : " "
},
```

#### Table 3-4 Data structure of History Table

Trip\_History": { "-McEqKMk8Hdsuw0EIkPZ" : true, "-McEv7i8l8bKdU8GvOvU" : true, "-McG2F1aC\_G5TxBMLAsE" : true, "-McG2gizkWFyG9Dt7hER" : true, "-McGE10nMupevknzQ7tX" : true, "-McJ62NPz1YqvrqW7iFq" : true, "-McJ6Phkx9qR1fxN3QE7" : true, "-McJ7ER-qvuLMHp7cJKw" : true," -McJ97SFcGMLcf3noAhS" : true, "-McJA3fvhRLS3j9QJ9qj" : true, "-McJARKtDXs80HysKxAJ" : true," -McJAz9BJnjB7e0Q1O3D" : true, " -McJccEKGkkrzD87Sm6C" : true," -McJmQVt2x-5zkMehOhz" : true, "-McJqfU5RFOi9cFGCuCI" : true, " -McJubh9N6owHnNw-bje" : true, " -Mc\_8MlMxv6sQxaRPkrH" : true, "-McjLS8YXGNaFT4kBEbO" : true," KAL MALAYSIA MELAKA -McjSalB9bViZWvBjXvx" : true },

## 3.2.2 Functional Requirements

Functional requirements are statements that describe the services that a systemshould be able to provide. The system's functional needs are described in this area, as wellas how the system should respond to various inputs and the system's current performance state. It is the driving force behind the design of a system. The System's functional requirements will be demonstrated through the use of the Use Case.



Figure 3-3- Log in and Registration use case diagram



Figure 3-4 Priority-based ride Use Case Diagram for Rider



Figure 3-5 Priority-based ride Use Case Diagram for Driver



Figure 3-7 Level 0 Context Diagram



Figure 3-8 Level 1 Context Diagram

Table 3-5	Functional	Requirements
-----------	------------	--------------

Functiona	al Requirements	
FR No.	Requirement	Description
FR 1.1	Login	The system will allow users to log into thesystem.
FR 1.2	Registration	The system both the riders and the users toregister into the system
FR 2.1	Priority-based ride	The system will allow users to book a ride on a priority basis.
FR 2.2	Inspect range	The system will allow users to check if the preferred location falls within the restricted range.
FR 3.1	Emergency ride	The system will allow the admin to add, edit and delete hostels.
FR 3.2	Normal ride کے مالیک	The system will book a normal ride to the destination.
FR 4.1	Calculate fare SITI TEKNII	The system will calculate fares based on the distance.
FR 4.2	Cloud messaging	The cloud messaging service will be used to establish communication between a driver app and rider apps by generation tokens.
FR 5.1	Accept ride	The system will allow drivers to accept a ride.
FR 5.3	Set drop off address	The system will to set a drop off address. The pickup address will be derived using google automplete url.

#### 3.2.3 Non-functional Requirements

This type of requirement specifies how a system should behave and limits its functionality. The non-functional criteria are also sometimes referred to as system attributes. Stakeholders care about certain aspects of the system, which will have an impact on their degree of satisfaction with the system. Other criteria are those that have yet to be completed.

Non-FR No.	Requirement	Description	
Non-FR 1	Performance	The system's response time should be as quick as possible.	
Non-FR 2	Availability	The system must be free of errors in order to function properly.	
Non-FR 3	Usability	The system is simple and straightforward to use.	
Non-FR 4	Data Integrity	The information should be completely consistent.	
	*Aun		
	ڪل مليسيا ملاك 3.2.4	Other Requirements	

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- Other requirements include usage support for the software, hardware, and network requirements that will be employed in the creation of this system, as well as other technical requirements.
- This application manages passenger bookings in the quickest and most efficient manner possible. The passenger can order a vehicle with just one click on the button. Thedriver accepts or denies requests with another click and that too, on a priority basis. This workwill not be controlled by a third party. All the data will be saved in the NoSql database in firebase.

### **3.3 Conclusion**

In a nutshell, this CarPool RestA system is mainly made for students who is staying in a particular locality without the assurance of ride availability at all times of a day.CarPool RestA application is quite cost-effective in comparison to other ride-sharing applications and it does provide a marketing solution for small entrepreneurs in the long run.



#### **CHAPTER 4: DESIGN**

#### **4.1 Introduction**

It will be discussed in-depth in this chapter how the system development design will be implemented. The overall flow of the system will be discussed in this section. Following the collection of all information from the analysis phase, the developer can build the system in accordance with the requirements that were gathered previously.

#### **4.2 High-Level Design**

4.2.1 System Architecture

CarPool RestA is a system made up of servers run by an organisation as well as individuals who are linked to the system through Google cloud computing servers. In this system, all users express an interest in collaborating, which allows the system to provide authentication services. In this case, data will synchronise between users because the Cloud server connects them through the usage of Google cloud services. The following diagram depicts the fundamental architecture of this system.



The CarPool RestA system architecture is based on a three-tier design, with the lient tier, middle tier, and database tier all being components of the system. Three- tier applications are utility software or systems that are divided into three primary portions that are each distributed to a separate location or phase of a computer network. In the case of the client tier, the user seeks to access the application system using his or her phone. Google cloud server is the middle-tier component that allows the user to do various other the database server and generate a token for the user device. This token is then used to do various other operations that are available through this application.

## 4.2.2 Design Architechture

4.2.2.1 MVC Design Pattern for Rider Application:

## Figure 4-2-MVC Design architecture view for the Rider



## Controller –

- ControllerFunctions.dart -This class contains method implementations.
- GeoFire Controller.dart-This class contains methods for finding nearby drivers.
- jsonAssistant.dart- This class fetches data for places dynamically.

ControllerFunctions.dart

👗 jsonAssistant.dart

4.2.2.2 MVC Design Pattern for Driver Application:

## Figure 4-3 MVC Design architectural view for the Driver



## Controller –

- ControllerFunctions.dart -This class contains method implementations.
- GeoFire Controller.dart-This class contains methods for finding nearby drivers.
- jsonAssistant.dart- This class fetches data for places dynamically.



## 4.3 User Interface Design

## 4.3.1 Screen designs

The following are the UI designs for both the rider and the diver.



Figure 4-4 Rider's Home Page with Maps



Figure 4-5 Rider's profile





Figure 4-6 Rider's History Page



Figure 4-7 Rider's Profile Page



Figure 4-8 Rider's Application's About Page



Figure 4-9 UI to manipulate value for the radius







Figure 4-12 Setting drop off the page for rider



Figure 4-13 Rider's Booking page

Depending on the priority, the rider can either choose regular or emergencyride-type services.





Figure 4-15 Driver's Ride History









Figure 4-19 Driver's Registration Page



Figure 4-20 Driver's Car Registration Page

The driver can register the Car number, the Car model and the car color.


Figure 4-21 Driver's offline status as shown in the home page.





The drivers were busy and did not accept the ride request. This message willappear on the rider's screen after a timeout.



Figure 4-23 Driver's Online Availability Feature

The figure above shows that the driver is online, and a car marker appears on he map

## 4.3.2 Database Design

### 4.3.2.1 Logical Database Design

### (a) Entity Relationship Diagram (ERD)



Figure 4-24 Relationship Diagram (ERD)

#### (b) Business Rules

- Each user can order one or more client requests- these client requests will have user keys, driver keys, and client request keys containing user, driver and ride request information.
- Each client request is assigned and unique request key. This particular key will containall the ride request details in the form
- Each driver registers a unique driver key. The key will register all the driver details.



Figure 4-24 Create driver table



# Figure 4-25 Create Client Request table



# Figure 4.4 Create History table and insert data into the table derived from a database

```
driversRef.child(currentfirebaseUser.uid).child("history").once().then((DataS
napshot dataSnapshot)
    {
      if(dataSnapshot.value != null)
      {
        //update total number of trip counts to provider
        Map<dynamic, dynamic> keys = dataSnapshot.value;
        int ride Counter = keys.length;
        Provider.of<AppData>(context, listen: false).updateRideCountr(ride_Cou
nter);
        //update trip keys to provider
        List<String> tripHistoryKeys = [];
        keys_forEach((key, value) {
          tripHistoryKeys.add(key);
        });
        Provider.of<AppData>(context, listen: false).updateTripKeys(tripHistor
yKeys);
        obtainClientRequestsHistoryData(context);
      }
    });
  INSERT DATA INTO THE TABLE DERIVED FROM DATABASE USING THE CONSTRUCT
THE HISTORY CLASS
class History
{
  String payment;
  String recordDate;
  String status;
```

# 4.4.1 Software Design

# Figure 4-25 System Flow from The Rider's Perspective









### Figure 4-28 Node for History table below



# Description:

- The node named History an unique key for each ride trip.
- Each unique key for a particular ride is contains details registered under client Requestnode. For example,
- An Example of a details registered at a particular node is shown below:

-Mcz0AbiMWolSNN9 9vW has details of a particular ride registered in the node of adriver chosen by the rider.

#### Figure 4-29 Node for drivers table below



# 4.5 Conclusion

In conclusion, this chapter is particularly concerned with the layout of the system. The diagrams are created in order to provide a high-level overview of the system's architectural design. The diagrams depict the modules that are required for each user. NoSQL is a collection of records, content, layout, and attributes that are used to maintain the facts and details of a given situation or event.



#### **CHAPTER 5: IMPLEMENTATION**

#### **5.1 Introduction**

This section describes the activities, including the implementation phase, which focuses on using all the knowledge and information gathered in the previous stages to create the application codebased on the collected requirement and the formulated design. Thus, it is essential to carefully choose the right resources and programming languages to avoid wasting time and costs.

#### 5.2 Firebase Realtime database

In the Firebase platform, the database called the Firebase Realtime Database is hosted in the cloud. Data is saved in JSON format throughout the system, and it is synchronized in real-time across all of the connected clients. Realtime Database SDK for iOS, Android, and JavaScript applications developed with a single Realtime Database instance share a single Realtime Database instance and areautomatically updated with the most up-to-date information as soon as it becomes available.

#### 5.3 Software Development Environment setup

In system development, the development environment is a set of process and programming tools used to develop the CarPool RestA web-based application. It is essential to give full attention to the design and implementation phase to fulfill the development process requirements.

#### 5.4 Android studio

Android studio is a free source code editor made for Windows, Linux, and macOS. It is used to write the codes and commands in developing the system and building the system interface. *AndroidStudio* is Google's officially supported IDE for developing Android apps.

#### 5.4.1.1 Hardware Architecture Setup

#### Table 5-1 Hardware architecture setup

No.	Hardware	Description
1	Processor	3.6 GHz Dual-Core Intel Core i7
2	RAM	16 GB 1700 MHz DDR5
3	Storage	1 TB Solid State State Drive

#### 5.5 Software Configuration Management

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In software configuration management, tracking and regulating software changes is the process of configuration management. Concerning the broader cross-disciplinary configuration management discipline, it is part of the diverse composition management practice. Additionally, the act of managing baseline settings and revision control are two of the software management techniques that are used. Software configuration management (SCM) can assist you in figuring out which lines of code have been changed and who was accountable for that modification in the event of a problem. It's also possible to make successful configurations repeatable on large numbers of servers using software configuration management.

## 5.5.1 *Configuration environment setup*

#### 5.5.1.1 Server Configuration

For server configuration, Google Cloud platform was deployed to handle live requests from the client.All the relevant APIS have been configured as per CarPool ResA requirements in the cloud server.

Below is the list of APIs configured in this project:

**= Filter** Filter

Name	↓ Requests	Errors (%)	Latency, median (ms)	Latency, 95% (ms)
Places API	6,601	0	34	99
Directions API	1,102	0	43	110
Token Service API	242	0	71	125
Maps SDK for Android	113	0		
Geocoding API	111	2	68	125
Cloud Messaging	107	0		
Identity Toolkit API	100	32	134	405
Firebase Installations API	12	0		
Cloud Firestore API	2	0	196	255

#### Figure 5-1 List of enabled APIs in the Google cloud platfor

Description of the metrics for data processing in the server:

Median latency: As shown in the table above, the latency metric measures the total time it takes for the cloud spanner service to process a request.

The term "requests" refers to the number of requests that have been made (for the selected period). In computing the number of errors, "errors" refers to the number of unsuccessful requests. Latency (including medium latency and percentile latency) refers to the amount of time it takes for these requests to be fully processed.

The cloud spanner groups the latency data into percentiles.

For example, 95th percentile latency reads 99 ms with a median latency of 34 ms which means that the cloud spanner processes 99 percent of the requests in less than 34 milliseconds.-. This is very ideal in the context of our project since the application might deal with large pool of requests at any given the time of day. We have therefore enabled this API to process these requests.

A further study on how the aforementioned API configuration contributes to our project is described in detail the following sub-sections:

#### 5512 Token Service API-

The token number has a practical implications in our Car Pool RestA. This is important in the contextof our project because hundreds of drivers will register their devices. Each of those devices will be assigned an unique token number. Once the nearest driver is chosen, this token number is being used to send notifications to the phone of the chosen driver and thus Token Service API was to enabled to perform this service.



The driver's device is identified by the token in the driver's node:

Figure 5-2 An unique key is generated by token API is the server

Testing whether the token service API was successfully configured :

In the earlier phase of development, we used postman to configure and test this service. As shownbelow, we printed and extracted the token from the terminal of the Android studio using the raw code.



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This API was enabled from the library of the cloud server because it is essential for Google Maps todisplay data and map gesture responses. In the context of CarPool RestA, we have additionally added markers and polylines on the map. Markers pinpoint the locations of the rider and the driver and the car icons on the map are made to navigate through the polylines on the map reaching the rider. The position of the car icons are updated at real-time to produce the visual movement of the car along the polylines on the google map.



This API helps the application to verify user's identification in Google's cloud platform. In the context of CarPool Rest A, the table below shows how this API is being used to handle user credentials.

# Methods

Method 1	Requests	Errors	Avg latency	99th percentile latency 💡
google.cloud.identity toolk it.v1.Account Management Service.Get Account Info the service of t	бб	0	0.106 seconds	0.258 seconds
$google.cloud.identity toolk it.v1.Authentication Service.Sign In With {\tt Password}$	65	49.23%	0.18 seconds	0.503 seconds
google.cloud.identity toolk it.v1.Authentication Service.Sign Up	36	5.56%	0.306 seconds	0.519 seconds

Figure 5-5-Identity Toolkit API dealing with authentication features such as sign-in and sign up-

#### 5.5.1.5 Geocoding API

In general, geocoding is the process of converting a physical address into geographic coordinates on the map. In the context of our project, we used this position markers to represent these coordinates and the two polylines are connecting the two points.



Figure 5-6- Position markers represniting coordinates on the map

In order for geocoding API to be used, we have used geolocator dependencies in Flutter.

Once we have installed geolocator dependencies in our pubspec.yaml file, we can then use methods in geolocator. dart in order to enable access to platform-specific location services.

This dependencies also import Position class. This class can be used to derive detailed information of the location such as longitude, latitude ,timestamp, accuracy, speed and other metrics such as altitude and speed.

In the context of our project, we have use this Position to get the current position of both the driverand the rider.

Using this API, google cloud platform commutates with the real-time database in the backend of the application. Programmatically, this API will return a valid token for firebase installations and is called only and only if firebase installation is registered.

The figure below show this API in action for our system:

Method <b>†</b>	Requests	Errors	Avg latency
CreateInstallation	3	0	
GenerateAuthToken	11	0	
Figure 5-7 Communicatio	n between fi	rebase and Google C	loud server

In line with what we have mentioned in the Firebase API descriptions, the methods handled by this APIare now fetching requested-meaning that the Google cloud platform can now communicate with the firebase database.

#### 5.5.1.7 Cloud Fire Store API

This API is used to access the NoSql document built for automated scaling, high performance and thus enhancing the ease of application development. Using this API in our project, we called firestore.googleapis service provided in the client library. It means that the google cloud platform uses this API to execute faster queries from the database set in firebase.

# Methods

# 5.5.2 Database Configuration :

Database configuration is accomplished through the use of NoSQL firebase in realtime, which is used to configure the database and store data. Once we have created the database, we will need to configure the security rules in addition to adding maven local repositories and libraries, followed by adding dependencies in our project.



Figure 5-9- Adding local maven repositories in the project



Figure 5-10- Adding dependencies in our project

#### 5.6 Version Control Procedure

The technique of keeping track of several iterations and draughts of a document or recordis known as version control. CarPool RestA system tracks and records the various manuscript versions that are generated through drafting processes. Once the drafting process is complete, the end product is written up in final form. Finalized versions can be modified and adjusted after receiving an audit trail. To do this, procedures are now being established that describe and record the CarPool RestA document methodology system. A methodical strategy is essential to keep track of all of these changes, and hence records and documents will be uploaded, updated, and altered throughout time. The current price of work. For every document or record, start by putting it in the right location

#### 5.6.1 Version

The outline used here makes it much easier to distinguish between various document versions. When each alteration is made, the number grows. For example, the first number that appears in the process is 0.1, and then 0.2, 0.3, and so on. Once the document is authorized and marked as version 1.0, the numbersbegin increasing. 1.1 and 1.2 are widely employed in moderate changes.

### 5.6.2 *Detail:*

Detailed records for changes are recorded and can be referred to from time to time before proceeding to makefurther changes.

#### 5.6.3 *Date:*

New modifications, reviews, or approvals are all based on the date the change, review, or approval wasimplemented.

It explains the rationale for the revision in an elegant and succinct manner.

# 5.6.4 *Author:*

The change is being made by a this individual time to time as the work proceeds progressively.

Version	Date	Detail	Author
0.1	13/6/2021	The conceptual, logical, and physical database designs have been developed.	Habeeb
0.2	19/6/2021	The login and registration modules have been coded and tested to ensure that they perform properly.	Habeeb
1.0	21/6/2021	Some functionalities of both the riderand the driver applications were codedand tested.	Habeeb
1.1	UNIVERSIT	The application was integrated with firebase database. Place API was configured in google server. SIA MELA	Habeeb
1.2	31/6/2021	The user interface was improved.	Habeeb
1.3	09/7/2021	Some additional functionalities were implemented.	Habeeb
2.0	10/7/2021	The call feature was added to ease the communication between the rider and the driver.	Habeeb
2.1	13/7/2021	Most of the screens for both the rider and the driver application was finished coding.	Habeeb
2.2	13/8/2021	The bugs that occurred in the host environment have been fixed.	Habeeb
2.3	15/8/2021	Push notification services were testedusing postman.	Habeeb

# Table 5-2 Version Control Procedure

#### **5.7 Implementation Status**

This section describes the development status of each module that has been developed for this projectand the progress that has been made.

No.	Module	Description	Duration to complete	Date completed	Size of software and source code files
1	Login		1 days	19/8/2021	383 KB
2	Registration		1 days	20/8/2021	127KB
3	Locate Rider's Are Position	IA He	2 days	22/8/2021	6 MB
4	Ride Request	NK	2 days	24/8/2021	43 MB
5	Calcuate fare based on distance		3 days	27/8/2021	67 MB
6	Book an emergency ride		4 days	31/8/2021	143 MB
7	Book a normalride	1010	3 day	02/9/2021	153 MB
8	Set radius	in o	1 days	03/9/2021	156 MB
9	Pay Fare VERSI	TI TEKNIK	5 days	8/9/2021	223 MB
10	StatisticalAnalysis		1 day	9/12/2021	163 KB

#### Table 5-3 Implementation Status

#### **5.8** Conclusions

Finally, this chapter discussed the project's software configuration, development environment, version control procedure, and implementation state, as well as the project's implementation status. Besides, we have put in a valid effort to demonstrate how these configuration was used in the context of our project. This chapter covers the key points in order to ensure a poround understanding of server and databse configuration.

#### **CHAPTER 6: TESTING**

#### **6.1 Introduction**

The testing in this chapter is used to verify if the system is in agreement with the system state's prerequisite need, as per the system's aim. The system is put through paces on a fully embedded system to make sure it upholds the criteria given to it. Tested environments, implementation timeline, strategy, and others will determine how rigorously to test this approach.

#### 6.2 Test Plan

A test plan is a written document that describes the scope and actions of software testing. It serves as the foundation for formally testing any program that is part of a project. A test plan outlines the procedure to be followed in order to verify and ensure that a system satisfies its design criteria and other requirements. The majority of the time, a test plan is created by or with significant participation by test technicians.



Test organization explains the individual activity of testing.

Table 6-1 Test Organization			
Tester ID	Testing Member	Testing Activity	
TS01JNIVE	R Habeeb E Sadeed AL MAL	Unit Testing	
TS02	Kazi Ashiqur Rahman	Integration Testing	
TS03	Shafeine Shahriar	System Testing	
TS04 - TS19	50 Participants	User Acceptance Testing	

#### 6.2.2 *Test Environment*

It is necessary to build up a test environment consisting of software and hardware in order for testing teams to carry out test instances during the preceding testing operation. The database server, the network, and the emulator are just a few of the major fields to configure.

No.	Software/Hardware Tool	Specification
1	Server	Google Cloud platform
2	Database	Firebase Realtime Database in communication with cloud patform server.
3	Emulator	Virtual emulator of of API 17 and above
4	Operating System	MacOS/Windows
IT TEKN	6.2.3 Test S	chedule

#### Table 6-2 Test Environment

The test schedule is a timeline that includes test schedules. For every system, every modulespecific tests have been completed. The details of the testing process arefound in Table 6.3.

# UNIVERSITI Table 6-3 Test Schedule SIA MELAKA

Testing type	Description	Start Date	End Date
Unit Testing	Make certain that the system is coded appropriately, and it will perform the desired function.	23rd July 2021	29th July 2020
Integration Testing	Examine the system'suser interface.	31 <sup>st</sup> July 2021	2 <sup>nd</sup> August 2021
System Testing	Determine whether the system meets thecriteria	3 <sup>rd</sup> August 2021	7 <sup>th</sup> August 2021

#### 6.3 Test Strategy

The test strategy serves as the foundation for estimating the length and cost of the testing attempts at the level of confidence required for the business case. This system or project will be tested using both white box and black box methodologies. When it comes to software testing, the white box method is used to analyze an application's internal functioning structure and identify any potential design flaws. 'Black box testing is a broad term that refers to a range of approaches for checking software from the outside without assessing the source code.

#### Classes of tests 6.3.1

Three classes of tests were used to assess the system's efficiency as shown in the latter section of this chapter. These classes were named <u>Test Class A</u>, <u>Test Class B</u> and <u>Test Class C</u> respectively. Each of these classes constitutes of several test cases inorder to evaluate the project's output. The application widgets were also tested. The tester may or may not be familiar with the software modules contained within the features under tests, such as a data structure or a control variable. As a result, when testing the project, both the white box point of view and the black box point of view are applicable. The concepts of black box and white box testing are not confined to merely correctness testing.

6.3.2 Black Box Testing An approach known as the "black box" technique has the following characteristics: first, Test Data/Test Requirements are created from established functional requirements without regard to the overall programme structure; and second, this method does not test a programme from start to finish. This kind of testing is called data-driven, input/output-driven, and requirements-based testing. Black box testing is also commonly used to refer to verifying the functionality of a software module on its own. This approach placed a heavy emphasis on executing the procedures and recording the results as both input and output. Testers often use the black box metaphor while testing software. The only wayto establish how something functions are to look at the results of the inputs to which it is given. In order to evaluate whether the output is correct, many inputs are tried and the results compared to the specification. It is needed for all of the test cases that are derived from partitioning that the programme structure is known. The testing plan should comprise a combination of black-box and white-box procedures, in addition toblack-box testing and white-box techniques.

#### 6.3.3 White Box Testing

In contrast to black-box testing software, which is viewed as a white box or glass box in white box testing, the structure and flow of the software under test is visible to the tester in white box testing. Testing plans are created in accordance with software implementation specifics, such as programming language, logic, and styles, and the test cases are produced from the programme structure; they are referred to as testing specifications. Glass box testing, logic-driven testing, and design-based testingare all terms used to describe white box testing. It is possible that the tester will be hesitant to use random testing as a testing approach.

The selection of the test cases is clear and simple: a random tester is selected. The same extremely subtle faults can be discovered at a modest cost. Furthermore, it is not less effective in terms of coverage than other professionally developed testing methodologies. A reliability estimate can also be obtained by the tester using random testing results that are based on the operational profile. Combining random testing withother testing techniques in an efficient manner may result in more robust and cost- effective testing procedures than either methodology alone.

#### 6.4 Test Design

Test Data/Test Requirements are provided in the test design, which follows thetest description. Test descriptions included explanations of test cases as well as expected results. Test Data/Test Requirements, on the other hand, were used to describe the user acceptance test.

# 6.4.1 *Test Description*

Three classes of tests have been defined as shown in the table below:

# Table 6-4 Test data for Coverage

Classes of	Coverage descriptions	Test Case ID's
tests		
Class A(21	All 21 sites falls within 500-meter radius	TS_101 to TS_122
locations)		
Class B(20 locations)	All 20 sites fall within an 1100-meter radius	TS_123 to TS_142
Class C(10 locations)	All 10 sites fall within an 1100-meter radius	TS_143 to TS_152
1	ALAYSI.	

- TS\_1 to TS 100 conducts tests on all the application widgets on the **<u>Rider's app</u>** and is therefore termed as uncategorized. since this class of tests is non-significant in the context of conducting tests on an application operating in an area restricted.
- TS\_153 to TS 170 conducts tests on all the application widgets on the <u>Driver's app</u> and is therefore termed as uncategorized, since this class of tests is non-significant in the context of conducting tests on an application operating in an area restricted.

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As stated in the table above, a total of 51 locations was chosen to perform the key testing tasks in our project..

# Table 6-5-Test data

Test Case ID	Test Case Description	Expected Result
TS_1	For the rider's application, verify login with an incorrect email format.	The system should display an error message
TS_2	For the rider's application, verify login with an unregistered email.	The system should display an error message
TS_3	For the rider's application ,verify login empty email and an empty password.	The system should display an error message
TS_4	For the rider's application, verify login with an empty password only.	The system should display an error message
TS_5	For the rider's application, verify login with a valid email and a valid password.	The user should be able to login.
TS_6	For the rider's application, verify login with an email not containing "."	User should be not be able to login
TS_7	For the rider's application, verify whether all the fieldis in the registration page accepts all valid data to register an user., S verify registration module by hitting register button and at the same time keeping all the fields empty.	User should be not able to login IA MELAKA
TS_8	For the rider's application, verify registration with all fields empty.	The system should display an error message.
TS_9	For the rider's application, verify whether the correct length for the phone value is 10	User should be able to login
TS_10	For the rider's application, verify whether the phone field accepts are characteror non integer values.	The system should display an error message.
TS_11	For the rider's application, verify whether the phone field accepts the length of digits below 10.	User should be not beable to login

TS_12	For the rider's application, verify whether the emailfields accept an email without at "@"	The system should display an error message
TS_13	For the rider's application, verify whether the email contains "@" but does not contain "." is acceptedin this field.	The system should display an error message
TS_14	For riders application, verify whether the password has eight characters in length.	User should be able tologin
TS_15	For the rider's application, verify whether the password contains a mixture of uppercase, lower case ,numbers and special characters where at least one of these criteria is missing.	The system should display an error message.
TS_16	For the rider's application, verify whether the password contains a mixture of uppercase,lower case ,numbers and special characters where at least one of these criteria is missing.	The system should display an error message.
TS_17	For the rider's application, verify whether the password contains a mixture of uppercase, lower case , numbers and special characters where at least one of these criteria missing	The system should display an error message.
TS_18	For the rider's application, verify whether the password contains a mixture of uppercase, lower case ,numbers and special characters where at least one of these criteria is missing.	The system should display an error message.
TS_19	For the rider's application, verify whether all the field in the registration page accepts all valid data to register an user.	The system should display an error message.

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TS_20	Verify whether a Hamburger icon is clickable and doesopening a drawer.	Should be clickable: Yes Should perform the action as stated: Yes
TS_21	Verify whether my location icon is clickable and can locate the correct position of the rider.	Should be clickable: Yes Should perform the action as stated: Yes
TS_22	Verify whether the zoomcontrol panel panels are enabled on the map.	Should be clickable: Yes Should perform the action as stated: Yes
TS_23	Verify whether the search box is clickable and directsthe user to a new page.	Should be clickable: Yes Should perform the action as stated: Yes
TS_24	For the rider's application, verify whether a back button widget is clickableand directs the user to the previous page .	Should be clickable: Yes Should perform the action as stated: Yes
TS_25	For the rider's application, verify whether the text field for the address bar page is disabled.	Should be clickable: Yes Should perform the action as stated: No
TS_26 🕕	For the rider's application, verify whether s the backbutton it's clickable and directs the user to the previous page.	Should be clickable: Yes Should perform the action as stated: Yes
TS_27	For the rider's application, verify whether the location text field in the set range field is clickable.	Should be clickable: Yes Should perform the action as stated: No
TS_28	For the rider's application, verify whether a select text field is highlighted ontapping.	Should be clickable: Yes Should perform the action as stated: No
TS_29	For the rider's application, verify whether a selected text field is highlighted on tapping.	Should be clickable: Yes Should perform the action as stated: Yes
TS_30	For the rider's application, verify whether a selected text field is highlighted on tapping.	Should be clickable: Yes Should act as stated: Yes

TS_31	For the rider's application, verify whether a selected text field is highlighted on tapping.	Should be clickable: Yes Should perform the action as stated: Yes
TS_32	For the rider's application, verify whether the emailfield pops up a suitablekeyboard type.	Should be clickable: Yes Should perform the action as stated: Yes
TS_33	For the rider's application, verify whether the password field pops up asuitable keyboard type.	Should be clickable: Yes Should perform the action as stated: Yes
TS_34	For riders application, verify whether a selected text with widget navigates to anew page on tapping.	Should be clickable: Yes Should perform the action as stated: Yes
TS_35	For the riders application, verify whether a selected text with a widget navigatesto a new page on tapping	Should be clickable: Yes Should perform the action as stated: Yes
TS_36	For the rider's application, verify whether a certain textfield is clickable and is focused on being tapped.	Should be clickable: Yes Should perform the action as stated: Yes
TS_37	For the rider's application, verify whether a certain textfield is clickable and focused on tapping.	Should be clickable: Yes Should perform the action as stated: Yes
TS_38	For the rider's application, verify whether a certain text field is clickable and is focused on being tapped.	Should be clickable: Yes Should perform the action as stated: Yes
TS_39	For the rider's application, verify whether a certain text field is clickable and is focused on being tapped	Should be clickable: Yes Should perform the action as stated: Yes
TS_40	Verify whether password unmasks itself upon clickingthe visibility icon.	Should be clickable: Yes Should perform the action as stated: Yes

TS_41	For the rider's application, verify whether a certain textfield pops up an appropriate keyboard type.	Should be clickable: Yes Should perform the action as stated: Yes
TS_42	For the rider's application, verify whether a certain text field pops up and appropriate keyboard type	Should be clickable: Yes Should perform the action as stated: Yes
TS_43	For the rider's application, verify whether a text field pops up and appropriate keyboard type.	Should be clickable: Yes Should perform the action as stated: Yes
TS_44	For rider's applicationverify whether a text field pops up an appropriate keyboard type.	Should be clickable: Yes Should perform the action as stated: Yes
TS_45	For the rider's application, verify whether a visibility icon is clickable and unmasks the containing text in the selected text field.	Should be clickable: Yes Should perform the action as stated: Yes
TS_46	Verify whether the application user's home falls within the radius of 50 meters.	The area should be found within the statedcoverage.
TS_47	Verify whether a radius can be adjusted to ensure that the test location 1 falling in the range set	The area should be found within the set range.
TS_48	Verify whether test location 1 is found in thedrop off page after manipulating the radius.	The area should be found within the set range.
TS_49	Verify whether test location 1 can be found inthe drop of page after theradius.	The area should be found within the set range.
TS_50	Verify whether test location 2 is found within 500 meters.	The area should be found within the set range.

TS_51	Verify whether test location 3 is found within 500 meters	The area should be found within the set range.
TS_52	Verify whether test location 4 is found within 500 meters	The area should be found within the set range.
TS_53	Verify whether test location 5 is found within 500 meters	The area should be found within the set range.
TS_54	Verify whether test location 6 is found within 500 meters	The area should be found within the set range.
TS_55	Verify whether test location 7 is found within 500 meters	The area should be found within the set range.
TS_56 = 	Verify whether test location 8 is found within 500 meters	The area should be found within the set range.
TS_57	Verify whether test location 9 is found within 500 meters	The area should be found within the set range.
TS_58	Verify whether test location 10 is found within 500 meters	The area should be found within the setrange.
TS_59	Verify whether test location 11 is found within 500 meters	The area should be found within the setrange.
TS_60	Verify whether test location 12 is found within 500 meters	The area should be found within the setrange.
TS_61	Verify whether test location 13 is found within 500 meters	The area should be found within the setrange.
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TS_62	Verify whether test location 14 is found within 500 meters	The area should be found within the set range.
TS_63	Verify whether test location 15 is found within 500 meters	The area should be found within the set range.
TS_64	Verify whether test location 16 is found within 500 meters	The area should be found within the set range.
TS_65	Verify whether test location 17 is found within 500 meters	The area should be found within the set range.
TS_66	Verify whether test location 18 is found within 500 meters	The area should be found within the set range.
TS_67	Verify whether test location 19 is found within 500 meters	The area should be found within the set range.
TS_68	Verify whether test location 20 is found within 500 meters	The area should be found within the set range.
TS_69	Verify whether test location 21 is found within 500 meters	The area should be found within the set range.
TS_70	Verify whether test location 22 is found within 500 meters.	The area should be found within the set range.

TS_71	Verify whether the radius can be manipulated for extended coverage and verify whether test location 23 falls within that range.	The radius should be incremented or decremented.
TS_72	Verify whether test location 24 is found within 1100 meters.	The area should be found within the set range.
TS_73	Verify whether test location 25 is found within 1100 meters.	The area should be found within the set range.
TS_74	Verify whether test location 26 is found within 1100 meters.	The area should be found within the setrange.
TS_75	Verify whether test location 27 is found within 1100 meters.	The area should be found within the setrange.
TS_76	Verify whether test location 28 is found within 1100 meters	The area should be found within the setrange.
TS_77 U	Verify whether test location 29 is found within 1100 meters.	The area should be found within the set range.
TS_78	Verify whether test location 30 is found within 1100 meters.	The area should be found within the setrange.
TS_79	Verify whether test location 31 is found within 1100 meters.	The area should be found within the set range.
TS <u>80</u>	Verify whether test location 32 is found within 1100 meters.	The area should be found within the set range.

TS_81	Verify whether test location 33 is found within1100 meters.	The area should be found within the set range.
TS_82	Verify whether test location 34 is found within 1100 meters	The area should be found within the setrange.
TS_83	Verify whether test location 35 is found within 1100 meters.	The area should be found within the set range.
TS_84	Verify whether test location 36 is found within 1100 meters.	The area should be found within the setrange.
TS_85	Verify whether test location 37 is found within 1100 meters.	The area should be found within the setrange.
TS_86	Verify whether test location 38 is found within 1100 meters.	The area should be found within the set range.
TS_87 	Verify whether test location 39 is found within 1100 meters	The area should be found within the setrange.
TS_88	Verify whether test location 40 is found within 1100 meters.	The area should be found within the set range.
TS_89	Test Case ID- TS_88:Verify whether test location 41 is foundwithin 1100 meters.	The area should be found within the setrange.
TS_90	Verify whether test location 42 is found within 1100 meters.	The area should be found within the setrange.

TS_91	Verify whether test location 43 is found within 5000 meters.	The area should be found within the setrange.
TS_92	Verify whethertest location 44 is found within 5000 meters.	The area should be found within the set range.
TS_93	Verify whether test location 45 is found within 5000 meters.	The area should be found within the setrange.
TS_94	Verify whether test location 46 is found within 5000 meters.	The area should be found within the setrange.
TS_95	Verify whether test location 47 is found within5000 meters	The area should be found within the set range.
TS_96	Verify whether test location 48 is found within 5000 meters.	The area should be found within the set range.
TS_97	Verify whether test location 49 is found within 5000 meters.	The area should be found within the set range.
TS_98	Verify whether test location 50 is foundwithin 5000 meters.	The area should be found within the set range.
TS_99	Verify whether test location 50 isfound within 5000 meters.	The area should be found within the set range.

TS_100	Verify whether test location 51 isfound within 5000 meters.	The area should be found within the set range.
TS_101	Verify whether test location 1 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_102	Verify whether test location 2 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_103	Verify whether test location 3 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_104	Verify whether test location 4 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_105	Verify whether test location 5 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_106	Verify whether test location 6 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_107	Verify whether test location 7 is either withinthe 50-meter radius or 5000 meter radius or both	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_108	Verify whether test location 8 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be found within 5000 meters.
TS_109	Verify whether test location 9 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.

TS_110	Verify whether test location 10 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_111	Verify whether test location 11 is either withinthe 50-meter radius or 500-meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_112	Verify whether test location 12 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_113	Verify whether test location 13 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_114	Verify whether test location 14 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_115	Verify whether test location 15 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be foundwithin 5000 meters.
TS_116	Verify whether test location 16 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area shouldbe found within 5000 meters.
TS_117	Verify whether test location 17 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be found within 5000meters.
TS_118	Verify whether testlocation	The area should not be found within 50 meters but the same area shouldbe found within 5000 meters.

TS_11	19	Verify whether test location 19 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area shouldbe found within 5000 meters.
TS_12	20	Verify whether test location 20 is either withinthe 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area should be found within 5000meters.
TS_12	21	Verify whether test location21 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area shouldbe found within 5000 meters.
TS_12	22	Verify whether test location22 is either within the 50-meter radius or 5000 meter radius or both.	The area should not be found within 50 meters but the same area shouldbe found within 5000 meters.
TS_12	23	Verify whether test location 23 is either within the 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_12	24	Verify whether test location 24 is either withinthe 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area should be found within 5000meters.
TS_12	25	Verify whether test location 25 is either withinthe 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area should be found within 5000meters.

TS_126	Verify whether test location 26 is either within the50-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_127	Verify whether test location 27 is either withinthe 500-meter radius or 5000 meter radius or both.	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_128	Verify whethertest location 28 is either within the 500-meter radius or 5000	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_129	Verify whether test location 29 is either withinthe 500-meter radius or 5000 meter radius or both.	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_130	Verify whether test location 30 is either withinthe 500-meter radius or 5000 meter radius or both.	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_131	Verify whether test location 31 is either within the 500-meter radius or 5000 meter radius or both	The area should not befound within 500 meters but the same area should be found within 5000 meters.
TS_132	Verify whether test location 32 is either within the 500-meter radius or 5000 meter radius or both	The area should not befound within 500 meters but the same area should be found within 5000 meters.
TS_133	Verify whether test location 33 is either within the 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.

TS_134	Verify whether test location 34 is either within the 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_136	Verify whether test location 36 is either withinthe 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_137	Verify whether test location 37 is either withinthe 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_138	Verify whether test location38 is either within the 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_139	Verify whether test location 39 is either within the 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_140	Verify whether testlocation 40 is either within the 500-meter radiusor 5000 meter radiusor both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.

TS_141	Verify whether test location 41 is either withinthe 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_142	Verify whether test location 42 is either withinthe 500-meter radius or 5000 meter radius or both.	The area should not be found within 500 meters but the same area shouldbe found within 5000 meters.
TS_135	Verify whether test location 35 is either withinthe 500-meter radius or 5000 meter radius or both	The area should not be found within 500 meters but the same area should be found within 5000meters.
TS_143	Verify whether test location 43 is either withinthe 500-meter radius or 1100-meter radius or both.	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.
TS_144	Verify whether test location 44 is either within the 500-meter radius or 1100-meter radius or both.	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.
TS_145	Verify whether test location 45 is either within the 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.
TS_146	Verify whether test location 46 is either within the 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.
TS_147	Verify whether test location 47 is either withinthe 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.
TS_148	Verify whether test location 48 is either within the 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.

TS_149	Verify whether test location 49 is either within the 500-meter radius or 1100-meter radius or both	The area should not befound within 500 meters but the same area should be found within 1100 meters.
TS_150	Verify whether test location 50 is either within the 500-meter radius or 1100-meter radius or both	The area should not befound within 500 meters but the same area should be found within 1100 meters.
TS_151	Verify whether test location 51 is either within the 500-meter radius or 1100-meter radius or both	The area should not befound within 500 meters but the same area should be found within 1100 meters.
TS_152	Verify whether test location 52 is either within the 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the same area shouldbe found within 1100 meters.
TS_153	Verify whether test location 53 is either within the 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the same area should be found within 1100meters.
TS_154	Verify whether test location 53 is either s within the 500-meter radius or 1100-meter radius or both	The area should not be found within 500 meters but the samearea should be found within 1100 meters.
TS_155	For the driver's application ,verify login Empty emailand empty password.	The system should displayan error message
TS_156	For the driver's application, verify login with an emptypassword only.	The system should displayan error message
TS_157	For the driver's application, verify registration keepingall the fields' value empty.	The system should displayan error message
TS_158	For the driver's application, verify registration with allfields empty.	The system should displayan error message
TS_159	For the driver's application, verify whether the correctlength for data is 10.	The system should acceptthis input.

TS_160	For the driver's application, verify whether the phone field accepts are characteror non integer values.	The system should displayan error message
TS_161	For the driver's application, verify whether the phone field accepts length of digits below 10.	The system should display an error message.
TS_162	For the driver's application, verify whether the emailfields accept an email without at "@"	The system should display an error message.
TS_163	For the driver's application, verify whether the email contains "@" but does not contain "." is acceptedin this field.	The system should displayan error message.
TS_164	For the driver's application, verify whether the passwordhas 8 characters in length.	The system should acceptthis input.
TS_165	For the driver's application verify whether the passwordcontains a mixture of uppercase, lower case,numbers and special characters where at least one of these criteria ismissing.	The system should display an error message اونیور سید
TS_166	For the driver's application verify whether the passwordcontains a mixture of uppercase, lower case,numbers and special characters where at least one of these criteria is missing.	The system should displayan error message
TS_167	For the driver's application verify whether the passwordcontains a mixture of uppercase, lower case,numbers and special characters where at least one of these criteria is missing.	The system should displayan error message

TS_168	For the driver's application, verify whether the passwordcontains a mixture of uppercase, lower case,numbers and special characters where at least one of these criteria is missing.	The system should displayan error message
TS_169	For the driver's application verify whether the passwordcontains a mixture of uppercase, lower case,numbers and special characters where at least one of these criteria ismissing.	The system should displayan error message
TS_170	For the driver's application, verify whether all the fields on the registration page accept valid inputs.	The system should displayan error message

## 6.5 Test Data/Test Requirements

Test C	ase ID- TS_1: For	the rider's application, verify login w	ith an incorrect email format.
Steps	Test Steps	Test Data/Test	Actual Result
1	1	Requirements	
1	Navigate to the	Email:testemail	Email address is not
	login page.	Password:Abc12345@	in a valid format.
2	Insert an email	Test email field with an incorrect	Screenshot of the
<b>–</b>	with an	email format not containing @.	
	incorrect format.	Screenshot of the test steps:	test output below:
		- 40	1
3	Insert a valid	Email	tetenal
	password	testemail D	hanger.
	F	Password	
	E.		
		Login	
			Do not have an account.Register Here.
	51	Value Sico	A Start Barrie
			اويوم، سيکي
			Email address is not in contect format
4	Press the login	IVERSITI TEKNIKAL MALA	YSIA MELAKA
1	button.		
Test C	ase ID- TS 2-For	the rider's application, verify login wi	th an unregistered email.
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the	Use unregistered email and a valid	Failed to login to the
	Login page.	password.	firebase database-
2	Enter a wrong	Email:wrongemail@gmail.com	unable to match any
	email not	Password: Abc12345@ Screenshot of	
	registered among	the test steps.	of the data in the list
	in the		
	ni uic database	enal wrongemail@gmail.com	of registered users
3	Enter any	Paumont	The error message
5	nassword in	······································	
	valid format i.e	Lotte	
	,a mix of	Login	
	uppercase,		says, "Sorry either
	lowercase and		
	special		the email or password is not
	characters.		

## Table 6-6 Test Data/Test Requirements

4	Press Login		
5	Button Navigate to		valid Please try again "
5	Login page.		vand. I lease try again.
			Screenshot of the output below:
			treal -
			wrongemall@gmail.com
			Login
			Do not have an account Register Here.
			Sony, either the email or the password is not valid Please retry
		WALATSIA MA	
	1		
Test C	and ID 52 (East th	P miden's annihistion worify login Error	ty avail and among a page and
Test C	ase ID- 55 .For u	le fider s'application, verify login Emp	ity eman and empty password.
Steps	Test Steps	Test Data/Test Requirements:	Actual Result
1	Navigate to the	Email:null Password:null	The error message pops up "Sorry both
		كنكا مليسيا مل	email & Password is required."
		0	Screenshot of the test output below:
	UN	Password: The password field is left	YSIA MELAKA
		empty.	
			Email Password
		Screenshot of the test steps:	
			Login
			Do not have an account Register Here.
			Sorryboth email & Password is required.
		Email	
		Password	
		Login	
		Do not have an account.Register Here.	
2	Leave the email		
	field blank		
3	Leave the		
	password field		
	blank.	J	

4.	Press the login button		
Test C	ase ID- TS_4:For	the rider's application, verify login wi	th an empty password only.
Steps	Test Steps	Test Data/Test Requirements:	Actual Result
1	Navigate to the login page.	Email:testingemail@gmail.com Password: null	An error message is displayed, and it says, "Password is mandatory."
		Test Password field with a null value. Key in a valid email in the email field.	Screen shot of the test output:
		Test both the email and password fields with a valid email and null	Enul testingemal@gmail.com Password
2	Enter valid email	values for the password	Login
3	Leave the password field blank.	Screenshot of the test steps:	Do not have an abcount Register Here.
4	Press the "Login" button		Password is Mandatory
	بلك		اونيومرسيتي ت
	UN	IVERSITI. TEKNIKAL MALA	YSIA MELAKA
Test C	ase ID- TS_5:For	the rider's application, verify login wi	th a valid email and a valid password.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to	Email:testingemail@gmail.com	A success message pops up saying,

1	Navigate to	Email:testingemail@gmail.com	A success message pops up saying,
	Login Page	Password:Abc12345@	"You are logged in now".
		Test email field with email in the	Screenshot of the test output below
2	Enter valid email	correct format and key in a valid	-
3	Enter valid	password.	
	password		

4	Press the "Login" button	Test Data/Test Requirements for an email in these is the registered user.	Hi Good day Please chose you destination:
		Screenshot of the test steps:	Q Search Area in the viscinity
		teol Iedingemail@gmail.com Passed	L, Lorong Setia 1, Taman Ayer Kerch Heights, Melaka Your Horn addesse Your are Logged In Now Your Office Address
		Login	< 0 E
		Do not have an account Register Here.	

Test Case ID- S6-For the rider's application, verify login with an email not containing "."

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to login page.	Email: testingemail@gmail.com Password: Abc12345@	Email address is invalid.
2	Enter an email with an incorrect format not containing "."	Test the email field with an incorrect email format. Email should not contain "." Key in a valid password with a	Screenshot of the test output:
3	Enter valid password	correct format. Screenshot of the test steps:	Login 1 2 3 4 5 6 7 8 9 0 g w e r t y u i o p a s d f g h j k l Email address is not in correct format VSIA MELAKA

 Test Case ID- TS\_7: For the rider's application, verify registration keeping all the fields' value verify.

 Steps
 Test Steps

 Test Steps
 Test Data/Test Requirements

 Actual Result

 1
 Navigate to

An error message is displayed

Navigate to	Name:null	An error message is displayed
Registration	Phone:null	saying, "All the fields are
Page.	Email:null	required.Please key in your data."
	Password:null	Screenshot of the test output below:
		•

2	Leave the name field empty.	Screenshot of the test steps:	Name Phone
3	Leave the password field blank.	Name	Password
4	Leave the email field empty.	Phone	Register Now All fields are required. Please key in your data to register details
5	Leave the phone field empty.	Password Register Now Already have an account.Login Here.	
Test C	ase ID- TS 8: Fo	The rider's application. verify registr	<b>The second seco</b>
empty	except the name	field.	او بية مر سيت ر ب
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to registration page.		An error message is displayed saying, "All fields are required.
3 4	Leave the phone field blank. Leave the email	Name: Habeeb E Sadeed Phone: null	Please key in your data to register details. Screenshot of the test output below:
	field blank.	Email:null Password:null	Name Habeeb E Sadeed
5	Leave the password field blank.		Email Password Register Now All fields are required. Please key in your data to register details

Name Habeeb E Sadeed
Phone
Email
Password

Test Case ID- TS\_9:For the rider's application, verify whether the correct length for the phone data is 10.

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the registration page.	Phone:0146116618 Screenshot of the test steps:	An error message is displayed says, "All
2	Leave the name field blank.		fields are required. Please key
3	Fill in the field for the phone.	Name Blank 0146116618	in your data to register details". Screenshot of the testoutput below:
4	Leave the email field blank.	Register Now VERSIT TEKNIKAL MALA	Image: Ctrip of Constraints         Prove         Password         Register Now         Already have an account Login Here.         All fields are required Please key in your data to register details
5	Leave the password field blank		

Test Case ID- TS\_10:For the rider's application, verify whether all the field is in the registration page accepts all valid data to register an user., verify whether the phone field accepts character or non-integer values.

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1		Key in a non integer values in the	An error message is
		phone field.	displayed says "The

2	Leave the name field blank.	Phone:abc ]	field for the phonemust contain numbers".	
3	Fill in the field	Screenshot of the testoutput:		
	for the phone.			
			Screenshot of the test	
		Name	output below:	
		Phone abc	Name	
4	Leave the email	Email	Allow and a second seco	
	field blank.	Password	Password	
		Register Now	Register Now	
	Leave the	Already have an account.Login Here.	Already have an account Login Here.	
5	password		The field for the phone must contain numbers	
	field blank.	MALAYSIA		
	2			
	E.	KA		
	F			
Test C	ase ID- S11:For the	he rider's application, verify whether the	he phone field accepts	
length Steps	Of digits below 10 Test Steps	J. Test Data/Test Requirements	Actual Result	
ысры	A straight s			
1	Navigate to the	Key in a phone number for which the	An error message is displayed	
	registration page.	<pre></pre>	digits".	
2	Leave the name	Phone: 01461166		
	field blank		Screenshot of the testoutput below:	
		Screenshot of the test output:	beteenshot of the testoutput below.	
			Name .	
		Name	Phone 01461166	
		Prove 01461166	Email	
		Email	Password	
		Password	Ctrl) •	
		Register Now	Register Now	
			Already have an account Login Here.	
		Aiready have an account.Login Here.	Phone number must be 10 digits	
3	Fill in the field			
	rer une priorie.			

4	Leave the email		
	field blank		
5	Leave the		
	password field		
	blank		
Test C	ase ID- TS_12:Fc	or the rider's application, verify whether	er the email fields accept an email
withou	ut at "@"		
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to	Email: testemailgmail.com	The error message is displayed saying
	register		"Email address is not in correct
	page.	Key in the value for this field. The	format".
		value should not contain "@".	Screenshot of the testoutput below:
2	Leave the name	Screenshot of the test steps:	
	field blank.		
3	Leave the phone	Name	Name
-	field blank.	Phone	Phone
4	Fill the the field	Email	trail feitingemail.com
	for email.	Testingemailgmail.com	Password
5	Leave the	Password LAYSIA	
	password field		Register Now
	blank.	Register Now	and the second s
6	Press the	2	Arready have an account Login Here.
	"RegisterNow"	Aiready have an account Login Here.	Email Address is not in correct format.
	button.		
	0		
		Mainn	
	sh		· · · · · ·
		یکسیک میست مار	اويوم سيى ب
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Test Case ID- TS\_13:For the rider's application, verify whether the email contains "@"but does not contain "." is accepted in this field.

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to	Email:	The error message is displayed saying
	registerpage	testemail@gmail.com	"Email address is not in correct
			format." Screenshot of the testoutput
2	Leave the		below:
_	namefield	Key in the value for this field	Name
	nameneiu	Key in the value for this field	Phone
	blank.	containing <i>w</i> but excluding .	essenter all@gmailcom
3	Leave the	-	Password.
	phonefield	Screenshot of the test steps:	Register Now
	blank.	servensilor of the test steps.	Already have an account.Login Here.
1	I eave the	-	Email Address is not in correct format.
Π.			
	emailfield		
	blank.		

5	Leave the password field blank. Press the "Register Now"	Name Phone Erral testemail@gmailcom Password Register Now	
Test C	button. ase ID- TS 14·Fc	Afready have an account.Login Here.	password has 8
charac	ters in length.		I man in the second s
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to registerpage.	Test if the password of below 8 characters in length is valid.	The error message pops up saying "The password must be atleast 8 characters in length."
2	field blank.	Password:Abc1234 (7 characters).	Screenshot of the testoutput below:
3	Leave the phone field blank.	Screenshot of the test steps:	
5	field blank. Fill in the field for thepassword.	يكنيكل مليسيا مناو Pone WERSITI TEKNIKAL MALA	Proc Sta MELAKA Abet234
		Register Now	Already have an account Login Here. Password must be atleast 8 Charachters
6	Click on the "RegisterNow" button.		
Test C	ase ID- TS_15 :Fo	or the rider's application, verify whether umbers and special characters where a	er the password contains a mixture of t least one of these, criteria is
missin	g.	special characters where a	
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to registrationpage.	Test if the password contains the mixture of upper case letters,lower	The error message pops up saying "Thepassword must be a
2	Leave the name	case letters, number and a special	mix of numbers, upperand lower case

	field blank.	characters.	characters."
		Key in an alphanumeric value for the password with no uppercase characters.	Screenshot of the testoutput below:
3	Leave the phone field blank.	Password: abc12345(8 characters and no upper case). Screenshot of the steps below:	Email Instant abc12345 Register Now
4	Leave the email field blank.	Phone Email Persent abc12345	Already have an account.Logh Here. Password must be a mix of numbers, spper case & lower case charachters
5	Fill in the password field.	Register Now Already have an account.Login Here.	
6. Test C	Click on the "Registerbutton" ase ID- TS_16: For	or the rider's application, verify wheth	er the password contains a
mixtur missin	e of uppercase, lo g.	wer case ,numbers and special character	ers where at least one of these criteria is
Steps	Test Steps 🕹	Test Data/Test	Actual Result
1	Navigate to registrationpage.	Test if the password contains the mixture of upper case letters, lower case letters, number and a special characters.	The error message pops up saying "The password must be a mix of numbers, upper and lower case characters."
		Key in an alphanumeric valuefor the password with no lowercase characters.	Screenshot of the testoutput below:
		Password: ABC12345( 8 characters and no upper case).	Phone Email
		Screenshot of the steps below:	ABC12345 O
		Name Phone Email	Register Now Already have an account.Login Here. Password must be a mix of numbers, upper case & lower case charachters
		Parameter ABC12345	
		Aready have an account Login Here.	

2 3 4 5	Leave the name field blank. Leave the phone field blank. Leave the email field blank. Fill in the field		
6.	for password. Click on the "Register button"		
Test C upperc missin	ase ID- TS_17: Fe case, lower case ,n g.	or the rider's application, verify wheth umbers and special characters where a	er the password contains a mixture of t least one of these criteria is
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	Test if the password contains the mixture of upper case letters, lower case letters, number and a special characters.	The error message pops up saying "The password must be a mix of numbers, upper and lower case characters."
2	Leave the name field empty.	Key in alphanumeric value for the password having both upper and lower case characters but no special	Screenshot of the testoutput below:
3	Leave the phone field empty.	characters.	او نوتر سېت 🕷
4	Leave the email field	Screenshot of the steps below: MALA	TSIA MELAKA
5	Fill in the field for password.	Name	Register Now Availy New an account Loan Here.
6	Click on register button	Email Adoc12245 Register Now Already have an account.Login Here.	Pessend must be a res of numbers, upper case & lower case charachters

Test Case ID- TS\_18:For the rider's application, verify whether the password contains a mixture of uppercase, lower case ,numbers and special characters where at least one of these criteria is missing.

Steps	Test Steps	Test Data/Test Requirements	Actual Result	
1	Navigate to registerpage.	Test if the password contains the mixture of upper case	The error message pops up saying "All fields are	
2	Leave the name fieldempty.	letters,lower case letters,number and a special characters.	required.Please key inyour data to register details."	
3	Leave the phone fieldempty.	Key in alphanumeric value for the password having both upper and		
4	Leave the email fieldempty.	special character.	Screensnot of the test output below:	
5	Fill in the password field.	Password: Abc12345@	Phone Email	
6	Click the register button.	Screenshot of the steps below:	Abc12245g) G Register Now	
	A LENING	Phone ALAYSIA Email Autoritades Abc12345@ Register Now Mini Already have an account Login Here. Man Lundo Jean	Aready have an account. Lodin Here. Alf fields are required. Please key in your data to register details	

Test Case ID- TS\_19: For the rider's application, verify whether all the fields in the registration page accepts all valid data to register an user..

Steps	Test Steps	Test Data/Test Requirements	Actual Result			
1	Navigate to registerpage.	Fill in all the fields with valid inputs. Name: Habeeb E Sadeed Phone:0146116618	A new record is created. The user is successfully registered in the database			
2	Fill in the field for name.	Email:habeeb9016@gmail.com Password:Abc12345@	of riders. Screenshot of the testoutput: New user UID in firebase:			
3	Fill in the field for phone.	Screenshot of the test steps:	applicationspace - Authentication			
4	Fill in the field for email		Program and the end of the formal the law of the development of the law of			
5	Fill in the field for password.		Q. Samb pendalating diversation or avail         Million: Q.           Instantion:         Training:         Same A           Instantion:         Training:         Same A           Instantion:         Same A         Specify:			

6	Click on the register button	Nill         Habeeb E Sadeed         Phore         D146116618         Enal         habeeb9016@gmail.com         Pursenud         Ab12345@         Rogister Now         Aready have an accountLogin Here.	A new node is created for this user in the database:
Condu	cting several tests	on Application widgets.	
Test C	ase ID- TS_20: Fo	or the rider's application, verify wheth	er an Hamburger
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to main screen.	Test if the Hamberger icon is clickable and thus opening the drawer.	A drawer opens up, showing the user currently logged in alongside a list of user menus.
2	Tap on the Hambericon.		



3 Test C	Tap on my location-icon to locate the current position of the rider. ase ID- TS_22: V	<pre>mapType: MapType.normal, myLocationButtonEnabled: true, initialCameraPosition: _kGoogLePLex, myLocationEnabled: true, erify whether the zoom control panel p</pre>	banels are enabled on the map for the
rider's Steps	application.v Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to main screen. Swipe the map and manually point the location on the map.	Zoom Control Widget Screenshot of the test steps:	The zoom controls are enabled for this map. Screenshot of the test output:
3	Tap on the zoom controls to zoom in and zoom out the desired location of the rider	Zoom to max./Zoom to min.	Max Zoom
4	Achieve the UN maximum zoom until the plus icon of the zoom control is disabled. Achieve the minimum	This step is conducted to check if both the boolean variables zoomGesturesEnabled and zoomControlsEnabled are set to true state.	Min Zoom
	zoom until the minus icon of the zoom is control is disabled.	<pre>mapType: MapType.normal, myLocationButtonEnabled: true, initialCameraPosition: _kGoogLePLex, myLocationEnabled: true, zoomGesturesEnabled: true, zoomControlsEnabled: true,</pre>	Indonesia

Test Case ID- TS\_23: For the rider's application, verify whether the search box is clickable and directs the user to a new page

Steps	ps Test Steps		Test D	ata/Test Requirements	Actu	al Result
1	Navigate to the main screen. Tap on the		Test th is click onTap Screens	ne search box to check if it kable - meaning that the function has been defined. hot of the test steps:	A ne the s inter to cl loca	ew page appears on tapping search box. This page is an rface for the user hoose the destined tion.
	Area vicini	in the ty box.	Hi ,Good da Please	e <b>chose you destination:</b>	Scree	enshot of the test output:
					7:51 🛈	
			MALA	YSIA	÷	Set Dropp Off Address
		.3	1	10	Ŷ	M. Lotzing, Selia 3, Tarian Ayet Kerch Heights, Meliaka
		3		Z.	2	Please chose your target area.
Test	Case	ID- TS_24: 1	For the	rider's application, Verify wh	nether a	back button widget is
click	able a	nd directs th	ne user te	o the previous page .		
Steps	5	Test Steps	Aller	Test Data/Test Requirements		Actual Result
1			. /	The healt button tenned is		On tanning the healt
		Navigate to search box, new screen be routed. <sup>7</sup> UI is for se a drop-off address for rider.	o the , a will This tting the	being tapped. Navigates to a new page- SITITEKNIKAL MAL	تي تيا AYSI	button, the main screen is routed.: Screenshot of the test output
2 Test	Case I	Tap on the button	back For the r	ider's application, verify whe	ether th	Min Screen Mice Melake Aver Keroh Mice Melake Mice Mice Melake Mice Mice Melake Mice Mice Melake Mice Mice Mice Melake Mice Mice Mice Mice Melake Mice Mice Mice Mice Mice Mice Mice Mice
the address bar page is disabled.						

Steps	Test Steps	Test Data/Test	Actual Result	
1		This test has been conducted to see	The address bar does not react to	
	drop off page.	if this particular text field for the address has been disabled	the on-click event-meaning that	
2	Click on the		the particular text field has been	
	address bar for		disabled.	
	address	M, Lorong Setia 1, Taman Ayer Keroh Heights, Melaka		
			M. Looring Series 1, Taman Ayer Korch Heights, Metaka	
			enabled: false,	
			style: TextStyle( fontSize: 10.0,	
3	Click multiple			
	times to see if		color: Colors.black ), // TextStyle	
	this field is			
	culturie.			
		ALAYSIA		
Test C	Case ID- TS_26:For	the rider's application, verify whethe	er the back button it's clickable	
and d	irects the user to the	e previous page.		
Steps	Test Steps	Test Data/Test Requirements	Actual Result	
1	Tap on the	Test the back button box to check	On tapping the back button,	
	Hamberger icon	if it is clickable - meaning that the	a main screen is	
	on the map to	on lap function has been defined.	routed.	
	open the	Screenshot of the test	اويومرسيني	
2	Salaat	steps:		
	"Manipulate	Back button tapped.	YSIA MELAKA	
	range of areas covered".	÷	Screenshot of	
			the test output:	
			I	
			🚍 🛛 Main Screen	
			Ayer Keron	
			ER Juli Ayer Me <sup>rch Lun</sup> y KomPLER RAMPLING NAGA MEL PERDAN	
			KEROH Mata Ayer Taman Ayer	
			MOR KEROH HEIGHTO, TAMAN O MAN BUKIT IMPI JANG INDAH KAWASAN	
			University Proposity cosed	
			Bayou Lagoon Par 🛶	
			Göögle 7 Resort, Melai	
			Please chose you destination:	
			Q Search Area in the viscinity	
			M, Lorong Setia 1, Taman Ayer Keroh Heights, Melaka Your Home Address	
Test	L Case ID- TS_27: Fo	or the rider's application, verify wheth	her the location text field in the set	
range page is clickable.				

Steps	Test Steps	Test Data/Test	Actual Result
1	Click on the Hamberger icon to open the drawer.	This test has been conducted to see if the location text field is clickable and gets selected on tapping.	On tapping, the location text field is highlighted in red showing that this particular text field has been selected.
2	Select range of areas covered from the menu.	Habeeb E Sadeed My Profile Tab	Setting Range     Enter Location
	A BUT TEKNIF	My Profile About Range of areas covered Log out List of Menus:	<b>BM</b> اونيوم،سيتي
	UNIV	7:05     ←   Setting Range      ●   Enter Location    Set radius in meters.  Set the range spe	YSIA MELAKA
3	Tap on the enter location text field.	:	

Test C	Case ID- TS_28:For	the rider's application, verify whether	r a select text field is highlighted
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Click on the	This test has been	On tapping, the
	hamberger icon to open the drawer.	conducted to see if	selected text field
		the location text	hinted "Set radius in
		field is clickable and	meterse "-the outcome
		is selected on	is that the field
2	Select range of	tapping.	being highlighted in
	areas covered	ALAYSIA	
3	Tap on the field		red showing that this
	to key	No. 1	
	in location.	Screenshot of the test	particular text field
	E	steps:	has been selected.
	100	List of Menus:	
		My Profile Tab	Screenshot of the test output:
	لاك	نىكنىكا ملىسم م	
			Set radius in meters.
	UNI	/ERSITI TEKNIKAL MALA	SIA MELAKA
		History	
		My Profile	
		About	
		Range of areas covered	
		Et. Longuit	

		Navigated to "Set Range"page.	
Test C	Case ID- TS_29: Fo	r the rider's application, verify wheth	er a selected text field is highlighted
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Click on the hamberger icon to open the drawer.	This test has been	On tapping, the selected text field hinted "Set radius in
2	Select range of areas covered from the menu.	conducted to see if the location text	YSIA MELAKA
3	Tap on the input field to set radius in meters.	field is clickable and is selected on	meters " -the outcome is that the field



Test		Habeeb E Sadeed   Wy Profile Tab     History   My Profile   About   Range of areas covered   Cog out   List of Menus:   Setting Range      (My Profile Tab (My Profile)   List of Menus:   (My Profile)   Setting Range   (My Profile)   Cog out   (My Profile)	The selected text
field is	highlighted on tar	pping.	
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1 1	Navigate to login	This test has been conducted to	On tapping, the selected text
F P	page.	see if the email text field is	field hinted
	Select the email	tapping	Email <sup></sup> -the outcome is that the

		Screenshot of the test steps:	showing that this particular text field has been selected.
		Email Password Login	
			Screenshot of the test output:
	NIN TEKNIN	المعلمة المعلم VERSITI TEKNIKAL MALA	Below is a field to key in a value for email.
Test Case ID- TS_31:For the rider's application, verify whether a selected text field is highlighted on tapping.			
Steps	Test Steps	Test Data/Test	Actual Result
1	Novigate to locin	Requirements This test has been	On tanning, the
1	page.	conducted to see if the	selected text field

the password text field is

clickable and is selected

on tapping.

2

Select the

password

field.

hinted "Password" -

the outcome is that

highlighted in blue

the field being


Test Case ID- TS_	_32:For the rider's application,	verify whether the emai	l field pops up a suitable
keyboard type.			

Steps	Test Steps	Test Data/Test	Actual Result
-	-	Requirements	
1	Navigate to login	This test has been	Actual Result
	page.	conducted to see if the	On tapping, the
2	Select the	keyboard type set for this input	selected text field hinted "Email" -
	password field.	field is a default text type	the outcome is that a default text
3	View the	keyboard that is	keyboard is being tapped.
	keyboard type	always suited for the	
	that pops up on		
	tapping this field.	Email type text field.	

		Email	test outcome:
		LITON	
		Password	Below is a field to key in a
		Login	value for email.
	UNIV	MALAYSIA المرابعة المرابعة VERSITI TEKNIKAL MALA	<pre>Password</pre>
Test C	Case ID- TS_33:For pard type	r the rider's application, verify wheth	er the password field pops up a suitable
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to login	This test has been conducted to	Actual Result On tapping, the
	page.	see if the keyboard type set for	selected text field hinted
		this input field is a type of	"Password" - the outcome is that



Test Case ID- TS\_34:For riders application, verify whether a selected text with widget navigates to a new page on tapping.

widge	a navigates to a nev	v page on tapping.	
Steps	Test Steps	Test Data/Test	Actual Result
1		Kequirements	On tapping the registration page
1	Cold boot the	This test has been conducted to	on upping, the registration page
	emulator from	see if the selected text widget	appears showing that a page-to-
	the AVD	enpreferred to a new page on	page navigation has
2	Restart the	being tapped.	been successfully
2	application		coded for the selected widget.
3		Screenshot of the test steps:	
	text widget		
	titled "Do not	Wipe Data	
	have an	Cold Boot Now	
	account.	Show on Disk	Screenshot of the test output:
	Register here".	View Details	bereensnot of the test output.
4	View the	Delete	
	registration	Stop	
	page.	This option can start or re- start	Name
		the application.	Phone
	3		Email
		R.	Pastword
	EK	×	
	-		Register Now
	50		
	03		Aiready have an account Login Here.
		Click on the selected text widget	
	51	on login page as highlighted.	and mail
	_/		6.0.0.
	1.15.113	Do not have an account.Register.Here.	
	UNIV	ERSITI TERNIKAD MALA	Y SIA MELAKA
Test C	Case ID- TS_35: Fo	or riders application, verify whether a	selected text with widget
naviga	ates to a new page of	on tapping.	
Steps	Test Steps	Test Data/Test	Actual Result
1		Requirements This test has been	On tanning, the
1	Navigate to	conducted to see if the	On tapping, the
	the register	selected text widget	login page appears
	page.	preferred to a new page on being	showing that a page-to-page
2	Click on the text	tapped.	navigation
	wideget titled "		has here
	Already have an	Screenshot of the test steps:	nas been
	account. Login	-	
3			
5	View the		successfully coded for the

Already have an account.Login Here.

selected

registration

page.

			widget.
			Screenshot of the test output:
Test C	Case ID- TS_36:For	the rider's application, verify whether	er a certain text field is
clicka Steps	ble and is focused Test Steps	on being tapped. Test Data/Test Requirements	Actual Result
2	Navigate to register page Tap on the name field.	This test has been conducted to see if the name field is clickable and gets highligted on being tapped.	On tapping, the selected text field hinted "Name" -the the outcome is that the the field being
	لاك INU	مليسيا ما يَكْنَيْكَنْ مَلْيَسْيا مَا Rime (ERSITI TEKNIKAL MALA)	highlighted in blue showing that this particular text field has been selected.
			Screenshot of the test outcome:
			Field to key in a value for name.
			Name
Test	Case ID- TS_37:Fo	r the rider's application, verify wheth	er a certain text field is
clicka Store	ble and gets focuss	ed on being tapped.	Actual Pasult
Steps	rest steps	Test Data/Test Requirements	Actual Result

1	Navigate to	This test has been conducted to see if the field for the phone is clickable	On tapping, the selected text field
	register page	and gets highligted on being tapped.	hinted "Phone" -
2		Screenshot of the test steps:	the outcome is that the field being
2	Tap on the field for the	Phone	highlighted in blue
	phone		showing that this
			particular text field
			has been selected.
			Screenshot of the
			test outcome:
		ALAYSIA	Below is field to key in a
	54		value for phone.
	SAL TEKI		
	لاك	تيڪنيڪل مليسيا م	اونيومرسيتي
	UNI	/ERSITI TEKNIKAL MALA	YSIA MELAKA
Test C	Case ID- TS_38:For	r the rider's application, verify whethe	er a certain text field is
clicka Steps	ble and is focused Test Steps	on being tapped. Test Data/Test Requirements	Actual Result
1	Navigate to	This test has been conducted to see	On tapping, the selected text field
	register page.	if the field for email is clickable and gets highligted on being tapped.	hinted "Email" -the
			the outcome is that the field is
2	Tap on the field for email.		

	Screenshot of the test steps:	highlighted in blue showing that this particular text field has been selected.
	Email	Screenshot of the test output:
		Below is a field to key in a value for email.
		Screenshot of the test output:
		Email
	MALAYSIA HA	
ANT TEKNIN		eM
لا	نيكنيكل مليسيا ما	اونيۇم سىتى ا

Test Case ID- TS\_39-For the rider's application, verify whether a certain text field is clickable and is focused on being tapped

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	This test has been conducted to see if the field for the password is clickable and gets highligted on being tapped	On tapping, the selected text field hinted "Password."
2	Tap on the field for password.	Password &	that the field
			being highlighted
			in blue showing
			that this particular
			text field has been
			selected.
			Screenshot of the
			test outcome:
			Below is the field to key in the

			q	passwo	ord.
			Sc	creensl	not of the test output:
				Password	<u>©</u>
Test C	Test Case ID- TS_40:Verify whether a password unmasks itself upon clicking the visibility				
icon.	1				
Steps	Test Steps		Test Data/Test Requiremen	nts	Actual Result

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	This test has been conducted to see if the field for the password is clickable and is	On tapping the visibility icon of the password field was either masked or unmasked.
2	Tap on the field for	able to mask or unmask the password on being tapped.	Screenshot of the test output:
	password.	Password:Abc123@	By default, the password was
3	Key in any value for password.	Screenshot of the test steps:	masked.
4	Tap on the visibility icon of the password field to hide or unhide the password.	Value for the password keyed in:	The password was being unmasked on tapping. The password was then unmasked on re-tapping.
	UNIVERSI	T TEKNIKAL MALAYSIA	
Test C	Case ID- TS_41:For the rider	's application, verify whether a cert	ain text field pops upan

appro	priate keyboard type.		
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to regsiter page.	This test has been conducted to see if the field for the name is able to pop up	The name field on being tapped pops up a defaut text
2	Tap on the field for name.	type of input field.	this type of input field

		1	
3	Inspect the type of keyboard which appears on tapping the name field	The name field on being tapped:	
	upping the name neral	Name	
			Name
			Phone
			Email
			Personal Q
			پ ···· 🗒 ۹۱۵ 🕲 ک
			<sup>20</sup> q'w'e'r't'y'u'i'o'μ
			< a s d f g h j k l
			☆ z x c v b n m ⊗
			7123 , 😳
			• <b>H</b>
Test C	Case ID- TS_42:For the rider's	application, verify whether a	certain text field pops upan
approp	priate keyboard type.		
Steps	Test Steps	Test Data/Test	Actual Result
1		Requirements	
1	Navigate to regsiter	This test has been conducted	
	page.	to see if the field for the	
		phone is able to pop up the	
-	=	keyboard best suited for this	
2	Tap on the field for	type of input field.	
	phone.	SFT CONFIDENCE	
3	Inspect the type of		The phone field on being
3	keyboard which appears on	Screenshot of the test steps:	The phone field on being
U	tapping the phone field		tapped pops up a defaut
	Inspect the type of	The phone field on being	numeric
	keyboard which appears on	tapped: NKAL MALAYS	IA MELAKA
	tapping the phone field	11	keyboard best suited.
	upping the phone note.	Phone	
		Screenshot of the test steps:	A screenshot for the test steps is
			shown below.
		The phone field on being	
		tapped:	
		Phone	
			Nama
			Ernail
			Passwort
			Binning - 127
			Register Now
			1 2 ADC 3 DEF -
			4 сня 5 жи. 6 ммо
			7 FQRS 8 TUY 9 WXYZ
			*# 0 + .
			<b>T</b> • <b>H</b>

Test Case ID- TS_43:For the rider's application, verify whether a text field pops up an appropriate keyboard type				
Steps	Test Steps	Test Data/Test Requirements	Actual Result	
1	Navigate to regsiter page.	This test has been conducted to see if the field for the email is able to pop up	The email field on being tapped pops up a defaut text	
2	Tap on the field for email.	type of input field.	of input field.	
3	Inspect the type of keyboard which appears on tapping the email field.	Screenshot of the test steps: The email field on being tapped:	Register as Rider	
	HALAYSIA HALAYSIA HALAYSIA HALAYSIA		() * * * * * * * * * * * * * * * * *	
Test C	Lase ID- TS_44: For the rider	s application, verify whether a	text field pops up an	

appropriate keyboard type. Test Steps Actual Result Steps Test Data/Test MALAYS Requirements The password field on being 1 Navigate to regsiter This test has been conducted to see if the field for the page. tapped pops up an password is able to pop up Tap on the field for keyboard best suited for this alphanumeric keyboard best 2 type of input field. password. suited this type of input field. 3 Inspect the type of keyboard which appears on tapping the email Screenshot of the test steps: field.



Test Case ID- TS\_45: For the rider's application, verify whether a visibility icon is clickable and unmasks the containing text in the selected text field.

	The second se		
Steps	Test Steps	Test Data/Test	Actual Result
	AINO	Requirements	
1	Navigate to the login page	This test has been	On tapping the visibility icon of
	ravigute to the login page.	conducted to see if the field	the password field was either
		for password is clickable	masked or unmasked.
2	Tap on the password RSITI	and is able to mask or unmask the password on S	Screenshot of the test output:By
		Password:Abc123@ Screenshot of the test steps:	

3	Check if the on-click event of the visibility icon has been properly defined.	Value for the password keyed in:	The password was being unmasked on tapping. The password was then unmasked on re-tapping the same icon
Test C the rac	Case ID- TS_46:Verity whethe dius of 50 meters.	r the application user's home f	falls within the
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Start the application.	For testing purposes, the default area was set to 50	The location/locations covered within a default range appear in a
2	allin	meters.	vertical alignment menu.
	Navigate to the main screen.	تى تيڪنيڪل ما	اويىۋىرسىي
3	Tap on the search box		The home location of the user
	named search area in the	I ERNIKAL MALATS	appears as it is covered within
	vicinity.		the range of 50 meters.
4	Search for your home location.		Screenshot of the test output:
			Set Dropp Off Address      M. Lerong Setia 1,     Timura Nay Kerini Heights,     Mohia
			BBU Apartment Jalan Bukit Beruang Utama 8, Taman Bukit Beruang
			Area control water resulting hange.
Test (	Case ID- TS_47:Verify whether	er a radius can be adjusted to e	ensure that the test location
Steps	Steps	Test Data/Test Requirements	Actual Result.

1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Location: Asrih Rosemera Radius: 50 meters (as keyed in for inspection).	The system responds: "Hi, the requested area does not lie
2	Key in a value for the location.	Screenshot of the test steps: ← Setting Range	within the range-restricted".
3	Key in a value for the radius.	Asri Rosemera	Screenshot of the test output:
4	Inspect whether the preferred area falls within the range of radius set.	Set the range specified	Screenshot of the
			Screenshot of the
5	Check if the preferred	10	toast message:
	location lies within the		Hi, the requested area doves not lie within
	input value for the radius.	KA .	the range restricted.
	E		The results retrieved
	* ATHO		from goolge place api is null
	t i l		for the area and radius
	ىسىا ملاك	تي تىڪنىڪل ما	specified. For the testing
		0	purpose a we have thus printed
	UNIVERSIT	TEKNIKAL MALAYS	a null response from this api
			a nun response from uns apr.
			Places generations Resposes ::
			<pre>{predictions: [], status: ZERO_RESULTS}</pre>

Test Case ID- TS\_48:Verify whether test location 1 is found in the drop off page after manipulating the radius.

mamp	ulating the factus.		
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "main screen" of the application.	Location: Asrih Rosemera Radius: 50 meters. Screenshot of the test steps:	The system responds: "Hi, the requested area does not cover the restricted range
2	Click on the search box.	← Set Dropp Off Address	of 50-meter radius".
	On tapping , the system enpreferred to a new screen.	Liburt Beruang, Market Asrih Rosmera	
3	Key in a value for the location.		Screenshot of the test ouptut:
4	The outcome is to be inspected. Check if the outcome for this test case is consistent with the output from the previous test case. The radius set was 50 meters.		HI,Requested area doves not cover the restricted range of 50 meter radius
Test C	Case ID- TS 49. Verify whethe	er test location 1 can be found	in the drop of page after
extend	ling the radius.		
Steps	Test Steps UNIVERSIT	Test Data/Test MALAYS Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Location: Asri Radius:500 meters Screenshot of the test steps:	The chosen area is covered within the range restricted. Screenshot of the test output: (Covered within earlier and the set output: (Covered within restricted Barge.
2	Key in a value for the location.		
3	Extend the radius. Set it to 500 meters.		

4	Navigate to "Set Drop off Address"page.	
5	Key in the value for the location.	
6	Inspect if the area preferred is found within the radius set in step 3.	

Test Case ID- TS\_50: Verify whether test location 2 is found within 500 meters.

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address " page.	Location: Ayamas Bukit Beruang ← Set Dropp Off Address	The chosen area is covered within the range restricted.
2	Key in a value for the location.	L Bukir Beruang, Malacca, 75450      Ayamas Bukit Beruang	Screenshot of the test output:
3 Test (	Check if Ayamas Bukit Beruang falls within the set range	TEKNIKAL MALAYS	Set Dropp Off Address     Set Dropp Off Address     Set Dropp Off Address     Argenes Bukit Beruang     Argenes     Arg

Test Case	ID- TS_	51: Verify wh	ether test lo	ocation 3	is found v	within	500 m	eters

Steps	Test Steps	Test Data/Test	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Pangsapuri Bukit Beruang Murni	The chosen area is
2	Key in a value for the location.	Radius:500 meters Screenshot of the test steps:	covered within the range restricted.
3	Check if Pangsapuri Bukit Beruang Murni falls within the set range		Screenshot of the test



3	Check if Apai kitchen falls within the set range.	<ul> <li>← Set Dropp Off Address</li> <li>④ 1, Lorong Setia 1, Taman Ayer Koroh Heights, Melaka</li> <li>▲ Apai <u>Kitchen</u></li> </ul>	Screenshot of the test output: C Set Dropp Off Address C Set Dropp Of
Test C	Case ID- TS_54: Verify wheth	er test location 6 is found with	nin 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address " page.	Location: Arymoner Home Stay	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Radius:500 meters Screenshot of the test steps:	Screenshot of the test output:
3	Check if Arymoner Home Stay falls within the set range.	Constant of the second	Set Dropp Off Address I Lorog Seis 1, Taran Ayer Kerch Heights, Letaka Arymöner Hörnestay Arymöner Hörnestay Taran Bukkt Beruang Utaran, Bukht Beruang, Malacca, Krea Covered within restricted Range.
Test C	Case ID- TS_55: Verify wheth	er test location 7 is found with	nin 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1 2	Navigate to the "Set Drop of address " page Key in a value for the location.	Location: Klinic Keluarga one medic.	The chosen area is covered within the range restricted.

3	Check if Klinic Keluarga one medic. falls within the set range.	Radius:500 meters Screenshot of the test steps:	Screeenshot of the test output:	
Test C	Case ID- TS_56: Verify wheth	er test location 8 is found with	nin 500 meters	
Steps	Test Steps	Test Data/Test Requirements	Actual Result	
1 2	Navigate to the "Set Drop of address " page. Key in a value for the location.	Location:Gedung Keuh Radius:500 meters Screenshot of the test steps:	The chosen area is covered within the range restricted. Screenshot of the test output:	
3	Check if Gedung Keugh falls within the set range. UNIVERSIT	Set Dropp Off Address 4. Lorong Setia 1, Taman Ayer/Koch Heghts. Messes Gedung keuh	Codung keuh     Sectured Watthin restricted Range	
Test C	Case ID- TS_57-: Verify wheth	her test location 9 is found wit	hin 500 meters	
Steps	Test Steps	Test Data/Test Requirements	Actual Result	
1 2	Navigate to the "Set Drop of address" page. Key in a value for the	Location: Farmasi One Medic Radius:500 meters	The chosen area is covered within the range restricted. Screenshot of the test output:	
	location.		*	

3	Check if Farmasi One Medic falls within the set range.	Screenshot of the test steps:	<ul> <li>Set Dropp Off Address</li> <li>Longe tree 1 Tarma kyretron Heights, Tarma kyretron Heights, Tarmasi One Medic</li> <li>Farmasi One Medic</li> <li>Jahan Bukkt Beruang Lamas Bukkt Beruang _ Area Covered within restricted Range.</li> </ul>
Test C	Case ID- TS_58-: Verify wheth	her test location 10 is found w	ithin 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Ixora Food Court Radius:500 meters	The chosen area is covered within the range restricted. Screenshot of the test output:
2	Key in a value for the location.	Screenshot of the test steps:	
3	Check if Ixora Food Court falls within the set range.	<ul> <li>Set Dropp Off Address</li> <li>4. Lorgn Setia 1. Turnan Aver Kenor Heights.</li> <li>Ixora Food Court</li> <li>TEKNIKAL MALAYS</li> </ul>	Set Dropp Off Address 4. Loog Jakis 1. Turna Neet Keel Height, Nora Food Court Kora Food Court Malacca, Malayala Area Covered within restricted Range. thin 500 meters
Stope	Test Steps	Tast Data/Tast	Actual Desult
Steps	rest steps	Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Pizza Hut Delivery	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Radius:500 meters Screenshot of the test steps:	Screenshot of the test output:

3	Check if Pizza Hut Delivery with the set range.	<ul> <li>Set Dropp Off Address</li> <li>A, Lorong Setia 1, Taman Ayer Kerch Heights, Websia</li> <li>Pizza Hut Delivery</li> </ul>	<ul> <li>Set Dropp Off Address </li> <li>4.torop Setia 1, Taman Ayet Kerch Heights, Ledisa </li> <li>Pizza Hut Delivery </li> <li>Pizza Hut Delivery </li> <li>Pizza Hut Delivery (PHD) BUKIT BERUANG </li> <li>Jahan Bukit Beruang Utama 2, Taman Bukit Beruang </li> <li>Area Covered within restricted Range. </li> </ul>
rest	Lase ID- 15_00. Verify whether	er test location 12 is found wi	
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Homestay Karmariah	The chosen area is covered within the range restricted.
2	Key in a value for the AYSIA	Radius:500 meters	Screenshot of the test output:
	location.	Screenshot of the test steps:	← Set Dropp Off Address
3	Check if Homestay Karmariah falls within the set range.	Set Dropp Off Address     Al Lorong Setia 1,     Taman Ayer Kerch Heights,     Media     Homestay Kamariah	A. Longo Senia Mana Aver Kein Hings, Measu Homestay Kamariah Mana Bukit Benung J. Teman Bukit Benung Utama, Aye Area Covered within restricted Range.
Test Ca	ase ID- TS_61: Verify whether	test location 13 is found with	nin 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Homstay Rumah Ibu.	The chosen area is covered within the range restricted.
2	Key in a value for the	Radius:500 meters	Screenshot of the test output:
	location.	Screenshot of the test steps:	← Set Dropp Off Address
3	Check if Homstay	← Set Dropp Off Address	4. Lorong Setia 1, Tarnan Ayer Korch Heights, Metaka
	Rumah Ibu falls within the set range.	4, Lorong Setia 1, Taman Ayer Keroh Heights, Melaka	A Homestay Rumah Ibu
		Homestay Rumah Ibu	Homestay Rumah Ibu Jalan Bbi S, Taman Bukit Beruang Indah, Bukit Beruang

Area Covered within restricted Range.

Test C	Test Case ID- TS_62-: Verify whether test location 14 is found within 500 meters				
Steps	Test Steps	Test Data/Test Requirements	Actual Result		
1 2 3	Navigate to the "Set Drop of address" page. Key in a value for the location. Check if Gedung Keugh 1	Location:Gedung Keuh Radius:500 meters Screenshot of the test steps:	The chosen area is covered within the range restricted. Screenshot of the test output: <ul> <li>Set Dropp Off Address</li> <li>Set Dropp Off Address</li> <li>BBU Swimming pool</li> </ul>		
Test (	falls within the set range.	per test location 15 is found w	BBU Swimming Pool     Taman Bukit Beruaring Uhama, Malacca, Malaysia     Area Covered within restricted Range.      Vithin 500 meters		
Steps	Test Steps	Test Data/Test Requirements	Actual Result		
1	Navigate to the "Set Drop of address" page.	Location:Coffeology Radius:500 meters	The chosen area is covered within the range restricted.		
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:		
3	Check if Coffeology falls within the set range.	Set Dropp Off Address      Set Dropp Off Address      Coffeeology      TEKNIKAL MALAYS	Set Dropp Off Address      Australia for Read Negets      Coffeeology      Subar Read Negets      Australia for Read Negets      Area Covered within restricted Blage.      AMELLAKKA		
Test C	Case ID- TS_64-: Verify wheth	her test location 16 is found w	vithin 500 meters		
Steps	Test Steps	Test Data/Test Requirements	Actual Result		
1	Navigate to the "Set Drop of address" page.	Location: Pasar Mini Ramil Ahmed Family	The chosen area is covered within the range restricted.		
2	Key in a value for the location.	Radius:500 meters	Screenshot of the test output:		
3	Check if Pasar Mini Ramil Ahmed Family with the set range.	<ul> <li>Screenshot of the test steps:</li> <li>Set Dropp Off Address</li> <li>4. Lorong Setta 1, Taman Ayer Keroh Heights, Lorona</li> <li>Pasar Mini Ramil Ahmed Family</li> </ul>	Set Dropp Off Address      Set Dropp Off Address      Long Gata 1:     The Address      Long Gata 2:     Address Address      Paser Mini Ramil Ahmed Eamily      Acas Covered within restricted Range.		

Test C	est Case ID- TS_65-: Verify whether test location 17 is found within 500 meters				
Steps	Test Steps	Test Data/Test Requirements	Actual Result		
1 2	Navigate to the "Set Drop of address " page Key in a value for the	Location: Snap N Snack Radius:500 meters	The chosen area is covered within the range restricted. Screenshot of the test output:		
3 Test (	Check if Snap N Snack falls within the set range.	Screenshot of the test steps. Set Dropp Off Address A Lorong Setta 1. Tarana Ayer Keech Heights, Melaka Snap N Snack Der test location 18 is found we have the f	<ul> <li>Set Dropp Off Address </li> <li>I change gene 1, "Taran Ayer Revealed The Standard Set Set Set Set Set Set Set Set Set Set</li></ul>		
Stong	Test Steps	Test Data/Test	Actual Result		
steps		Requirements	Actual Result		
1	Navigate to the "Set Drop of address" page	Location: Restoran Habeeb Sultan	The chosen area is covered within the range restricted.		
2 3	Key in a value for the location. Check if Restoran Habeeb Sultan falls within the set range.	Radius:500 meters Screenshot of the test Steps: NIKAL MALAYS  Set Dropp Off Address  Control Seta 1. The Set and the Sultan  Restoran Habeeb Sultan	Screeenshot of the test output: Set Dropp Off Address Composition of the test output: Set Dropp Off Address Pasar Mini Ramil Ahmed Emily Pasar Mini Ramil Ahmed Emily Pasar Mini Ramil Ahmed Emily Ramo Udhma 2, Tema Nath Benang		
Test C	Case ID- TS_67-: Verify wheth	ner test location 19 is found w	vithin 500 meters		
Steps	Test Steps	Test Data/Test Requirements	Actual Result		
1	Navigate to the "Set Drop of address" page	Location: Kedai Ayamas Bukit Beruang	The chosen area is covered within the range restricted.		

2 3	Key in a value for the location. Check if Kedai Ayamas Bukit Beruang falls within the set range.	Radius:500 meters Screenshot of the test steps: ← Set Dropp Off Address ♀ 4,Lorong Setia 1, Taman Ayer Koroh Heights, Melaka ♦ kedai Ayamas <u>Bukit</u> Beruang	Screenshot of the test output:
Test C	Case ID- TS_68-: Verify wheth	her test location 20 is found w	vithin 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address " page	Location: 99 Speedmart Radius:500 meters	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Set Dropp Off Address     S:	Screenshot of the test output:
3	Check if 99 Speedmart falls within the set range. UNIVERSIT	P Speedmart	Set Dropp Off Address  A Loog Seta 1, Tamar Ayek Keeb Heights," Heise 99 Speedmart 99 Speedmart 1848 (ME) Taman Bkt 99 Speedmart 1848 (ME) Taman Bkt  94 Taman Bukt Beruang Indak, Malacca, Maluysia Area Covered within restricted Range.
Test C	Case ID- TS_69-Verify whether	er test location 21 is found wi	thin 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location:University View Apartment	The chosen area is covered within the range restricted.





Test Case ID- TS\_71:Verify whether the radius can be manipulated for an extended coverage and verify whether test location 23 falls within that range. ALAYSIA MELAKA

venny	whether test rocation 25 runs	, within that range.	IAMELANA
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Location: Krate Kafe Radius:1100 meters.	The chosen area is covered within the range restricted.
		Spraanshot of the test	Concernshipt of the test sutmerty
2	Key in a value for the location.	steps:	Screenshot of the test output:
3	Extend the radius now		
5	Set it to 1100 meters.	← Set Dropp Off Address	
4	Navigate to "Set Drop off Address"page.	4. Lorong Setia 1. Taman Ayer Koroh Heights, Metaka     Krate Cafe	<ul> <li>Set Dropp Off Address</li> <li>It states the trade of the trade of</li></ul>

5	Key in the value for the location.
6	Inspect if the area preferred is found within the radius set in step 3.

Test Case ID- TS\_72: Verify whether test location 24 is found within 1100 meters.

Steps	Test Steps	Test Data/Test	Actual Result	
1	Ĩ	Requirements		
1				
	Navigate to the "Set Drop	Location: Collectco	The chosen area is covered	
	Navigate to the Set Diop	premium point	within the range restricted.	
	of address " page.	F F		
-				
2	Key in a value for the	Radius:1100 meters	Screenshot of the test output:	
	Key in a value for the			
	location.	Screenshot of the test		
2		bereenshot of the test	← Set Dropp Off Address	
3	Check if the Collectco			
	premium point falls	steps:	Wind Beruang, Malacca, 75450	
	within the set range.	×	Colled	
		14 A		
	X	>		
	1		COLLECTCO PREMIUM POINT (Post Parc Jalan Seroja, Taman Bunga Raya, Bukit Beruang, Malacc	
		Set Dropp Off Address	Area Covered within restricted Range.	
		V Set Dropp Off Address	Dutile Collections	
	18 A			
	"AINO	4, Lorong Setia 1,		
		Melaka		
	1. 1.12			
	سب مارك	Collectco Premium Point	او دوم است	
	u <sup>4</sup> u <sup>4</sup>	· · · · · · ·		
	UNIVERSITI	TEKNIKAL MALAYS	IA MELAKA	

## Test Case ID- TS\_S73: Verify whether test location 25 is found within 1100 meters.

Steps	Test Steps	Test Data/Test	Actual Result
-	-	Requirements	
1	Navigate to the "Set Drop of address " page.	Location: Our Place Nyona Cafe	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Radius:1100 meters Screenshot of the test steps:	Screenshot of the test output:

3	Check if Our Place Nyona Cafe falls within the set range.	Set Dropp Off Address         Image: A concept sets it: Transare years item item item item item item item item	<ul> <li>Construction of the second seco</li></ul>
Test C	Case ID- TS_74: Verify whethe	r test location 26 is found wit	thin 1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Tomyam Muslimah Sarah Humairah	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Radius: 1100 meters Screenshot of the test steps:	Screenshot of the test output: اونیویرسیز IA MELAKA

3	Check if Tomyam Muslimah Sarah Humairah falls within the set range.	<ul> <li>Set Dropp Off Address</li> <li>4.torog Setta 1, Taran Are Kerch Heights, Utala</li> <li>Tornyam Muslimah Sarah <u>Humairah</u></li> </ul>	<ul> <li>Set Dropp Off Address</li> <li>4.cong setia 1: Tana Ayer Kenh Hingita, Letan</li> <li>Tonyam Muslimah Sarah Humairah</li> <li>Anan Bukit Beruang Indah 1, Tanan Bukit Beruang Inda. Ares Covered within restricted Range.</li> </ul>
Test C	Case ID- TS_75: Verify whether	er test location 27 is found wi	ithin 1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
2	Key in a value for the location.	Radius:1100 meters Screenshot of the test steps:	Screenshot of the test output:
3	Check if TShirt Printing Solution falls within the set range.	Set Dropp Off Address	Set Dropp Off Address     4. Larcog Betta 1.     Methica     Austral Approximation     Thirt Printing Solution      Tshirt Printing Solution      Tshirt Printing Solution      Sestari, Jalan Bub 2, Taman Bukit Beruang Utama, Ayer _     Area Covered within restricted Range.
Test C	Case ID- TS_76: Verify whether	er test location 28 is found wi	ithin 1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Jack Visual Radius:1100 meters	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:

3	Check if Jack Visual falls within the set range.	<ul> <li>Set Dropp Off Address</li> <li>Lorong Setta 1, Tamak are Kreen Heights. Lista</li> <li>Jack Visual</li> </ul>	<ul> <li>Set Dropp Off Address</li> <li>Lang sets ft mathematical sets of the set of the se</li></ul>
Test C	Case ID- TS_77:Verify whethe	er test location 29 is found wi	thin 1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1 2 3	Navigate to the "Set Drop of address" page. Key in a value for the location. Check if Macro Organic Sdn.Bhd falls within the set range. UNIVERSIT	Location: Macro Organic Sdn.Bhd Radius: 1100 meters Location: TShirt Printing Solution Screenshot of the test steps: TEKNIKAL MALAYS & Set Dropp Off Address	The chosen area is covered within the range-restricted. Screenshot of the test The chosen area is covered within the range-restricted. Set Dropp Off Address
Test C	Case ID- TS_78:Verify whethe	er test location 30 is found wi	thin 1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Yuan Taste Taiwan Traditional cake Radius:1100 meters	The chosen area is covered within the range restricted.

Screenshot of the test steps:

2

Key in a value for the location.

Screenshot of the test output:

3	Check if Yuan Taste Taiwan Traditional cake falls within the set range.	÷	← Set Dropp Off Address	< ₽ ●	Set Dropp Off Address 4. Lorong Setia 1. Taman Ayer Karoh Heights. Mainaa Yuan Taste Taiwan Traditional cake
		\$	Tanan Ayer Keroh Heights, Melake Yuan Taste Taiwan Traditional cake	•	Yuan Taste Taiwan Traditional Cake Jalan Delma 2, Tanan Kerjasama, Malacca, Malaysia Area Covered within restricted Range.

Test Case ID- TS\_79: Verify whether test location 31 is found within 1100 meters.

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Set Drop of address" page.	Screenshot of the test steps:	The chosen area is covered within the range-restricted.
	Check if Pangsapuri Rakyat falls within the set rnage.	← Set Dropp Off Address	Screenshot of the test output: Radius:1100 meters
	SY.	Tanna Aper Kook Heghts, Metaa	← Set Dropp Off Address
	E.	Pangsapuri Rakyat	4. Lorong Settia 1. Taman Ayet Kinch Heights, Meridian
	e -		A Pangsapuri Rakyat
	Fredaning		Pangsapuri Rakyat Sg Putat Batu Jatan Sungsi Putat, Taman Bukit Bensang Utama, Ayer Arbp Covereid within restricted Range.
	1 100	16-16-11	*

Test Case ID- TS\_80: Verify whether test location 32 is found within 1100 meters.

Steps	Test Steps UNIVERSITI 1	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Atomy Melaka Spring field Radius: 1100 meters	The chosen area is covered within the range-restricted
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test
3	Check if Atomy Melaka Spring field falls within the set range.	Set Dropp Off Address	Set Dropp Off Address     Set Dropp Off
2	Key in a value for the location.		

			← Set Dropp Off Address
		<ul> <li>Set Dropp Off Address</li> <li>4.Lacong Sella 1, Tamun Ayer Karoh Heights, Medisa</li> <li>Sports Toto Malaysia Sdn Bhd</li> </ul>	4 Lorong Setia 1, Taman Ayer Kerch Heights, Mediaa         Image: Sports Toto Malaysia Sdn Bhcl         Sports Toto Malaysia Sdn. Bhcl         Taman Bunga Raya, Buckt Beruang, Malacca, Malaysia Area Covered within restricted Range.
Test Ca	ase ID- TS_81:Verify whethe	er test location 33 is found with	nin 1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Klinic Keluarga Radius: 1100 meters Screenshot of the test steps:	The chosen area is covered within the range- restricted. Screenshot of the test output:
2	Key in the value for the desired location in the location field.	Set Dropp Off Address     2.Jean But Bruang Utama 8, Trana Dakt Bruang Utama 8, Trana Dakt Bruang Utama 8, Melaa     Klinik keluarga	Set Dropp Off Address
3	Check if Klinic Keluarga alls with the set range.		
Test Case	ID- TS_82:Verify whether to	est location 34 is found within	1100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result

1 2 3	Navigate to the "Set Drop of address " page. Key in a value for the location. Check if Sports Toto Malaysia Sdn Bhd alls with the set range.	Location: Sports Toto Malaysia Sdn Bhd Radius: 1100 meters Screenshot of the test steps: Screenshot of the test steps: Set Dropp Off Address Location: Sports Toto Malaysia Sdn Bhd	The chosen area is covered within the range restricted. Screenshot of the test output: <ul> <li>Set Dropp Off Address</li> <li>(corrog Setia 1, Tama Ayer Ketch Hegiss, Metaia</li> <li>Sports Toto Malaysia Sdn Bhd, Taman Bunga Raye, Bukit Beruang, Malacca, Malaysia Area Covered within restricted Range.</li> </ul>
Test Case ID-	TS_83:Verify whether tes	t location 35 is found within 1	100 meters.
Test Case ID-	Test Steps	t location 35 is found within 1 Test Data/Test	Actual Result
Steps	Navigate to the "Sat	Requirements	The chosen area is covered
1	Drop of address " page.	Reforestation@Sg Radius:1100 meters	within the range restricted.
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:
3 Test Case ID-	Check if Urban Reforestation@Sg falls within the set range.	Set Dropp Off Address A Locage Setia 1, "Tames, Jurk Kerch Heights, Jurk Ke	Set Dropp Off Address

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Set Drop of address" page.	Location: Yees Bakery Sdn Radius:1100 meters	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:
3	Check if Yees Bakery Sdn falls within the set range.	<ul> <li>← Set Dropp Off Address</li> <li>④ 4.Locong Setia 1, Tarruna Ayer Karch Heighta, Mediata</li> <li>● Yees baker Sdn</li> </ul>	Set Dropp Off Address      (Lonce Serie 1,     Tamar Ayer Kerch heights,     Metaia      Vees baker Sch      Yees baker Sch      Tamara Kerjasama, Ayer Kerch, Malacca, Malaysia     Ares Covered within restricted Range.
	THE STATION	UTe	
Test Case ID-	TS_85:Verify whether tes	t location 37 is found within 1	100 meters.
Steps	Test Steps UNIVERSITI TI	Test Data/Test Requirements ALAYSIA	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: Mg Chong Heng Bakery	The chosen area is covered within the range restricted.
3	Check if Mg Chong Heng Bakery falls within the set range.	Radius: 1100 meters Screenshot of the test steps:	Screeenshot of the test output: Set Dropp Off Address

Test Case ID-	TS_86: Verify whether tes	t location 38 is found within 1	100 meters.
Steps	Test Steps WALAYSIA	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set	Location: Bukit Beruang	The chosen area is covered
1	Drop of address page.	Food Court	within the range restricted.
2	Key in a value for the	Radius:1100 meters Screenshot of the test steps:	Screenshot of the test
3	Check if Bukit Beruang Food Court falls within the set range. UNIVERSITI TI	Set Dropp Off Address     Set Dropp Off	Set Dropp Off Address Set Dropp Off Address Set Dropp Off Address Description of the set of the
Test Case ID-	TS_87:Verify whether tes	t location 39 is found within 1	100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: QQ Baby Store	The chosen area is covered within the range restricted.
2	Key in a value for the location.		Screenshot of the test output:

2	Key in a value for the location.	Radius:1100 meters Screenshot of the test steps:	
3	Check if QQ Baby Store falls within the set range.	Set Dropp Off Address     Ausorg Setta 1, Taman Aper Korch Inegitta.     Bukit Beruang Food Court	<ul> <li>Set Dropp Off Address</li> <li>4.comp Sets 1. Tama Aver Koroh Heights, Losse</li> <li>QQ Baby Store</li> <li>QQ Baby Store</li> <li>Age Baby Store Sch Bhd - Melaka Man MH2, Taman Muzzfar Heights, Ayer Keroh, - Area Covered within restricted Ringe.</li> </ul>
Test Case ID-	TS_88:Verify whether tes	t location 40 is found within 1	100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address " page.	Location: HTC Radius:1100 meters	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:
3	Check if HTC falls within the set range. UNIVERSITI TE	Set Dropp Off Address	Set Dropp Off Address  (c) C C C C C C C C C C C C C C C C C C C
Test Case ID-	TS_89:Verify whether tes	t location 41 is found within 1	100 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address " page.	Location: Weirdo Radius:1100 meters	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:

3	Check if Weirdo falls	← Set Dropp Off Address	
	within the set range.	4, Lorong Setia 1, Taman Aver Keroh Heights,	
		Melaka	
		Weirdo	<ul> <li>Sat Drana Off Addrass</li> </ul>
			Taman Ayer Keroh Heights, Melaka
			See Weirdo
			Weirdo
			<ul> <li>Permal, Jalan AKP 1, Taman Ayer Keroh Heights, Ayer</li> <li>Area Covered within restricted Range.</li> </ul>
Test Case ID	TS 00. Varify whathan tag	t logation 42 is found within 1	100 motors
Test Case ID-	- 15_90. Verify whether tes	st location 42 is found within i	100 meters.
Steps	Test Steps	Test Data/Test	Actual Result
	WALATS/4	Requirements	
1	Navigate to the "Set	Location: Restoran Wee	The chosen area is covered
1	Drop of address " page.	Hian	within the range restricted.
2	Key in a value for the	Radius: 1100 meters	Screenshot of the test
2	location	Radius. 1100 meters	output.
			oulpun
3	Check if Restoran Wee	Screenshot of the test steps:	
	hian falls within the set	1/ / - " -	
	مليسيا ملاك range	سی سیسی	او يور
		Set Dropp Off Address	← Set Dropp Off Address
	UNIVERSITI TE	ALCONG Setta 1. Tomon Ayer Keron Heights, ALAYS A	/ÈLAKA
		Restoran Wee <u>Hiong</u>	4, Lorong Setia 1, Taman Ayer Keroh Heights,
			Melaka
			Restoran Wee <u>Hiong</u>
			Restoran Wee Hiong
			Area Covered within restricted Range.
Test Case ID-	TS_91: Verify whether th	e radius can be manipulated for	r an extendedcoverage and
verify whethe	r test location 43 falls with	hin that range.	
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1 2 3 4 5 6	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the location. Extend the radius now. Set it to 5000 meters. Navigate to "Set Drop off Address"page. Key in the value for the location.	Location: Universiti Teknical Malaysia Melaka Radius:5000 meters Screenshot of the test steps: <ul> <li>Set Dropp Off Address</li> <li>At Lorong Setta 1. Taman Aver Kerol Heights. Melaka</li> <li>Universiti Teknika Malaysia Melaka</li> </ul>	The chosen area is covered within the range restricted. Screenshot of the test output: <ul> <li>Set Dropp Off Address</li> <li>Aurog Setti 1, Tunies</li> <li>Aurog Setti 1, Tunies</li> <li>Universiti Teknika Malaysia Melaka</li> <li>Universiti Teknika Malaysia Melaka</li> <li>Tunioran Task Utana, Ayer Kenth, Malacca, Malaysia Area Covered within restricted Range.</li> </ul>
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	preferred is found within the radius set in step 3.		
Test Case ID-	TS_92:Verify whether tes	t location 44 is found within 5	000 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Location: UTem Holdings Sdn Radius:5000 meters	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Screenshot of the test steps:	Screenshot of the test output:
3	Check if UTem Holdings Sdn falls within the set range.	EKNIKAL MALAYSIA 1	Set Dropp Off Address      Aurorg Setta 1,     Thereas Aper Korch Heights,     Markain      UTem Holdings Sdn Bhd      UTeM Holdings Sdn Bhd      Jelan TU 62, Taman Tasik Utama, Malacca, Malaysia Ares Covered within restricted Blange.
		<ul> <li>✓ Set Dropp Off Address</li> <li>④ 4.1000g Setia 1, Taman Ayer Kerch Heights, Melaka</li> <li>● UTern Holdings Sdn</li> </ul>	
Test Case ID- Steps	TS_93:Verify whether tes Test Steps	t location 45 is found within 5 Test Data/Test Requirements	000 meters. Actual Result

	1		
1	Navigate to the "Set	Location: Kolej kediaman	The chosen area is covered
	Drop of address " page.	utem makmur	within the
		Radius:5000 meters	range restricted.
2	Key in a value for the	~	~
	location.	Screenshot of the test steps:	Screenshot of the test
		← Set Dropp Off Address	output:
3	Check if Kolej		
	kediaman utem makmur	4. Lotrong Setia 1. Taman Ayer Keroh Heights. Melaka	← Set Dropp Off Address
	rans within the set	& Kolej kediaman utem makmur	
	Talige.		Taman Ayek Keroh Heights, Melako
	•		& Kolej kediaman utem <u>makmur</u>
			kolej kediaman utem makmur
			Area Covered within restricted Range.
	WALAYSIA		
	8		
	No.	R.	
Test Case ID-	- TS 94: Verify whether te	st location 46 is found within t	5000 meters.
Steps	Test Steps	Test Data/Test	Actual Result
200ps		Requirements	
1	Navigate to the "Set	Location: Campus FTM and	The chosen area is covered
	Drop of address " page.	FKM Utem	within the range restricted.
	aline of the	Radius:5000 meters	ا منبع
2	Key in a value for the		Screenshot of the test
	location.	Screenshot of the test steps:	output:
	UNIVERSITI TI	EKNIKAL MALAYSIA I	IELAKA
3	Check if Campus FTM	C Set Dropp Off Address	← Set Dropp Off Address
	and FKM Utemfalls	4, Lorong Setia 1, Taman Ayer Koroh Heights, Metaks	
	within the set range.	Campus FTM and FKM Utem	4, Lorong Setia 1, Taman Ayer Keroh Heights, Melako
			Sampus FTM and FKM Utem
			Campus FTK and FKM UTeM Jalan TU 62, Taman Tasik Utama, Ayer Keroh, Malacca,
			Area Covered within restricted Range.
Test Case ID	TS 05. Varify what have to	at logation 17 is found with in 1	5000 motors
Test Case ID-	- 15_95: verify whether te		
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	

1	Navigate to the "Set	Location: Composite	The chosen area is covered
	Drop of address " page.	Technology Research Malaysia	within the range restricted.
2	Key in a value for the	wiałaysia	Screenshot of the test
2	location.	Radius:5000 meters	output:
			1
3	Check if Composite	Screenshot of the test steps:	← Set Dropp Off Address
	Technology Research	← Set Dropp Off Address	4. Lorong Seria 1.     Tanana Awar Koreh Heispita
	the set range	A Lorong Retin 1	<u>Melaka</u> <u>Composite</u> Technology Research Malay
	the set range.	Taman Ayer Keroh Heights, Melaka	
		Lomposite Technology Research Malay	melaka, Malacca, Malaysia     Area Covered within restricted Range.
	MALAYSIA 4		
	ST N		
Test Case ID-	TS_96: Verify whether te	st location 48 is found within 5	5000 meters.
Steps	Test Steps	Test Data/Test	Actual Result
	E	Requirements	
1	Navigate to the "Set	Location: Cohu Malaysia	The chosen area is covered
	Drop of address "page.	Sdn Bhd	within the range restricted.
2	Key in a value for the	Radius:5000 meters	Screenshot of the test
-	location.		output:
	UNIVERSITI TR	Screenshot of the test steps:	AELAKA
3	Check if Cohu Malaysia	← Set Dropp Off Address	4. Lorong Setia 1.
	Sdn Bhd falls within the		Cohu Malavsia Sdn Bhd
	set range.	Taman Ayer Keroh Heights, Melaka	
		Scohu Malaysia Sdn Bhd	Cohu Malaysia Sdn Bhd Salan Pak 27, Kawasan Perindustrian Ayer Keroh, Ayer Aree Covered within restricted Range.
			Cohu Malaysia Sdn Bhd Jalan Tic 25, Taman Teknologi Cheng, Malacca, Malaysia
			Area Covered within restricted Range.
Test Case ID-	TS_97: Verify whether te	st location 49 is found within 5	5000 meters.
Steps	Test Steps	Test Data/Test	Actual Result
	-	Requirements	
1	Navigate to the "Set	Location: Fun Bake	The chosen area is covered
	Drop of address " page.	Enterprise	within the range restricted.

-			
2	Key in a value for the location.	Radius:5000 meters	Screenshot of the test
	Check if Fun Bake Enterprise falls within the set range.	Screenshot of the test steps: (a) All Locard Setia 1. Taman Ayer Kerch Heights. Lutaine Fun Bake Enterprise	<ul> <li>Set Dropp Off Address</li> <li>4. Lorong Setis 1. Taman Ayer Kerol Heights. Melata</li> <li>Fun Bake Enterprise</li> <li>Fun Bake Enterprise</li> <li>Taman iks Merdeka, Batu Berendam, Malacca, Malaysia Area Covered within restricted Range.</li> </ul>
	Stel MALAYSIA ME		
Test Case ID-	- TS 98: Verify whether te	st location 50 is found within :	5000 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result The chosen area is covered
1	Navigate to the "Set Drop of address " page.		within the range restricted.
2	Key in a value for the location.	Location: Family Store Kipmart L MALAY SIA	output: MELAKA ← Set Dropp Off Address
3	Check if Family Store Kipmart falls within the set range.	Radius:5000 meters	4. norm Setta 1.     Thom Aven Aren Heights,     Methian     Family Store Kipmant
		Screenshot of the test steps:	Family Store Kipmart View Jahn Brahang, Behang, Malacca, Malaysia Area Covered within restricted Range.
		<ul> <li>Set Dropp Off Address</li> <li>4. Loorong Setta 1, Taman Ayer Kerch Heights, Matasa</li> <li>Family Store Kipmart</li> </ul>	

	TTO OO W 'S I I I I		
Test Case ID-	TS_99: Verify whether te	st location 51 is found within :	5000 meters.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address " page.	Location: Zanna Nasi Lemak	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Radius:5000 meters Screenshot of the test steps:	Screenshot of the test output:
3	Check if Zanna Nasi Lemak falls within the set range.	A control Aris III Thread A Kinch Heights, Meliais Zanna Nasi Lemak	Set Dropp Off Address         Set Dropp Off Address <td< td=""></td<>
Test Case ID-	TS_100: Verify whether t	est location 52 is found within	5000 meters.
Steps	rest Steps	Requirements	Actual Kesult

1	Navigate to the "Set Drop of address " page.	Location: Pantai Hospital Ayer Keroh	The chosen area is covered within the range restricted.
2	Key in a value for the location.	Radius:5000 meters	Screenshot of the test output:
		Screenshot of the test steps:	← Set Dropp Off Address
3	Check if Pantai Hospital Ayer Keroh falls within the set range.	Set Dropp Off Address     Set Dropp Off Address     Action Setia 1.     Territa Ayer Kench Heights,     Melaka     Pantain Hospital Ayer kerch	<ul> <li>Loong Sens 1, Tama, yee Kachi Heghia, Jana</li> <li>Pantai Hospital Ayer Keroh</li> <li>Pantai Hospital Ayer Keroh</li> <li>Control Control Control</li></ul>
	AL MALAYSIA		
Test Case ID-	TS_101:Verify whether to	est location 1 is either within the	ne 50
Steps	Test Steps	otn. Test Data/Test	Actual Result
Steps		Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class A: This class of tests will check if our chosen locations fall within 5000 meters. This list of places is searched and tested to see if they fall within 50 meters and 5000 meters of range. Location: Asri Rosmerah Radius:50,5000 meters Screenshot of the test steps: ← Setting Range	Screenshot of the test output: Output on setting radius to 50 meters: Toast message: Hithe requested area does not lie within the range restricted. Output on setting radius to 5000 meters: Toast message: Hithe requested area falls within the restricted range.
2	Key in a value for the location and the value for the location and the value for the radius.	Asti Set the range specified	
3	Reduce the radius. Set it to 50 meters.		
4	Navigate to "Set Drop off Address"page.	← Setting Range	
5	Key in the value for the location.	set the range specified	

6	Inspect if the area		
	preferred is found		
	within the radius set in		
	step 3.		
Test Case ID-	TS_102:Verify whether te	est location 2 is either within the	ne 50
meter radius o	or 5000 meter radius or bot	h.	
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range		
	of areas covered" from	<u>Test Class A</u> :	Screenshot of the test
	the list of menus		output:
	popping up upon	This class of tests will check	Output on setting radius to
2	opening the drawer.	If our chosen locations fall	50 meters: ]
2	Key in a value for the	Setting Range	loast message:
	location and key in the	Ayamas Buit <u>Beruang</u>	Hi, the requested area does not lie within the range restricted.
	value for radius.	<u>ئە</u> 50	
		Set the range specified	Output on setting radius to
		Location: Avamas Bukit	5000 meters:
	CI I I I I I I I I I I I I I I I I I I	Berliang	message:
3	Check if Ayamas Bukit	Deruung	Hi,the requested area falls within the
	Beruang falls within the	Radius: 50 5000 meters	restricted range.
	set range	Screenshot of the test steps:	
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	UNIVERSITI TE	KNIKAL MALAYSIA I	IELAKA
		Ayamas Buit Beruang	
		<u>م اوم</u>	
		Set the range specified	
Test Case ID-	TS 103. Verify whether t	est location 3 is either within t	he 50
meter radius of	or 5000 meter radius or bot	h.	
Steps	Test Steps	Test Data/Test	Actual Result
~~ <b>F</b>		Requirements	

1	North the the time of the second		
1 2 3	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the location and key in the value for radius Check if Pangsapuri Bukit Beruang Murni falls within the set	Test Class A: This class of tests will check if our chosen locations fall within 5000 meters. This list of places is searched and tested to see if they fall within 50 meters and 5000 meters of range. Location: Pangsapuri Bukit Beruang Murni Radius: 50 5000 meters	Screenshot of the test output: Output on setting radius to 50 meters: Toast message: Hithe requested area does not lie within the range restricted.
	range		message:
	Tungo	Screenshot of the test steps:	
		Contract Research	
			Hi the requested area falls within the
		Pangsa puri buit beruang wumi	restricted range.
	WALATSIA 4	o	
	E S		
	8	Set the range specified	
		← Setting Range	
	Alun .	Pangsa puri Buit Beruang Mumi	
	shi la la	50	I and a large a
			او دوس
		Set the range specified	
	ONIVERSITI	INNINAL MALATOIA I	ILLANA
Test Case ID-	TS_104: Verify whether t	est location 4 is either within t	he 50
meter radius of	or 5000 meter radius or bot	h.	
Steps	Test Steps	Test Data/Test	Actual Result
1	Navigate to the "Range	Requirements	
4	of areas covered" from	Test Class A:	Screenshot of the test
	the list of menus		output:
	popping up upon	This class of tests will check	Output on setting radius to
	opening the drawer.	if our chosen locations fall within 5000 meters. This list	50 meters: Toast message:
		of places is searched and	the range restricted.
		tested to see if they fall	
2	Key in a value for the	within 50 meters and 5000	Output on setting
	location and the value	motors of rallge.	radius to 5000 meters: Toast
	tor the radius.	Location: Al gazerah	message:
		restaurant.	Hi,the requested area falls within the restricted range.
		Radius: 50 5000 meters	
		1	

3	Check if Al gazerah	Screenshot of the test steps:	
	restaurant falls within	← Setting Range	
	the set range.	Al gazerah restaurant	
		-1	
		Set the range specified	
		← Setting Range	
		Al gazerah restaurant	
		<u>م</u> ان الم	
		Set the range specified	
Test Case ID	- TS_105: Verify whether t	est location 5 is either within t	he 50
Steps		II. Test Data/Test	Actual Result
Steps	E C	Requirements	Actual Result
1	Navigate to the "Range		
	of areas covered" from	Test Class A:	Screenshot of the test
	popping up upon	This class of tests will check	Output on setting radius to
	opening the drawer.	if our chosen locations fall	50 meters: Toast message:
	ملسيا ملاك	within 5000 meters. This list	Hi, the requested area does not lie within the range restricted.
	10 - 10	of places is searched and	
2	Key in a value for the	within 50 meters and 5000	IELAKA
_	location and the value	meters of range.	Output on setting radius to
	for radius.		5000 meters: Toast
			Hi,the requested area falls within the
			restricted range.
		Location: Apai kitchen	
1		Location. I put kitchen	

3	Check if Apai kitchen	Screenshot of the test steps:	
	falls within the set	← Setting Range	
	range.	Apai Kitchen	
		e <sup>1</sup> ∂° [5000	
		Set the range specified	
		← Setting Range	
		Apai Kitchen	
		<u>م</u> طيم الح	
		Set the range specified	
	MALAYS/A		
	St the		
	1	R	
Test Case ID	TS 106. Varify whether t	ant logation ( is aither within t	ha 50
meter radius of	or 5000 meter radius or bot	h.	ne 50
Steps	Test Steps	Test Data/Test	Actual Result
	anna	Requirements	
1	Navigate to the "Range	Kari Sui in	0
	the list of menus	<u>Test Class A</u> :	output:
	popping up upon	This class of tests will check	Output on setting radius to
	opening the drawer.	if our chosen locations fall	50 meters: Toast message:
		within 5000 meters. This list	Hi,the requested area does not lie within the range restricted.
		tested to see if they fall	-
2	Key in a value for the	within 50 meters and 5000	
<i>L</i>	location and the value	meters of range.	
	for radius.	Location: Arymoner Home	
		Stay	



Test Ca	se ID- TS_108: Verify whet	ther test location 8 is either within	the 50-meter radius or 5000
Steps	Test Steps	Test Data/Test	Actual Result
-	-	Requirements	
1	Navigate to the "Range of areas covered" from the	<u>Test Class A</u> :	Screenshot of the test output:
	list of menus popping up	This class of tests will check if	Output on setting radius to
	upon opening the drawer.	our chosen locations fall within	50 meters: Toast message:
		5000 meters. This list of places is	Hi,the requested area does not lie within
		fall within 50 meters and 5000	the range restricted.
2		meters of range.	
2	Key in a value for the	Lessting Codure Kouch	
	for the radius.	Location: Gedung Keugh	
		Radius:50,5000 meters	
	MALATSI.	110	
	I TEKUIN		
	A BURNING		
	سيا ملاك	مىتى تېكنىكل مل	اونيوس
		Screenshot of the test steps:	Output on setting radius
	UNIVERSIT	TEKNIKAL MALAYSIA	to 5000 meters:
		Geduna Keuah	Toast message:
			Hi,the requested area falls within the restricted range.
		Set the range specified	
		← Setting Range	
		Sedung Keugh	
		o	
		Set the range specified	

Test Case ID- TS\_109: Verify whether test location 9 is either within the 50 meter radius or 5000 meter radius or both.

Steps	Test Steps	Test Data/Test	Actual Result
1		Requirements	
1 2 3	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the location and the value for radius. Check if Farmasi One Medic falls within the set range.	Test Class A: This class of tests will check if our chosen locations fall within 5000 meters. This list of places is searched and tested to see if they fall within 50 meters and 5000 meters of range. Location: Farmasi One Medic Radius:50,5000 meters	Screenshot of the test output: Output on setting radius to 50 meters: Toast message: Hithe requested area does not lie within the range restricted.
	Land MALAYSIA	Setting Range Farmaei One Medic Set the range specified	Output on setting radius to 5000 meters: Toast message: Hithe requested area falls within the restricted range.
		<ul> <li>Setting Range</li> <li>Farmasi One Medic</li> <li>5000</li> <li>Set the range specified</li> <li>Set the range specified</li> <li>Parmasi One Medic</li> <li>Alarn Bukh Beruarg Utama 2, Taman Bukh Beruarg Area Covered within restricted Range</li> </ul>	

Test Case ID- TS 1	10: Verify whether	The set location 10 is either within the 5	
meter radius or 500	0 meter radius or bot	th. Jose Data/Test	Actual Result
	UNIVERSITI 1	Requirements ALAYSIA MEI	
1 Navigate areas cov of menus opening t	to the "Range of rered" from the list popping up upon he drawer.	Test Class A: This class of tests will check if our chosen locations fall within 5000 meters. This list of places is searched and tested to see if they fall within 50 meters and 5000	Screenshot of the test output: Output on setting radius to 50 meters: Toast message:
2 Key in location radius.	a value for the and the value for	Location: Ixora Food Court	Hithe requested area does not lie within the range restricted.

3	Check if Ixora Food Court falls within the set range.	Radius:50,5000 meters Screenshot of the test steps:	Output on setting radius to 5000 meters:
		<ul> <li>← Setting Range</li> <li>▲</li> <li>▲</li> <li>50</li> <li>Set the range specified</li> </ul>	I Oast message: Hithe requested area falls within the restricted range.
		← Setting Range	
	MALAYSIA ME	Set the range specified	
Tast Cas	ملیسیا ملاک UNIVERSITI TI	س سيتي تيڪنيڪل EKNIKAL MALAYSIA MEI	اونيو. AKA
meter rac	lius or 500-meter radius or both.	st location 11 is ettier within the 30	0
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon	Test Class A: This class of tests will check if	Screenshot of the test output:
	opening the drawer.	our chosen locations fall within 5000 meters. This list of places is searched and tested to see if they fall within 50 meters and 5000 meters of range	Output on setting radius to 50 meters: Toast message:
2	Key in a value for the location and the value for radius.	Location: Pizza Hut Delivery.	Hi, the requested area does not lie within the range restricted.

3	Check if Pizza Hut		
-	Delivery with the set	Radius:50,5000 meters	Output on setting radius
	range.		to 5000 meters:
		Screenshot of the test steps:	
			Toast message:
		← Setting Range	Hi, the requested area falls within the restricted range.
		Pizza Hut <u>Delivery</u>	
		<u>مطُّمَ</u> 5000	
		Set the range specified	
		← Setting Range	
		Reference Pizza Hut Delivery	
		مِـُلُوْ <sup>م</sup> ُ	
	MALAYSIA	Set the range specified	
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	28 - 29	0	
	UNIVERSITI TI	EKNIKAL MALAYSIA ME	.AKA
Test Case	e ID- TS_112: Verify whether te lius or 5000 meter radius or both	st location 12 is either within the 5	0
Steps	Test Steps	 Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Range of		
	areas covered" from the list of	Tost Class A:	Screenshot of the test
	menus popping up upon	<u>1 CSL Class A</u> .	output:
	opening the drawer.	This class of tests will check if	Output on setting
		our chosen locations fall within 5000 meters. This list of places is	radius to 50 meters:
		searched and tested to see if they	Toast message:
2	Key in a value for	fall within 50 meters and 5000 meters of range.	Hi, the requested area does not lie within the range restricted.
	the location and the		
	value for radius.		
		J	I I



3	Check if Homstay Rumah Ibu falls within the set range.	Radius:50,5000 meters Screenshot of the test steps: ← Setting Range	Output on setting 19 radius to 5000 meters: Toast message: Hithe requested area fails within the restricted range.
		Homestay Rumah Ibu	
		<ul> <li>← Setting Range</li> <li>Momestay Rumah Ibu</li> <li>↔</li></ul>	
	Halaysia a	Set the range specified	او نبو م
	UNIVERSITI T	EKNIKAL MALAYSIA ME	
Test Cas meter ra	se ID- TS_114: Verify whether to	est location 14 is either within the 5	50-meter radius or 5000
Steps	Test Stens	Tast Data/Tast	
	Test Steps	Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Data/Test         Requirements         Test Class A:         Locations that fall within 500         meters. The same list of locations         are searched and tested to see if         they fall within 100 meters and         500	Actual Result Screenshot of the test output: Output on setting radius to 50 meters: Toast message:
1	Nexigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.         Key in a value for the location and the value for radius.	Test Data Test         Requirements         Test Class A:         Locations that fall within 500         meters. The same list of locations         are searched and tested to see if         they fall within 100 meters and         500         meters of range respectively.         Location: Gedung Keugh	Actual Result Screenshot of the test output: Output on setting radius to 50 meters: Toast message: Hithe requested area does not lie within the range restricted.

			Toast message:
		← Setting Range	11 the second
		Second Keun	restricted range.
		Set the range specified	
		← Setting Range	
		<2δ <sub>0</sub> β000	
		Set the range specified	
	AL WALATSIA 46		
	a de la companya de la company		
Test Case	e ID- TS 115: Verify whether te	st location 15 is either within the 5	0
meter rad	lius or 5000 meter radius or both		
Steps	Test Steps	Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of	Test Class A:	Screenshot of the test
	menus popping up upon	This class of tests will check if	output:
	opening the trawer.	our chosen locations fall within 5000 meters. This list of places is	Output on setting
		searched and tested to see if they	radius to 50 meters:
		fall within 50 meters and 5000 meters of range.	Toast message:
2	Key in a value for the		Hi, the requested area does not lie within the range restricted.
	radius.	Location: Colleology	
3	Check if Coffeology falls	Radius:50,5000 meters	Output on setting radius
	within the set range.	Screenshot of the test steps:	to 5000 meters:
			Toast message:
			riune requested area fails within the restricted range.

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		<ul> <li>← Setting Range</li> <li>Pasar Mini Ramil Ahmed Family</li> <li>5000</li> <li>Set the range specified</li> <li>← Setting Range</li> <li>Pasar Mini Ramil Ahmed Family</li> <li>●</li> <li>●</li> <li>●</li> <li>Set the range specified</li> </ul>	Hithe requested area fails within the restricted range.
	LEAST WALAYSIA HE	UTer	
	مليسيا ملاك	رسيتي تيڪنيڪل	او نيو:
Test Case	e ID- TS_117: Verify whether te	st location 17 is either within the 5	0
meter rad	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	<u>Test Class A</u> : This class of tests will check if our chosen locations fall within 5000 meters. This list of places is searched and tested to see if they fall within 50 meters and 5000	Screenshot of the test output: Output on setting radius to 50 meters: Toast message:
2	Key in a value for the location and the value for radius.	meters of range.	

-		1	
3	Check if Snap N Snack falls within the set range.		Hi,the requested area does not lie within the range restricted.
		Location: Snap N Snack Radius:50,5000 meters Screenshot	Output on setting radius to 5000 meters:
		of the test steps:	Toast message:
		<ul> <li>← Setting Range</li> <li>Map N Snack</li> <li>Map N Snack</li> </ul>	Hi,the requested area falls within the restricted range.
		Set the range specified	
	مليسيا ملاك UNIVERSITI TE	Setting Range       Shap N Shack       50       Set the range specified       Set the range specified       بی می بی       KNIKAL MALAYSIA MEI	او نيو. Ака
Test Case meter rad	e ID- TS_118: Verify whether te ius or 5000 meter radius or both	st location 18 is either within the 5	0
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up	<u>Test Class A</u> : Locations that fall within 500	Screenshot of the test output:
	upon opening the drawer.	meters. The same list of	
2		locations are searched and tested to see if they fall within 100 meters and 500 meters of range respectively	Output on setting radius to 50 meters: Toast message:
2	Key in a value for the location and the value for radius.	Location: Restoran Habeeb	Hi, the requested area does not lie within the range restricted.

3	Check if Restoran Habeeb Sultan falls	Sultan	
	within the set range.	Radius:50,5000 meters	Output on setting radius
		Spranghot of the test stops	to 5000 meters:
		screensnot of the test steps.	Toast message:
			Hi,the requested area fails within the restricted range.
		← Setting Range	
		Restoran Habeeb Sultan	
		<u>م</u> . ∮ړ.	
	WALAYSIA 4	Set the range specified	
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	مليسيا ملاك	<i>ر</i> سيتي تيڪنيڪل	اونيق
	UNIVERSITI TI	KNIKAL MALAYSIA MEI	_AKA
Test Case	e ID- TS_119: Verify whether te	st location 19 is either within the 50	0
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of	Test Class A:	Screenshot of the test
	menus popping up upon opening the drawer.	This class of tests will check if	output:
	· · · · · · · · · · · · · · · · · · ·	our chosen locations fall within 5000 meters. This list of places is	Output on setting
		searched and tested to see if they	radius to 50 meters:
2		tall within 50 meters and 5000 meters of range.	Toast message:
2	Key in a value for the location and the value for radius.	Location: Kedai Ayamas Bukit Beruang	Hi,the requested area does not lie within the range restricted.
		Radius:50,5000 meters	Output on setting

		Screenshot of the test steps:	radius to 5000 meters: Toast message:
		← Setting Range	
		Kedai Ayamas Bukit Beruang	Hi,the requested area falls within the
		o≟or 5000	rearraice range.
		Set the range specified	
		← Setting Range	
3	Check if Kedai Ayamas Bukit Beruang falls within the set	Kedal Ayamas Bukit Beruang	← Set Dropp Off Address
	range.	<u>∝</u> .≝ <sub>6°</sub> 50	4, Long Setia 1.     Taman Jave Kenbi Heinha
		Set the range specified	kedai Ayamas <u>Bukit</u> Beruang
	APL MALAYSIA		Kedai Ayamas @Bukit Beruang     Jalan Bukit Beruang Utama 2, Taman Bukit Beruang _     Area Covered within restricted Range.
	TEKIN		
Test Case	ID- TS_120: Verify whether ter	st location 20 is either within the 50	
Steps	Test Steps	Test Data/Test	Actual Result
-	UNIVERSITI TE	Requirements	AKA
1	Navigate to the "Range of areas covered" from the list of	<u>Test Class A</u> :	Screenshot of the test
	menus popping up upon	This class of tests will check if our	output:
	opening the trawer.	chosen locations fall within 5000	Output on setting
		searched and tested to see if they	radius to 50 meters:
		fall within 50 meters and 5000	Toast message:
2	Key in a value for the location and the value for	Location: 99 Speedmart	Hi, the requested area does not lie within the range restricted.
	radius.		

3	Check if 99 Speedmart falls	Radius:50,5000 meters Screenshot	
	within the set range.		Output on setting
		of the test steps:	radius to 5000 meters:
		← Setting Range	Toast message:
		99SpeedMart	Hi, the requested area falls within the restricted range.
		<u>₀</u> ≟ <sub>ö*</sub> 5000	
		Set the range specified	
		← Setting Range	
		99SpeedMart	
		«± <sup>1</sup> σ <sup>4</sup>	
		Set the range specified	
	WALAYSIA 4		
	"A ALINO		
	shi lake	15:5: "	i.i.
	2)00 00000	المستقي فتستست	1000
Test Cas	D. TS. 121. Marify whathan to	at location 21 is sither within the 50	AKA
meter rad	lius or 5000 meter radius or both		
Steps	Test Steps	Test Class A:	
1	Navigate to the "Range of	Locations that fall within 500	Screenshot of the test
	areas covered" from the list of	meters. The same list of locations	output:
	opening the drawer.	are searched and tested to see if	Output on setting
2		they fall within 100 meters and 500 meters of range respectively.	radius to 50 meters:
	Key in a value for the location and the value for radius.	I a setion. IL is set 17:	Toast message:
		Apartment	Hi, the requested area does not lie within the range restricted.
I	1	1	1 I

3	Check if University View Apartment falls within the set range.	Radius:50,5000 meters Screenshot of the test steps:	Output on setting radius to 5000 meters: Toast message: Hithe requested area fails within the restricted range.
		← Setting Range University View Apartment 50 Set the range specified	
	Have MALAYSIA HE	UTEN	
Test Cas	e ID- TS 122:Verify whether tes	at location 22 is either within the 50	او تبه
meter rac	lius or 5000 meter radius or both		
Steps	Test Steps UNIVERSITI TE	Test Data/Test ALAYSIA MEL	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class A: Locations that fall within 500 meters The same list of locations are searcher and tested to see if they fall within 50 meters and 5000 meters of range respectively.	Screenshot of the test output: Radius 500 ed meters: Toast message:
2	Key in a value for the location and the value for radius.	Location: Dima Restaurant falls within	Hi,the requested area does not lie within the range restricted.
3	Check if Dima Restaurant falls within the	Radius:50,5000 meters	Output on setting

		Screenshot of the test steps: <ul> <li>Setting Range</li> <li>Dima Restaurant</li> <li>500</li> </ul> Set the range specified Set the range specified Dima Restaurant Solution (Set Setting Range) Solution (Set Set Set Setting Range) Solution (Set Set Set Set Set Set Set Set Set Set	Radius 500 meters: Toast message: Hithe requested area falls within the restricted range.
		Set the range specified	
	- Malars	<b>لائم المعالم الم المعالم المعالم المعالم</b>	M اونیوس
	UNIVERSI	TI TEKNIKAL MALAYSIA	MELAKA
Test (	Tase ID_ TS_123.Verify whet	her test location 23 is either within	the 500
meter	radius or 5000 meter radius of	pr both.	
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class B: This class of tests will test if the chosen locations lie beyond 1100- meter radius.	Screenshot of the test output:
2	Key in a value for the location.	category of the testing phase is between 500 to 5000 meter radius.	Radius: 500 meters
3	Extend the radius now.	Locations that fall within 50	
4	Navigate to "Set Drop off Address"page	meters and 5000 meters in earlier test cases-the same list of	Toast message:
5	Key in the value for the location and inspect if the area falls within this range.	to see if they fall beyond 500 meters and 5000 meters of range respectively.	Hi,Requested area does not cover the restricted range of 500 meter radius

6	Navigate to the "Range of areas covered"		
7	Reduce the radius to 500 meters.	Radius:500,5000 meters as set in stet 3 and step 7.	Radius:5000 meters Toast
8	Repeat step 4 and Step 5	Screenshot of the test steps: Location: Krate Kafe	Hi,the requested area falls within the restricted range.
		Screenshot of the test steps:	
		← Set Dropp Off Address	
		4, Lorong Setia 1, Taman Ayer Keroli Heights, Melaka	
		& krate <u>Cafe</u>	
	L MALAYS	14 44	
	an in the second se		
Test C	Case ID- TS_124: Verify whet	her test location 24 is either within	the 500
Steps	Test Steps	Test Data/Test	Actual Result
1	**AIND	Requirements	
1	Navigate to the "Set Drop of address " page.	Test Class B: This class of tests will test if the chosen locations lie beyond 1100- meter radius. The interval chosen for this category of the testing phases is between 500 to 5000 meter radius.	Screenshot of the test output: MELAKA
		Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	



Test Case ID- TS_	125: :Verify whether test location	25 is either within	the 500-meter radius or
5000 meter radius	or both		

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Set Drop of address" page.	<u>Test Class B</u> :	Screenshot of the test output:
2	Key in a value for the location.	This test class will test if the choosen locations lie beyond 1100-meter radius.	
2	Key in a value for the location.	Locations that fall within 50 meters and 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively	

3	Check if Our Place Nyona Cafe falls within the set range.	Location: Nyona Cafe Screenshot of the test steps:	Radius :500 meters Screenshot of the test output: Radius: 500 meters
		<ul> <li>← Set Dropp Off Address</li> <li>④ ALorong Setia 1, Taman Ayer Keroh Heights, Metiaka</li> <li>● Nyona Cafe</li> </ul>	
Taat	Loss ID TS 126 Vorify what	by tool location 26 is sither within	the 50 meter redius or 5000 meter
radius	or both		
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1 2	Navigate to the "Set Drop of address" page.	Test Class B: This class of tests will test if the chosen locations lie beyond 1100-	Screenshot of the test output:
	location.	meter radius. The interval chosen for this	Radius: 500 meters
3	Check if Tomyam Muslimah Sarah Humairah falls within the set range.	category of the testing phases is between 500 to 5000 meter radius. Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	Toast message:

		Location: Tomyam Muslimah Sarah Humairah	Radius:5000 meters
		Screenshot of the test steps:	Toast message: Hi,the requested area falls within the restricted range.
		Screenshot of the test steps:	
		← Set Dropp Off Address	
		4. Lorong Satile 1, Taman Jaya Karboh Heighta, Melais	← Set Dropp Off Address
		Long Tomyam Muslimah Sarah <u>Humairah</u>	4. Lorong Setia 1. Taman Ayer Koroh Heights,
	MALAYS	4	Sarah Humairah
	TEKUINAL TEKUINA	UTe	Hi,Requested area does not cover the restricted range of 500 meter radius
Test C	Case ID- TS_127:Verify whet	her test location 27 is either within	the 500-meter radius or 5000
meter Steps	Test Steps	Test Data/Test	Actual Result
1	UNIVERSI	THERNIKAL MALAYSIA	MELAKA
	Navigate to the "Set Drop of address " page.		Screenshot of the test output:
2	Key in a value for the location.	Test Class B:	1
		chosen locations lie beyond 1100- meter radius.	Radius: 500 meters
		The interval chosen for this category of the testing phases is	Toast message:
		Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of	Hi,Requested area does not cover the restricted range of 500 meter radius
		locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	Radius:5000 meters
		]:	Toast message:





UNIVERSITI TEKNIKAL MALAYSIA MELAKA



Steps	Test Steps	Test Data/Test	Actual Result	
		Requirements		
1	Navigate to the "Set Drop	Test Class B:		
	of address " page.			
		This class of tests will test if the		
		chosen locations lie beyond 1100-		
		meter radius.		
		The interval chosen for this		
		category of the testing phases is		
		between 500 to 5000 meter radius.		
		Locations that fall within 50 meters		
		and 5000 meters in earlier test		
		cases-the same list of locations are		
		searched and tested to see if they		
		fall beyond 500 meters and 5000		
		meters of range respectively.		
		•		
2	Key in a value for the		Screenshot of the test	
2	Iocation.		output:	
3	Sdn Bhd falls within the set	21A MA		
	range	<u> </u>	Radius :500 meters	
		A L	Rudius .500 meters	
	TE			
	II.		Screenshot of the test	
	Alun		output:	
	del (	Leation: Macro Organic		
	سا ملاك	Sdn.Bhd	اوىيۇم س	
	14	- 0	Radius: 500 meters	
	UNIVERS	ITI TEKNIKAL MALAYSIA	MELAKA	
		Screenshot of the test steps:	Toast message:	
			-	
		← Set Dropp Off Address	Ui Degreented even doop not envirothe	
		or constraint the second methods	Hi, Requested area does not cover the	
		4. Lorong Setia 1.	restricted range of 500 meter radius	
		Taman Ayer Keroh Heights, Melaka		
		Macro Organio Sda Bhd		
			Radius:5000 meters	
			The second se	
			Toast message:	
			Hithe requested area falls within the	
			restricted range.	
Test (	ase ID_ TS 130. Varify wh	ther test location 30 is either within	the 500	
meter	meter radius or 5000 meter radius or both.			

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Test Class B:	Screenshot of the test output:
2	Key in a value for the location.	This class of tests will test if the chosen locations lie beyond 1100-meter radius.	Radius :500 meters
3	Check if Yuan Taste Taiwan Traditional cake falls within the set range.	The interval chosen for this category of the testing phases is between 500 to 5000 meter radius. Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively. Location: Yuan Taste Taiwan Traditional cake	Screenshot of the test output: Radius: 500 meters
		Screenshot of the test steps: Composition of the test steps: Set Dropp Off Address Composition of the test steps: Composition of test steps: Composition	Toast message: HiRequested area does not cover the restricted range of 500 meter radius Radius: 5000 meters
			Toast message: Hi, the requested area falls within the restricted range.
Test C	Case ID- TS_131: Verify who	ether test location 31 is either within	the 500-meter radius or
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Test Class B: This class of tests will test if the	Screenshot of the test output:
2	Key in a value for the location.	chosen locations lie beyond 1100- meter radius. The interval chosen for this	Radius :500 meters
3	Check if Pangsapuri Rakyat falls within the set range.	category of the testing phases is between 500 to 5000 meter radius. Locations that fall within 50 meters	Screenshot of the


## Test Case ID- TS\_132: Verify whether test location 32 is either within the 500-meter radius or 5000 meter radius or both

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Set Drop of address" page.	Test Class B: This class of tests will test if the	
2	Key in a value for the	chosen locations lie beyond 1100-	
	location.	meter radius.	
2	Chaols if Atomy Molales	The interval chosen for this	
3	Spring field falls within	category of the testing phases is	
	the set range.	between 500 to 5000 meter radius.	
		Locations that fall within 50 meters	
		and 5000 meters in earlier test	
		searched and tested to see if they	
		fall beyond 500 meters and 5000	
		meters of range respectively.	
		Location: Atomy Melaka Spring field	Screenshot of the test output:

			Radius: 500 meters
		Screenshot of the test steps:	Toast message:
		Set Dropp Off Address     A. Lorong Kendt,     Tartiss Ager Rendt, Heighte,     Metilias     Atomy Melaka Spring field	Hi,Requested area does not cover the restricted range of 500 meter radius
			Radius:5000 meters
			Toast message: Hi, the requested area falls within the restricted range.
	THE BALAY		
Test C	Case ID- TS_133: Verify who	ether test location 33 is either within	the 500
meter Steps	Test Steps UNIVERS	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	Test Class B:	Screenshot of the test output:
2	Key in a value for the location.	This class of tests will test if the chosen locations lie beyond 1100- meter radius.	Radius :500 meters
3	Check if Sports Toto Malaysia Sdn Bhd alls with the set range.	The interval chosen for this category of the testing phases is between 500 to 5000 meter radius. Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	Screenshot of the test output:
		Location: Sports Toto Malaysia Sdn Bhd	Radius: 500 meters
		Screenshot of the test steps:	Kunus. 500 meters

Test (	'ase ID- TS 134: Verify who	Set Dropp Off Address      Isong Seta 1.     Tarua Ayer Karch Heghts.     Media      Sports Toto Malaysia Sdn Bhd      sther test location 34 is either within	Toast message: Hi,Requested area does not cover the restricted range of 500 meter radius Radius: 5000 meters Toast message: Hi,the requested area falls within the restricted range.
5000 1	neter radius or both	and test location 34 is entited within	the 500-meter radius of
Steps 1 2	Test Steps Navigate to the "Set Drop of address " page. Key in value for the location.	Test Data/Test Requirements Test Class B: This class of tests will test if the chosen locations lie beyond 1100- meter radius. The interval chosen for this category of the testing phases is between 500 to 5000 meter radius. Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	Actual Result اونیوس MELAKA

3	Check if Sports Toto Malaysia Sdn Bhd alls with the set range.	Location: Sports Toto Malaysia Sdn Bhd Screenshot of the test steps:	Screenshot of the test output: Radius: 500 meters
		Set Dropp Off Address      Allowing Setia 1, Tamura Ayer Keroh Heights,	Toast message: Hi,Requested area does not cover the restricted range of 500 meter radius
		Sports Toto Malaysia Sdn <u>Bhd</u>	Radius:5000 meters Toast
	Hatan MALAY		Hi, the requested area falls within the restricted range.
Test C	Case ID- TS_135: Verify whe meter radius or both	ther test location 35 is either within	the 500-meter radius or
Steps	Test Steps UNIVERS	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	•	
2	Key in a value for the location.	Test Class B: This class of tests will test if the	Screenshot of the test
3	Check if Urban Reforestation@Sg falls within the set range.	chosen locations he beyond 1100- meter radius. The interval chosen for this category of the testing phases is between 500 to 5000 meter radius.	
		Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	
		Reforestation@Sg	



Test Case ID- TS	5_136 :Verify whether tes	st location 36 is	either within the 50	0-meter radius or
5000 meter radiu	s or both			

50001	neter radias or ooth		
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Set Drop of address" page.	<u>Test Class B:</u>	Screenshot of the test output:
2	Key in a value for the location.	This class of tests will test if the chosen locations lie beyond 1100- meter radius. The interval chosen for this category of the testing phases is between 500 to 5000 meter radius. Locations that fall within 50 meters and 5000 meters in earlier test cases-the same list of locations are searched and tested to see if they fall beyond 500 meters and 5000 meters of range respectively.	

3	Check if Yees Bakery Sdn falls within the set range.	Screenshot of the test steps:	Radius: 500 meters
		← Set Dropp Off Address	Toast message:
		A Lancing Serie 1. Tarran Ayer Karch Heights. Melaka  Yeess baker <u>Sdn</u>	Hi,Requested area does not cover the restricted range of 500 meter radius
			Radius:5000 meters Toast
			message:
	MALAY	31A	Hi, the requested area falls within the restricted range.
	S S S S S S S S S S S S S S S S S S S	UTE	
Test C 5000 1	Case ID- TS_137:Verify whe meter radius or both	ther test location 37 is either within	the 500-meter radius or
Steps	Test Steps UNIVERS	Test Data/Test Requirements	Actual Result
1	Navigate to the "Set Drop of address" page.	<u>Test Class B:</u>	

2	Key in a value for the location.	This class of tests will test if the chosen locations lie beyond 1100-	
		meter radius.	
		The interval chosen for this	
		category of the testing phases is	
		between 500 to 5000 meter radius.	
		Locations that fall within 50 meters	
		and 5000 meters in earlier test	
		cases-the same list of locations are	
		searched and tested to see if they	
		fall beyond 500 meters and 5000	
		meters of range respectively.	
		Location: Mg Chong Heng	
		Bakery	
		Dukery	
		Screenshot of the test steps:	
	MALAY	SIA	
	St.	10	
	1 and	Set Dropp Off Address	
	Ξ.		
	E E	A, Loobig Seria 1,     Anna Ayer Karch Heights,     Mericka,	
	14 JAN	Mg Chong Hen	
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		4 <sup>1</sup>	
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3	Check if Mg Chong Heng Bakery falls within the set range.		Screenshot of the test output: Radius: 500 meters Toast message: Hi,Requested area does not cover the restricted range of 500 meter radius
			Radius:5000 meters Toast
	AT MALAYSIA	č.	message:
	TEXHILE		Hi, the requested area falls within the restricted range.
	the last		
Test Ca	se ID- TS_138:Verify whether te	est location 38 is either withi	n the 500
meter ra	adius or 5000 meter radius or bot	h Test Data/Test	Actual Result
Steps	UNIVERSITI T	Requirements	
_	Navigate to the "Set Drop of	Test Class B:	
1	address " page.	This test class will test if the choosen locations lie beyond 1100-meter radius.	Screenshot of the test output: Radius :500 meters
		50 meters and 5000 meters	Screenshot of the test
		in earlier test cases. The	output:
		same list of locations are	ouipui.
		if they fall beyond 500	Radius: 500 meters Toast
		meters and 5000 meters of	message:
		range respectively	Hi,Requested area does not cover the
		Location: Bukit Beruang Food Court	restricted range of 500 meter radius
2	Key in a value for the		Radius:5000 meters
	location.	Screenshot of the test	
		Screenshot of the test	

3	Check if Bukit Beruang Food Court falls within the set range.	steps:	Set Dropp Off Address 4. Larsog Setta 1. Taman Aper Korkh Heights. Melaka Bukit Beruang Food Court	Toast message: Hi, the requested area falls within the restricted range.
	HALAYSIA MALAYSIA	LAKA.	UTe	
Test Ca 5000 m	se ID- TS_139:Verify whether tere eter radius or both	st locat	ion 39 is either withi	in the 500-meter radius or
Steps	Test Steps	Test	Tost	Actual Result
1	Navigate to the "Set Drop of address" page	Requi	irement MALAYSI	Screenshot of the test output:
2	address " page." Key in a value for the location.	s Test C This te the cho beyond Locat 50 me meter cases. locative tested beyon 5000 respec	<b>Class B</b> : st class will test if osen locations lie 1 1100-meter radius. ions that fall within eters and 5000 s in earlier test . The same list of ons are searched and to see if they fall ad 500 meters and meters of range ctively	Radius :500 meters

3	Check if QQ Baby Store falls within the set range.	Location: QQ Baby Store Screenshot of the test	Screenshot of the test output:
		steps:	Radius: 500 meters Toast
			message:
		← Set Dropp Off Address	Hi,Requested area does not cover the
		4, Lorsog Setta 1, Tarnan Ayer Korch Heights, Meliaka	restricted range of 500 meter radius
		Bukit Beruang Food Court	
			Radius:5000 meters Toast
			message:
	WALAYSIA		Li the requested area falls within the
	A TEKNING TEKNING		Hi, the requested area fails within the restricted range.
	ملىسىا ملاك	ق تېڪنيڪل	اونيۇس
	UNIVERSITI T	EKNIKAL MALAYSI	Set Dropp Off Address
			QQ Baby <u>Store</u>
			QQ Baby Store Sdn Bhd - Melaka Jalan MH3, Taman Muzaflar Helphts, Ayer Keroh, _ Area Covered within restricted Range.
Tast Ca	000 ID TS 140. Warify what are	act location 40 is sither with	ain the 500 meters
radius	or 5000 meter radius or both	est location 40 is either will	init the 500 meters
Steps	Test Steps	Test Data/Test Requirements	Actual Result

1	Navigate to the "Set Drop of address " page.	Test Class B: Locations that fall within 1100 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 500 meters and 5000 meters of range respectively Location: HTC	
		steps:	
	Line WALAYSIA	<ul> <li>Set Dropp Off Address</li> <li> </li> <li></li></ul>	اونيوس. ۸ MELAKA
2	Key in a value for the location.		

3	Check if HTC falls within	1	
	the set range.		
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	and the second sec	6	
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	01111 2100111		
Test Ca	se ID- TS_141: :Verify whether	test location 41 is either wit	hin the 500
meter ra	adius or 5000 meter radius or bot	h	
Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
	Navigate to the "Set Drop of	Test Class B:	
1	address " nage		Screenshot of the test output:
	address page.	This test class will test if	Radius :500 meters
2	Key in a value for the	the choosen locations lie	
	location	beyond 1100-meter radius.	
		Locations that fall	

3	Check if Weirdo falls within	within 50 meters and	Screenshot of the test
-	the set range.	5000 meters in earlier	
		test cases. The same list	output:
		of locations are	
		searched and tested to	Radius: 500 meters Toast
		see if they fall beyond	message:
		meters of range	and and a second
		respectively	Hi,Requested area does not cover the
		Location: Weirdo	restricted range of 500 meter radius
		Location: Wendo	
		Screenshot of the test	Radius:5000 meters Toast
		steps:	
		← Set Dropp Off Address	message:
		4, Lorong Setia 1, Taman Aver Keroh Heights,	
		Melaka Wairda	Hi,the requested area falls within the
		TYCHOO	restricted range.
	WALATON 4		h
	E.		
	EK	KA .	
	No.		
	SAIND.		
	del ( )		← Set Dropp Off Address
	مليسيا ملاك	ق يكتيكن	Conception 1 Transmitzer Recent Literante, Meliana
	5	);	See Weirdo
	UNIVERSITI T	EKNIKAL MALAYSI	
			<ul> <li>Permal, Jalan AKP 1, Taman Ayer Keroh Heights, Ayer</li> <li>Area Covered within restricted Range.</li> </ul>
Test Ca	use ID- TS_142: :Verify whether t	est location 42 is either with	hin the 500-meter radius or
5000 m	eter radius or both.		····
Steps	Test Steps	Test Data/Test	Actual Result
		Test Class B.	
1	Navigate to the "Set Drop of		
	address page.	Locations that fall	
2	Key in a value for the	within 1100 meters in	Screenshot of the test
	location.	earner test cases. The	output:

3	Check if Restoran Wee hian falls within the set range.	are searched and tested to see if they fall within 500 meters and 5000 meters of range respectively Location: Restoran Wee Hian Screenshot of the test steps:	Radius: 500 meters Toast message: HiRequested area does not cover the restricted range of 500 meter radius Radius: 5000 meters Toast message: Hithe requested area fails within the restricted range.
Test Ca	se ID- TS 143 :Verify whether t	est location 43 is either within	n the 500-meter radius or
1100 m	neter radius or both		
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	<b>Test Class C</b> : Locations that fall within 5000 meters in earlier test cases. The same list of	Screenshot of the test output:
2	Key in a value for the location.	tested to see if they fall within 1100 meters and 500	Radius: 1100 meters Toast
3	Extend the radius now. Set it to 1100 meters.	meters of range respectively Location: Universiti Teknical Malaysia Melaka	message:
4	Navigate to "Set Drop off Address"page.		

5	Key in the value for the location.	Radius:500,1100 meters	Hi,Requested area does not cover the
6	Inspect if the area preferred is	Screenshot of the test steps:	restricted range of 1100 meter radius
	found within the radius set in step 3.	← Set Dropp Off Address	
		4. Lorong Setia 1, Taman Ayer Keroh Heights, Melaka	Radius:500 meters
		Luiversiti Teknika Malaysia Melaka	
7	Perform step 3 and set the radius to 500 meters		Hi,Requested area does not cover the
8	Inspect if the area preferred is found within the radius set in step 7.		restricted range of 500 meter radius
	MALAYSIA	~	
	IT TEKNIN		M
Test Ca	se ID- TS_144: Verify whether	test location 44 is either within	the 500-meter radius or
1100-m	eter radius or both.		
Steps	Test Steps	Requirements	Actual Result
1	Navigate to the "Range of	Test Class C:	Screenshot of the test
	areas covered" from the list of menus popping up upon	Locations that fall within	output:
	opening the drawer.	cases. The same list of	
2	Key in a value for the	locations are searched and tested to see if they fall	Radius: 1100 meters Toast
	location.	within 1100 meters and 500	message:
3	Extend the radius now. Set it to 1100 meters.	meters of range respectively Location: Universiti Teknical Malaysia Melaka Radius:500,1100 meters	Hi,Requested area does not cover the restricted range of 1100 meter radius
4	Navigate to "Set Drop off Address"page.	Location: UTem Holdings Sdn	Radius:500 meters
		Screenshot of the test steps:	
	Key in the value for the	← Set Dropp Off Address	
5	location.	4, Lorong Setia 1,	Hi,Requested area does not cover the
		Melaka	restricted range of 500 meter radius

7	Perform step 3 and set the radius to 500 meters	
8	Inspect if the area preferred is	
	found within the radius set in	
	step 7.	
	1	

## Test Case ID- TS\_145: Verify whether test location 45 is either within the 500-meter radius or 1100-meter radius or both

Steps	Test Steps	Test Data/Test	Actual Result	
		Requirements		
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and	Screenshot of the test output: Radius: 1100 meters Toast	
2	Key in a value for the location.	tested to see if they fall within 1100 meters and 500	message:	
3	Extend the radius now. Set it to 1100 meters.	Radius:500,1100 meters	Hi Requested area does not cover the restricted range of 1100 meter radius	
4	Navigate to "Set Drop off Address"page.	Location: Kolej kediaman utem makmur	Radius:500 meters	
5	Key in the value for the location.	Screenshot of the test steps:	restricted range of 500 meter radius	
6	Inspect if the area preferred is found within the radius set in step 3.	Taman Äyer Keroh Heights, Melaka     Kolej kediaman utem <u>makmur</u>		
7	Perform step 3 and set the radius to 500 meters			
8	Inspect if the area preferred is found within the radius set in step 7.			
Test Case ID- TS_146: Verify whether test location 46 is either within the 500-meter radius or 1100- meter radius or both				
Steps	Test Steps	Test Data/Test Requirements	Actual Result	

1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	<u>Test Class C</u> : Locations that fall within 5000 meters in earlier test	Screenshot of the test output:
2	Key in a value for the location	locations are searched and tested to see if they fall	Toast message:
3	Extend the radius now. Set it to 1100 meters.	within 1100 meters and 500 meters of range respectively Radius:500,1100 meters	Hi,Requested area does not cover the restricted range of 1100 meter radius
		Location: Campus FTM and	
4	Navigate to "Set Drop off Address"page.	FKM Utem	Radius:500 meters
	Key in the value for the	Screenshot of the test steps:	
5	location.	← Set Dropp Off Address	Hi,Requested area does not cover the
6	Inspect if the area preferred is found within the radius set in step 3	4. Lorong Setti 1. Tamari Ayer Keroth Heights, Metata     Campus FTM and FKM Utem	restricted range of 500 meter radius
7	Perform step 3 and set the	A A A A A A A A A A A A A A A A A A A	
8	Inspect if the area preferred is found within the radius set in step 7.		
	ىليسىيا ملاك	يتي تيڪنيڪل ،	اونيۇس
	UNIVERSITI 1	EKNIKAL MALAYSIA	MELAKA
Test Ca	se ID- TS_147:Verify whether to	est location 47 is either within	the 500-meter radius or 1100-
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class C: Locations that fall within 5000 meters in earlier test	Screenshot of the test output:
2	Key in a value for the location.	cases. The same list of locations are searched and tested to see if they fall	Radius: 1100 meters Toast message:
3	Extend the radius now. Set it to 1100 meters.	within 1100 meters and 500 meters of range respectively Radius: 500 1100 meters	Hi,Requested area does not cover the restricted range of 1100 meter radius
4	Navigate to "Set Drop off Address"page.	Location: Composite Technology Research Malaysia	Radius:500 meters

5 6 7 8	Key in the value for the location. Inspect if the area preferred is found within the radius set in step 3. Perform step 3 and set the radius to 500 meters Inspect if the area preferred is found within the radius set in step 7.	Screeenshot of the test steps: • Set Dropp Off Address • I Lorong Setta 1: Taman Ayer Kerch Heights. • Composite Technology Research Malay	Hi,Requested area does not cover the restricted range of 500 meter radius
Test Cas meter rad	e ID- TS_148: Verify whether te dius or both	est location 48 is either within t	he 500-meter radius or1100-
Steps	Test Steps	Test Data/Test	Actual Result
	¥	Requirements	
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class C: Locations that fall within 5000 meters in earlier test	Screenshot of the test output: Radius: 1100 meters
2	Key in a value for the location.	cases. The same list of locations are searched and tested to see if they fall	Toast message:
3	Extend the radius now. Set it to 1100 meters.	within 1100 meters and 500 meters of range respectively Radius:500,1100 meters	Hi Requested area does not cover the restricted range of 1100 meter radius
4	Navigate to "Set Drop off Address"page.	Location: Cohu Malaysia Sdn Bhd	Radius:500 meters
5	Key in the value for the location.	Screenshot of the test steps:	Hi,Requested area does not cover the restricted range of 500 meter radius
6 7	Inspect if the area preferred is found within the radius set in step 3. Perform step 3 and set the radius to 500 meters	<ul> <li>Set Dropp Off Address</li> <li>4. Lorong Setia 1. Taman Ayer Keroh Heights. Meliska</li> <li>Cohu Malaysia Sdn Bhd</li> </ul>	
8	Inspect if the area preferred is found within the radius set in step 7.		
Test Ca meter ra	use ID- TS_149 :Verify whether adjus or both	test location 49 is either within	the 500-meter radius or 1100-

Steps	Test Steps	Test Data/Test	Actual Result
		Requirements	
1	Navigate to the "Range of	<u>Test Class C</u> :	
	areas covered" from the list of		Screenshot of the test
	menus popping	Locations that fall within	output:
	up upon opening the	5000 meters in earlier test	T T T
2	Ulawel.	cases. The same list of	De l'eser 1100 meters
2	location	tested to see if they fall	Radius: 1100 meters
3	Extend the radius new Set it	within 1100 meters and 500	Toast message:
5	to 1100 meters	meters of range respectively	
	to 1100 meters.		Hi Requested area does not cover the
			restricted range of 1100 meter radius
		Radius:500,1100 meters	restricted lange of 1100 meter radius
4	Navigate to "Set Drop off	······································	
	Address"page.		
	Key in the value for the	Location: Fun Bake	Radius:500 meters
5	location	Enterprise	Kadius.500 meters
5			
6	Inspect if the area preferred is		and a set of the set
-	found within		Hi,Requested area does not cover the
	the radius set in step 3.	Screenshot of the test steps:	restricted range of 500 meter radius
7	Perform step 3 and set the		
	radius to 500 meters	4. Lorong Setia 1, Taman Ayer Keroh Heights, Melaka	
8	Inspect if the area preferred is	Fun Bake Enterprise	
Ũ	found within the radius set in		
	step 7.		
	anno .		
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	UNIVERSITI	EKNIKAL MALAYSIA	MELAKA
Test Ca	ase ID- TS 150: Verify whether	test location 50 is either within	the 500
meter r	adius or 1100-meter radius or bo	th	
Steps	Test Steps	Test Data/Test	Actual Result
1	-	Requirements	
1	Navigate to the "Dance of	Test Class C:	
	areas covered" from the list of		Screenshot of the test
	menus popping up upop	Locations that fall within	
	opening the drawer	5000 meters in earlier test	output:
	opening the trawer.	cases. The same list of	
2		locations are searched and	Radius: 1100 meters Toast
-	Key in a value for the	tested to see if they fall	message.
	location.	within 1100 meters and 500	message.
3	Extend the radius now Set it	meters of range respectively	III Demonstrationer de constration alle
	to 1100 meters		HI, Requested area does not cover the
		Radius:500,1100 meters	restricted range of 1100 meter radius
		Location: Family Stora	

4	Navigate to "Set Drop off	Kipmart	Radius:5000 meters
	Key in the value for the		Radius. 5000 meters
5	location	Screenshot of the test steps:	
5	location.	Sereensher of the test steps.	and the second second
6	Inspect if the area	Cat Danage Off Address	Hi,Requested area does not cover the
	preferred is found within the		restricted range of 500 meter radius
_	radius set in step 3.	A.Lorong Stetta 1.     Tamara Ayer Keroh Heights,     Metaka	and the second se
7	Perform step 3 and set the radius to 500 meters	Store Kipmart	
8	Inspect if the area preferred is		
0	found within the radius set in		
	step 7.		
	ALAYSIA		
			1 700
Test Ca	use ID- TS_151 : Verify whether	test location 51 is either within	n the 500
meter ra	adius or 1100-meter radius or bo	th	
Steps	Test Steps	lest Data/lest	Actual Result
	-	Requirements	
1	2		
1	Navigate to the "Range of		Screenshot of the test
1	Navigate to the "Range of areas covered" from the list of	<u>Test Class C</u> :	Screenshot of the test output:
1	Navigate to the "Range of areas covered" from the list of menus popping up upon	Test Class C:	Screenshot of the test output:
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	Test Class C: Locations that fall within	Screenshot of the test output:
1	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test	Screenshot of the test output: Radius: 1100 meters Toast
1 2	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of	Screenshot of the test output: Radius: 1100 meters Toast message:
1 2	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tasted to see if they fall	Screenshot of the test output: Radius: 1100 meters Toast message:
1 2	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the RSITI location.	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500	Screenshot of the test output: Radius: 1100 meters Toast message:
1 2 3	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the
1 2 3	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters.	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively	Screenshot of the test output: Radius: 1100 meters Toast message: Hi,Requested area does not cover the restricted range of 1100 meter radius
1 2 3	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius: 500 1100 meters	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius
1 2 3	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius
1 2 3 4	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the <b>SITI</b> location. Extend the radius now. Set it to 1100 meters.	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak	Screenshot of the test output: Radius: 1100 meters Toast message: Hi,Requested area does not cover the restricted range of 1100 meter radius
1 2 3 4	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak	Screenshot of the test output: Radius: 1100 meters Toast message: Hi,Requested area does not cover the restricted range of 1100 meter radius
1 2 3 4	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak	Screenshot of the test output: Radius: 1100 meters Toast message: Hi,Requested area does not cover the restricted range of 1100 meter radius
1 2 3 4	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast
1 2 3 4 5	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast
1 2 3 4 5	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: Hi,Requested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast
1 2 3 4 5	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location.	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message:
1 2 3 4 5 6	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message:
1 2 3 4 5 6	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location. Inspect if the area preferred is found within the	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message:
1 2 3 4 5 6	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location. Inspect if the area preferred is found within the radius set in step 3.	<b>Test Class C:</b> Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message: HiRequested area does not cover the restricted range of 500 meter radius
1 2 3 4 5 6 7	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location. Inspect if the area preferred is found within the radius set in step 3. Perform step 3 and set the	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message: HiRequested area does not cover the restricted range of 500 meter radius
1 2 3 4 5 6 7	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location. Inspect if the area preferred is found within the radius set in step 3. Perform step 3 and set the radius to 500 meters	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message: HiRequested area does not cover the restricted range of 500 meter radius
1 2 3 4 5 6 7	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the SITI location. Extend the radius now. Set it to 1100 meters. Navigate to "Set Drop off Address"page. Key in the value for the location. Inspect if the area preferred is found within the radius set in step 3. Perform step 3 and set the radius to 500 meters	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters Location: Zanna Nasi Lemak Screenshot of the test steps:	Screenshot of the test output: Radius: 1100 meters Toast message: HiRequested area does not cover the restricted range of 1100 meter radius Radius: 500 meters Toast message: HiRequested area does not cover the restricted range of 500 meter radius

8	Inspect if the area preferred is found within the radius set in step 7.	Set Dropp Off Address     4. Googe Setts 8:     Taman Age Kinch Heights,     Lidas     Zanna Nasi Lemak	
Test Ca	use ID- TS_152 :Verify whether t	test location 52 is either within	the 500
Steps	Test Steps	tn Test Data/Test Requirements	Actual Result
1 2 3 4	Navigate to the "Range of areas covered" from the list of menus popping up upon opening the drawer. Key in a value for the location. Extend the radius now. Set it to 1100 meters.	Test Class C: Locations that fall within 5000 meters in earlier test cases. The same list of locations are searched and tested to see if they fall within 1100 meters and 500 meters of range respectively Radius:500,1100 meters SIA Location: Pantai Hospital Ayer Keroh	Screenshot of the test output: Radius: 1100 meters Toast message: Hi Requested area does not cover the restricted range of 1100 meter radius
4	Navigate to "Set Drop off Address"page.		Radius:500 meters
5	Key in the value for the location.	Screenshot of the test steps: ← Set Dropp Off Address	Hi,Requested area does not cover the
6	Inspect if the area preferred is found within the radius set in step 3.	4. Lorong Setta 1. Tarnan Ayer Kerch Heights. Metisa     Pantain Hospital Ayer kerch	restricted range of 500 meter radius
7	Perform step 3 and set the radius to 500 meters		
	1	J	I I

8		]	
0	Inspect if the area preferred is found within the radius set in		
	step 7.		
	1		
Test Ca format.	ise ID- TS_153: For the driver's	application, verify login with a	n incorrect email
Steps	Test Steps	Test Data/Test	Actual Result
	-	Requirements	Email address is not in valid
1	Naviagate to login page.	Email:testemail Password:Abc12345@	format.
2	Insert an email with an incorrect format.	Test email field with an incorrect email format not	Screenshot of the test output below:
3	Insert a valid password	containing @. Screenshot of the test steps:	I del
4	Press the login button	ę	testemail
-		- Zhui tëstemail	Parrent
		Passent	
			Login
	SAMO -	Login	Do not have an account. Register Here.
	621 1	Varia .	. 1
	ليسيا ملاك	یتی پیکسیکل	End uttries is not in correct format
	UNIVEDRITI		MELAKA
	UNIVERSIT	ERNIKAL WALAT JIA	WIELANA
Test Ca	luse ID- TS_154:For the driver's a	application,verify login with an	unregistered email.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1		Use unregistered email and	Failed to login to the firebase
1	Navigate to Login page.	a valid password.	database- unable to match any
	Enter a wrong email not registered among the Firebase	Email:wrongemail@gmail.	of the data in the list of
2	uid in the	Com Deseword: Abo12245@	registered users. The error
	database	1 asswolu. AUC12343@	message
3	Enter any password in valid format i e a mix of	Screenshot of the test	says "Sorry either the
	uppercase, lowercase and		

	special characters.	steps: e	mail or password is not
4	Press Login Button	V. Birmi	alid. Please try again."
5	Navigate to Login page.	Paumaré S Login	creenshot of the output elow:
			Email wrongemail@gmail.com Password Login
	1 AVer		Do not have an account.Register Here. Somy, either the email or the password is not valid Please retry
	UNIVERSITI T	<b>UTG</b> سيتي تيڪنيڪل EKNIKAL MALAYSIA N	اونيومر، IELAKA
Test Ca	se ID- TS 155 For the driver's a	upplication verify login Empty en	nail and an empty password
Steps	Test Steps	Test Data/Test Requirements:	Actual Result
1	Navigate to login page.	Email:null Password:null	The error message pops up "Sorry, both email &
2	Leave the email field blank.	Email: The email field is left empty.	Password is required."
3	Leave the password field blank.	Password: The password field is left empty. Screenshot of the test steps:	output below:
4.	Press the login button		

		Email Password 🗞	Email Password Login Do not have an account.Register Here.
		Do not have an account.Register Here.	Sorry,both email & Password is required.
	UNIVERSITI T	<b>UTE</b> رسيتي تيڪنيڪل EKNIKAL MALAYSIA ME	اونيوم LAKA
Test Ca	ase ID- TS_156:For the driver's a	application, verify login with an em	pty password only.
Steps	Test Steps	Test Data/Test Requirements:	Actual Result
1	Navigate to login page	Email:testingemail@gmail.com Password:null Test Password field with null value. Key in a valid email in the email field.	An error message is displayed and it says "Password is mandaroty." Screen shot of the test output:

2	Enter valid amail		testingemail@gmail.com Password Login Do not have an account Register Here. Password is Mandatory
3	Leave the password field blank. Press "Login" button	Test both the email and password fields with a valid email and null value for the password	
	The MALAYSIA	Screenshot of the test steps:	م اونبوم
Test Ca valid pa	se ID- TS_157:For the driver's a assword.	application, verify login with a valid	l email and a
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to Login Page	Email:testingemail@gmail.com Password:Abc12345@	A success message pops up saying "You are logged in now".
2	Enter valid email	Test email field with email in correct format and key in a valid	
3	Enter valid password	passoword.Test Data/Test	
4	Press "Login" button	Screenshot of the test steps:	

Test Case ID- S158:For the driver's application, verify login with an email not containing "."



ase ID- TS_158:For the driver	's application, verify registratio	on keeping all the fields' values
)8	a/Test Requirements	lesult
Navigate to Registration Page.	Phone:null Email:null Password:null	displayed says, "All the fields are required. Please key in your
UNIVERSITI	TEKNIKAL MALAYSI	A MELAKA Screenshot of the test elow:

3	Leave the name password		
	field empty.		
4	Leave the email field empty.		
5	Leave the phone field empty	Screenshot of the test steps:	
		Name	
		Phone	
		Email	
		Password	
		Register Now	
		Already have an account.Login Here.	
Test Ca	ase ID- TS_159:For the driver'	s application, verify registration with al	l fields emptyexcept the name
field. Steps	Test Steps	Test Data/Test Requirements	Actual Result
1			
1	Navigate to registration		An error message is displayed says "All
	page.		fields are required.Please
	5Mal	1.16:5:3:4	key
2	Fill in the name field.		in your data to register
	UNIVERSI	Name:Habeeb E Sadeed	
3	Leave the phone field	Phone null	-
5			
	blank.		Screenshot of the test output

4	Leave the email field blank.	]	below:
		Email:null	
			Name
			Habeeb E Sadeed
			Phone
			Email
			Password
			Register Now
			All fields are required. Please key in your
			data to register details
5	Leave the password	Password-null	
5	field blank	i assword.hum	
	MALATS/	Screenshot of the test steps	
	27	Hame Habeeb E Sadeed	
	No.	Phone	
	۳		
	E =	Email	
		Password	
	AININ		
	chi (	Register Now	
	سبا ملاك	رستني بيكسيكي ملا	اويتو
		Already have an account.Login Here.	64 -
	UNIVERSIT	I TEKNIKAL MALAYSIA ME	LAKA
Test Car	D TS 160. Ear the driver?	a malipation worify whathan the compact	longth for
the phor	be data is 10	s application, verify whether the correct	length for
Stens	Test Steps	Test Data/Test	Actual Result
Steps		Requirements	ricitian Result
1	Navigate to registration	Name:null	An error message is
	page.	Phone:0146116618	displayed says "All
		Email:null	
		Password:null	
-		Screenshot of the test steps:	
2	Leave the name field blank.		fields are
			required.Please key
2	Fill in the field for the	4	in your data ta
S	rin in the field for the		in your data to
	phone.	J	register details . Screensnot

4	Leave the email field blank.	Name	of the test output below:
		Phone 0146116618	
		Email	Ctrl) 🗸
		Password	Prove 0146116618
			Email
		Register Now	Dassuper
		Alizado baix ao assaunt Lada Mara	Pasworu
		Aiready have an account Login Here.	Register Now
			Aiready have an account, Login Here. All fields are required. Please key in your data to senicitar details
			wate to register veteria.
5	Leave the password field blank.		
T G			<b>N</b> 1 1
Test Ca	use ID- 15_161:For the driver'	s application, verify whether the phone f	neid accepts arecharacter or
Steps	Test Steps	Test Data/Test	Actual Result
Dieps	Test Steps	Requirements	rietuur result
1	Navigate to the register page	Key in a non integer values in the	An error message is
		phone field.	displayed says "The
2	Leave the name field blank.		field for the phone must
	* 3Allug	Name:null	contain numbers".
2	Eill in the field for these	Phone:abc	
3	Fill in the field for phone.	Password:null	اوييق
	UNIVERSI	I TEKNIKAL MALAYSIA ME	Screenshot of the test
			output below:
			Name
1	I gove the smail field blank	-	n abc
4	Leave the email field blank.		Email
		Screenshot of the test steps:	Password
		Name	Register Now
		Phone	Already have an account.Login Here.
			The field for the phone must contain numbers
		Email	
		Password	
		Register Now	
		Already have an account.Login Here.	
5	Leave the password		
Test C	Including the second se	minimum mathematical to the second state of the	d agagents
length /	10-5102: For the driver's a of digits below 10	pplication, verify whether the phone fiel	u accepts
pengui (	n uigits bolow 10.		

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to registration page.	Key in a phone number for which the number of digits <10.	An error message is displayed saying"Phone numbers must be 10 digits".
2	Leave the name field blank.	Phone: 01461166	
		Screenshot of the test output:	Screenshot of the test output below:
		Name	Name II
		Prow 01461166	Phone 01461166
		Email	Email
		Password	Password
		Register Now	Ctrl) -
			Register Now
		Aiready nave an account.Login Here	Already have an account.Login Here,
	MALAYS	440	Phone number must be 10 digits
3	Fill in the field for the phone.		
4	Leave the email field blank		*
5	Leave the password field blank	رسيتي نيڪنيڪل ملب	اوىيۇم
Test Ca	ase ID- TS_163:For the driver'	s application, verify whether the email f	ields accept
anemai Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	Email: testemailgmail.com	The error message is
		Key in the value for this field. The	displayed saying "Email address is not in
2	Leave the name field blank.	value should not contain "@". Screenshot of the test steps:	correct format". Screenshot of the test output
3	Leave the phone field blank	Name	below:
4	Fill the field for email.	Phone	Name :
5	Leave the password	ima testingemailgmail.com	Phone
	field blank.	Password	Insi Testingemail.com
6	Press the "Register Now"	Register Now	Password
		Already have an account Looin Here.	Register Now
		Parency neve on account.cogin mere.	Already have an account Login Here.
			Email Address is not in correct format.

		]	
Test Ca	se ID- TS_164:For the driver'	s application, verify whether the email c	containing"@" but does not
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page	Email: testemail@gmail.com	The error message is displayed saying "Email address is not in the
2	Leave the name field blank.	Kay in the yelve for this field	of the test output below:
		containing "@" but excluding "."	Name
3	Leave the phone field blank.		Phone Inst testemail@gmailcom
	and the second se	Screenshot of the test steps:	Passard
4	Leave the email field blank.		Register Now
	The A		Email Address is not in correct format.
5	Leave the password field	testemail@gmail.com	
	سبا ملاك	رستى تىكىنكى مىر	اونىۋە
6	Press the "Register Now"		
	ONIVERSI	Already have an account.Login Here.	
Test Ca	use ID- TS 165 For the driver'	s application verify whether the passwo	rd has 8characters in length
1050 00		s appreadon, venty whether the passwo	
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	Test if the password of below 8 characters in length is valid.	The error message pops up saying "The password must be at least 8 characters in
2	Leave the name	Password:Abc1234 (7 characters).	length."
	field blank.	Screenshot of the test steps:	Screenshot of the test output
3	Leave the phone field blank.		below:

4	Leave the email field blank.	Name Phone	
5	Fill in the field for the	Email	
	password.	Passwich) Abc1234 O	Name
			Phone
		Register Now	Email
		Already have an account.Login Here.	Pacoward Abc1234
			Register Now
			Already have an account Login Here.
			Password must be alleast 8 Charachters
		-	
6	Click on the "Register Now"		
Test Ca	putton. se ID- TS 166 ·For the driver	s application verify whether the passwo	ord contains
a mixtu	re of uppercase, lower case, nu	imbers and special characters where at lo	east one of these criteria is
missing	•	1	
Steps	Test Steps	Test Data/Test	Actual Result
1	Noviente te the meistration	Requirements	
1	Navigate to the registration	l est if the password contains the	The error message pops up
		inixiate of upper case retters, lower	be a
	I some the name field blowly	and but on any the set of a second	win of anywhere ware and
2	Leave the name field blank.	characters	lower case characters "
	AINO		iower ease characters.
	sh1.	Key in an alphanumeric value for the	Screenshot of the test output
	سب مارك	password with no uppercase characters.	below:
		Decomposite at a 12245 ( 9 alternations and	Name
	UNIVERSI	no upper case)	AKA
3	Leave the phone field blank.	Screenshot of the steps below:	Email
		-	nasenal abc12345
			Register Now
		Phone	Register How
4	Leave the email field blank.	Email	Already have an account Login Here. Password must be a mix of numbers, upper
		Paravata abc12345	Cese a ruver case Uniterine a
		Register Now	
5	Fill in the password field	register from	
5	i in in the password field.	Already have an account.Login Here.	
6.	Click on the "Register		
	button"		
Test Ca	se ID- TS_167: For the driver	's application, verify whether the passwo	ord contains a
a mixtu	re of uppercase, lower case ,nu	umbers and special characters where at lo	east one of these criteria is
missing			

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to registration page.	Test if the password contains a mixture of upper case letters,lower case letters,number and a special characters. Key in an alphanumeric value for the password with no lowercase characters.	The error message pops up saying "The password must be a mix of numbers, upper and lower case characters." Screenshot of the test output below:
		Password: ABC12345( 8 characters and no upper case).	Name
		Screenshot of the steps below:	Email
		Name	Passend ABC12345
		Phone	
		Ernail	Register Now
		ABC12345	Already have an account.Login Here.
	MALAYSI	Register Now	case & lower case charachters
	and the second se	Already have an account_Login Here.	
2	Leave the name field blank.		
3	Leave the phone field blank.		
4	Leave the email field blank.		
5	Fill in the field for password.	رسيتي بيڪنيڪل مدي	اوييق.
6.	Click on the "Register RSII button"	I TEKNIKAL MALAYSIA ME	LAKA
Test Cas	e ID- TS 168. For the driver'	s application verify whether the passwo	ord contains a mixture of
uppercas	se, lower case, numbers and sp	ecial characters where at least one of the	ese criteria is missing.
Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	Test if the password contains a mixture of upper case letters, lower case letters, numbers, and special characters.	The error message pops up saying "The password must be a mix of numbers, upper
2	Leave the name field		and lower case characters."
	empty.	Key in alphanumeric value for the password having both upper and lower	Screenshot of the test output
3	Leave the phone field	case characters but no special	below:
	empty.	characters.	
4	Leave the email field	Password: Abc12345	
5	empty. Fill in the field for	Screenshot of the steps below:	
	n ni ule nelu lor	servenisher of the steps below.	
6	Click on register		

	button	Name			
		Phone		Natw	
		Ernal		Piore.	
		Abc12345	Ð	Eril.	
		Register Now		hourt	0
				ABC 12 (HD	
		Already have an account Login Here,		Register Now	
				Arreste have an account Looke Here.	
				Passeori must be a mis of numbers upper case & lower case characters	
	AR MALAY	and Hele			
Test Cas	e ID- TS_169 For the driver	's application verify wh	ether the passwo	rd contains a mix	ture of
uppercas	e, lower case , numbers and	special characters where	at least one of th	nese criteria is mis	sing.
-rr	E				
Steps	Test Steps	Test Data/Test Require	ments	Actual Result	

1/1/10	1	
Navigate to register page.	Test if the password contains a mixture of upper case letters, lower case letters,	The error message pops up saying "All fields are
	numbers, and special characters.	required.Please key in your
Leave the name field empty.	I TEKNIKAL MALAYSIA ME	data to register
Leave the phone field empty.	Key in alphanumeric value for the password having both upper and lower	details."
Leave the email field empty.	character.	Screenshot of the test output below:
Fill in the password field.	Password: Abc12345@	Name
6 Click the register button.	Screenshot of the steps below:	Phone Email Pessard
	Name	Abc12345@
	Phone	Register Now
	Email newsend Abc12345@	Already have an account Login Here. All fields are required. Please key in your data to register details
	Register Now	
	Already have an account.Login Here.	
	Navigate to register page.         Leave the name field empty.         Leave the phone field empty.         Leave the email field empty.         Fill in the password field.         Click the register button.	Navigate to register page.       Test if the password contains a mixture of upper case letters, lower case letters, numbers, and special characters.         Leave the name field empty.       TEKNIKAL MALAYSIA ME         Leave the phone field empty.       Key in alphanumeric value for the password having both upper and lower case characters but atleast one special character.         Fill in the password field.       Password: Abc12345@         Click the register button.       Screenshot of the steps below:         Navies       Ploute         Register Now       Atrendy have an account Login Here.

Test Case ID- TS\_170: For the driver's application, verify whether all the fields on the registration page accept valid inputs.

Steps	Test Steps	Test Data/Test Requirements	Actual Result
1	Navigate to register page.	Fill in all the fields with valid inputs. Name: Habeeb E Sadeed Phone:0146116618	A new record is created. The user is successfully
2	name.	Password:Abc12345@	database of driver's.
3	Fill in the field for phone.	Screenshot of the test steps:	New user UID in firebase:
4	Fill in the field for email	Habeeb E Sadeed Phone 0146116618 Final habaeb001468cmail.com	tien Spinnstel Ingen lang € Programmen in et internationen internation
5	Fill in the field for password.	Persward Oct 2345	A new node is created for this user in the database:
0	Linck on the register button.	Register Now Already have an account Login Here.	اونيود م
	UNIVERSI		<ul> <li>Jedt@SJeACWLNslqk4mJNG4DSbq2</li> <li>BwK30ACkmHTWdEoMDkkXwlNy9H73</li> <li>JkUyu9IAIY0fwusJ2ZTatKNdQv2</li> <li>RESPsYR0yMhBHjrwfBbGRH11082</li> <li>mame: "habeeb9916@mail.com" name: "habeeb E Sadeed" phone: "8146116618"</li> <li>HiKILb6bkYbCrdu9uZQQJFVRsip1</li> </ul>
			Success page:


6.6 Test Results and Analysis

Table 6-6 Test Results and Analysis

Test Case ID-	Tester ID:	Test Case Result
TS_1	TS04	Success
TS_2	TS04	Success
TS_3	TS04	Success
TS_4	TS04	Success
TS_5	TS04	Success

	TS_6	TS04	Success	
	TS_7	TS04	Success	
	TS_8	TS04	Success	
	TS_9	TS04	Success	
	TS_10	TS04	Success	
	TS_11	TS04	Success	
	TS_12	TS04	Success	
	TS_13	TS05	Success	
	TS_14	TS05	Success	
	TS_15	TS05	Success	
	TS_16	TS05	Success	
	TS_17	TS05	Success	
	TS_18	TS05	Success	
	TS_19	TS05	Success	
ST.	TS_20	TS05	Success	
N. N.	TS_21	TS05	Success	
F	TS_22	TS06	Success	
685	TS_23	TS06	Success	
1	TS_24	TS06	Success	
للك	TS_25	TS06	Success	اوز
	TS_26	TS06	Success	
UNIV	TS_27TI TEKI	TS06 – MA	Success A MELA	KA
	TS_28	TS06	Success	
	TS_29	TS06	Success	
	TS_30	TS06	Success	
	TS_31	TS06	Success	
	TS_32	TS07	Success	
	TS_33	TS07	Success	
	TS_34	TS07	Success	
	TS_41	TS08	Success	
	TS_42	TS08	Success	
	TS_43	TS08	Success	
	TS_44	TS08	Success	
	TS_45	TS08	Success	
	TS_46	TS08	Success	
	TS_47	TS09	Success	
	TS_48	TS09	Success	

TS_49	TS09	Success
TS_50	TS09	Success
TS_51	TS09	Success
TS_52	TS09	Success
TS_53	TS09	Success
TS_54	TS09	Success
TS_55	TS09	Success
TS_56	TS09	Success
TS_57	TS09	Success



TS_58	TS09	Success	
TS_59	TS09	Success	
TS_60	TS09	Success	
TS_61	TS09	Success	
TS_62	TS10	Success	
TS_63	TS10	Success	
TS_64	TS10	Success	
TS_65	TS10	Success	
TS_66	TS10	Success	
TS_67	TS10	Success	
TS_68	TS10	Success	
TS_69	TS10	Success	
TS_70	TS10	Success	
TS_71	TS10	Success	
TS_72	TS10	Success	
TS_73 💈	TS10	Success	
TS_74	TS10	Success	
TS_75	TS10	Success	
TS_76	TS10	Success	
TS_77	TS11	Success	اود
TS_78	TS11	Success	a
TS_79TITEKI	TS1AL MA	Success A MELA	KA
TS_80	TS11	Success	
TS_81	TS11	Success	
TS_82	TS11	Success	
TS_83	TS11	Success	
TS_84	TS11	Success	
TS_85	TS11	Success	
TS_86	TS11	Success	
TS_87	TS11	Success	
TS_88	TS11	Success	
TS_89	TS11	Success	
TS_90	TS11	Success	
TS_91	TS11	Success	
TS_92	TS12	Success	
TS_93	TS12	Success	
	$\begin{array}{c} {\rm TS}_{58} \\ {\rm TS}_{59} \\ {\rm TS}_{60} \\ {\rm TS}_{61} \\ {\rm TS}_{62} \\ {\rm TS}_{63} \\ {\rm TS}_{64} \\ {\rm TS}_{65} \\ {\rm TS}_{66} \\ {\rm TS}_{67} \\ {\rm TS}_{68} \\ {\rm TS}_{69} \\ {\rm TS}_{70} \\ {\rm TS}_{71} \\ {\rm TS}_{72} \\ {\rm TS}_{73} \\ {\rm TS}_{74} \\ {\rm TS}_{75} \\ {\rm TS}_{76} \\ {\rm TS}_{77} \\ {\rm TS}_{78} \\ {\rm TS}_{78} \\ {\rm TS}_{79} \\ {\rm TS}_{80} \\ {\rm TS}_{81} \\ {\rm TS}_{82} \\ {\rm TS}_{83} \\ {\rm TS}_{84} \\ {\rm TS}_{85} \\ {\rm TS}_{86} \\ {\rm TS}_{87} \\ {\rm TS}_{88} \\ {\rm TS}_{88} \\ {\rm TS}_{88} \\ {\rm TS}_{89} \\ {\rm TS}_{91} \\ {\rm TS}_{92} \\ {\rm TS}_{93} \\ \end{array}$	TS_58TS09TS_59TS09TS_60TS09TS_61TS09TS_62TS10TS_63TS10TS_64TS10TS_65TS10TS_66TS10TS_67TS10TS_68TS10TS_70TS10TS_72TS10TS_73TS10TS_74TS10TS_75TS10TS_76TS10TS_77TS11TS_78TS11TS_78TS11TS_80TS11TS_81TS11TS_84TS11TS_85TS11TS_86TS11TS_87TS11TS_88TS11TS_90TS11TS_90TS11TS_91TS11TS_92TS12	TS_58 TS09 Success   TS_59 TS09 Success   TS_60 TS09 Success   TS_61 TS09 Success   TS_62 TS10 Success   TS_63 TS10 Success   TS_64 TS10 Success   TS_65 TS10 Success   TS_66 TS10 Success   TS_68 TS10 Success   TS_70 TS10 Success   TS_71 TS10 Success   TS_72 TS10 Success   TS_73 TS10 Success   TS_74 TS10 Success   TS_75 TS10 Success   TS_76 TS10 Success   TS_76 TS10 Success   TS_78 TS11 Success   TS_80 TS11 Success   TS_81 TS11 Success   TS_83 TS11 Success   TS_84 TS11 Success   TS_84 TS11 Success   TS_86 T

		TS_94	TS13	Success	
	TS_95	TS13	Success		
	TS_96	TS13	Success		
	TS_97	TS13	Success		
		TS_98	TS13	Success	
		TS_99	TS13	Success	
		TS_100	TS13	Success	
		TS_101	TS14	Success	
		TS_102	TS14	Success	
		TS_103	TS14	Success	
		TS_104	TS14	Success	
		TS_105	TS14	Success	
		TS_106	TS14	Success	
	-03	TS_107	TS14	Success	
	35	TS_108	TS14	Success	
	NN:	TS_109 🎽	TS14	Success	
	E .	TS_110	TS14	Success	1
	T. Ba	TS_111	TS14	Success	
	~1)	TS_112	TS14	Success	
	للك	TS_113	TS14	Success	اود
		TS_114	TS14	Success	
	UNIVI	TS_115 TEK	TS14 A	Success A HELA	KA
		TS_116	TS15	Success	
		TS_117	TS15	Success	
		TS_118	TS15	Success	
		TS_119	TS15	Success	
		TS_120	TS15	Success	
		TS_121	TS15	Success	
		TS_122	TS15	Success	
		TS_123	TS15	Success	
		TS_124	TS15	Success	
		TS_125	TS15	Success	
		TS_126	TS15	Success	
		TS_127	TS15	Success	
		TS_128	TS15	Success	
		TS_129	TS15	Success	

	TS_130	TS15	Success	
	TS_131	TS15	Success	
	TS_132	TS15	Success	
	TS_133	TS16	Success	
	TS_134	TS17	Success	
	TS_135	TS17	Success	
	TS_136	TS17	Success	
	TS_137	TS17	Success	
	TS_138	TS17	Success	
	TS_139	TS17	Success	
	TS_140	TS17	Success	
	TS_141	TS17	Success	
	TS_142	TS17	Success	
	TS_143	TS17	Success	
57	TS_144	TS17	Success	
N.	TS_145 💈	TS17	Success	
E -	TS_146	TS17	Success	1
Field	TS_147	TS17	Success	
- 44	TS_148	TS17	Success	
للك	TS_149	TS17	Success	igl
	TS_150	TS17	Success	. ~
UNIV	TS_151 TEK	TS17 L MA	Success A MELA	KA
	TS_152	TS18	Success	
	TS_153	TS18	Success	
	TS_154	TS18	Success	
	TS_155	TS18	Success	
	TS_156	TS18	Success	
	TS_157	TS18	Success	
	TS_158	TS18	Success	
	TS_159	TS18	Success	
	TS_160	TS18	Success	
	TS_161	TS18	Success	
	TS_162	TS18	Success	
	TS_163	TS18	Success	
	TS_164	TS18	Success	
	TS_165	TS18	Success	
				i i

TS_166	TS18	Success
TS_167	TS18	Success
TS_168	TS18	Success
TS_169	TS19	Success
TS_170	TS19	Success

Test Class A- Description of the Test Cases-ID: Starting from TS\_101 to TS\_122

Test Class B- Description of the Test Cases-ID: Starting from TS\_123 to TS\_142

Test Class C- Description of the Test Cases-ID: Starting from TS\_143 to TS\_152

In line with our discussion in Table 6.4 the test cases conducted for the above these case ID's results in the following statistical output. The graph below shows the overall output of all the test case



executions of CarPool RestA.



Figure 6-2- Results of Google form surveys derived from feedbacks of 50 participants

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75% of the participants felt that the application is UI friendly and highly effective. 14% of the participants felt that both the idea and application felt very new to them. 11% of the participants felt that the application required improvements.

**6.7** Conclusion

In conclusion, this section describes the technique used to test and verify the system to ensure that its quality meets all criteria. It is a big move before actual consumer implementation. The test plan includes several tests that examine different elements of the system. The test plan is made up of several tests that examine various system aspects. The following chapter would be the last to describe the system's shortcomings and strengths.

# **CHAPTER 7: CONCLUSION**

### 7.1 Observation on Weaknesses and Strengths

The limitations and strengths of this method will be discussed further below.

### 7.2 Strength

- Users can access this system from anywhere as long as they have an internet connection in their environment, which is the case with this system because it is a mobile one.
- The system provides a priority ride service.
- The system provides a phone call feature as a quick way to communicate between the rider and a driver.
- The system is limited to be used within a set radius.

AALAYSIA

- The system provides a notification service and live tracking features.
- The system is very fast and easy to use.

# **UNIVERSITI TEKNIKAL MALAYSIA MELAKA**

• The system provides open income opportunities for anyonechoosing to become a driver.

#### 7.2.1 Weaknesses

Because of the system's insufficient security, it is still feasible for information to be leaked.

#### 7.2.2 Propositions for Improvement

It is still conceivable to improve the system, even though it has met all users' criteria since user requirements vary with time. To ensure that sensitive information remains secure, it is necessary to strengthen the security of the network. The system'scapabilities can be further increased with the addition of a notifications service to update the driver on the rider's status after dropping him off at his destination. Depending on the after-drop quality, the driver might choose to off his rider further assistance if required.

#### 7.2.3 Project Contribution

This project is designed to assist the residents of Malaysia. It serves all peoplein a social setup, especially those who do not have transport of their own which causesthem to face troubles daily. The second group of people hails from all walks of life and, at times, might see the need for an emergency ride service during peak days. Theproject might therefore be a starting point opening a window of opportunities for prospective drivers next door. Those who will be using this service might be of great relief during critical moments in their lives.

# 7.3 Conclusion UNIVERSITI TEKNIKAL MALAYSIA MELAKA

In conclusion, the project's goal and the primary difficulty identified earlier inthis report have both been met and resolved successfully. However, it will take more time and effort to improve the system to be more efficient and complete in the future.

### REFERENCES

[1] 4 Challenges Uber will face in the coming years

<<u>https://www.investopedia.com/articles/investing/072215/4-challenges-uber-will-</u> years.asp>

[2] Your guide to Agile Software Development Life cycle.

< https://www.easyagile.com/blog/agile-software-development-life-cycle >

[3] How to write a good test case in Software Engineering?

<https://www.easyagile.com/blog/agile-software-development-life-cycle/>



[1] Challenges faced by Uber drivers and consumer satisfaction in Pune city.

<<u>https://www.worldwidejournals.com/global-journal-for-research-analysis-</u> GJRA/recent\_issueTS\_pdf/2018/February/February\_2018\_1518701910\_52.pdf >

[2] To Grab or Not to Grab? Passenger ride intention towards e-hailing services

<<u>https://www.worldwidejournals.com/global-journal-for-research-analysis-</u> GJRA/recent\_issueTS\_pdf/2018/February/February\_2018\_1518701910\_52.pdf>

[3] The sharing economy: An analysis of ride-hailing services in Penang

<u>(PDF) The Sharing Economy : An Analysis of Ride-Hailing Services in Penang</u> (researchgate.net)>

[4] 8 Other Ride-Hailing Apps To Choose From Instead Of Grab

<<u>https://hype.my/2019/166064/ride-hailing-apps-grab/></u>