SWEET SCAPE : VENDOR DESSERT MANAGEMENT SYSTEM



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This report is submitted in partial fulfillment of the requirements for the Bachelor of [Computer Science (Database Management)] with Honours.

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2024

DECLARATION

I hereby declare that this project report entitled

[SWEET SCAPE : VENDOR DESSERT MANAGEMENT SYSTEM]

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



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.

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Fathin

Date : ____ 31 Aug 2024

(Ts. Fathin Nabilla Md Leza)

DEDICATION

I would like to convey my special dedication,

To my parents,

Thank you for always support me during my bachelor's degree.

To my friends,

Thank you for being through bittersweetness, and happiness during our journey. We have made this journey memorable and enjoyable and blessed to have you guys as one of my support system.

To my lectures,

Thank you for always trusting me. I appreciated it so much.

To my supervisor,

Thank you for your guidance and support. Thank you for being one of the reason why i still continued.

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ABSTRACT

Sweet Scape : Vendor Dessert Management System is to aims to address the operational challenges faced by sellers managing food and dessert products sourced from vendors, particularly catering to B40, M40, and T20 groups. Currently, sellers manually record product receipts without comprehensive knowledge of quality parameters such as ingredients and expiry dates. This lack of oversight leads to inconsistent product quality and inventory management issues. Sweet Scape proposes a comprehensive system to streamline vendor management, enhance product quality control, and improve customer service through online purchasing capabilities. The system features modules for vendor inventory management, staff supervision, customer orders, administration and reporting using Power BI analytics. By implementing Sweet Scape, sellers and vendors can achieve operational efficiency, ensure product quality consistency, and meet the dynamic demands of the food sector effectively.

ABSTRAK

Sweet Scape: Sistem Pengurusan Pembekal Kuih Bertujuan untuk menangani cabaran operasi yang dihadapi oleh penjual yang menguruskan produk makanan dan pencuci mulut yang diperoleh daripada pembekal, terutamanya untuk kumpulan B40, M40, dan T20. Pada masa ini, penjual merekodkan penerimaan produk secara manual tanpa pengetahuan menyeluruh mengenai parameter kualiti seperti bahan dan tarikh luput. Ketiadaan pengawasan ini menyebabkan ketidakseragaman kualiti produk dan isu pengurusan inventori. Sweet Scape mencadangkan sistem komprehensif untuk menyusun pengurusan pembekal, meningkatkan kawalan kualiti produk, dan meningkatkan perkhidmatan pelanggan melalui kemampuan pembelian dalam talian. Sistem ini merangkumi modul untuk pengurusan inventori pembekal, pengawasan kakitangan, pesanan pelanggan, dan pelaporan pentadbiran menggunakan analitik Power BI. Dengan melaksanakan Sweet Scape, penjual dan pembekal dapat mencapai kecekapan operasi, memastikan konsistensi kualiti produk, dan menangani keperluan

dinamik sektor makanan dengan berkesan.

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Appendix A System Interface Design

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CHAPTER 1: INTRODUCTION

1.1 Project Background

In the current era it is going viral where sellers sell food and dessert from vendors consisting of B40, M40 and T20 groups. When the vendor sends food to the seller's store, the seller only records manually the products sent by the vendor. The seller does not even know the quality of the food sent by the vendor in terms of ingredients, expiry dates and so on. The vendor simply dispatches the food and awaits the seller to generate profit from its sale, without being informed about the quantity of desserts sold or any damaged products.

Sweet Scape is a system that allows solving the issue from vendors that present from the B40 and M40 group who can only access the system from their devices. Through this system, the seller can control the quality of the product, the vendor can also know about the stock of products and the customer can make purchases online.

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1.2 Problem statement

There are some problems that have been identified for the current system:

I. Difficult to maintain consistent quality standards for their products sourced from different vendors, leading to variations in quality that impact customer satisfaction. This also causing vendors maintain accurate information about their products, including quantity, expiry dates, and stock availability.

- II. Lack an efficient and integrated system for vendors, seller and customer caused a challenge in managing multiple vendors supplying different types of food products
- III. Difficult to measure to track key performance indicators (KPIs) and sales relevant to their business goal

1.3 Objective

- I. To monitor and maintain high-quality standards for all desserts products supplied by vendors, thereby enhancing customer satisfaction and loyalty.
- II. To improve vendor management tasks, improve collaboration with multiple vendors, and optimize the supply chain to ensure consistent availability of diverse dessert options for customers.
- III. To provide accurate analysis of vendor reports, sales orders using Power BI analytic dashboard for better decision-making and tracking key performance indicators relevant to their business goals.

1.4 Scope

1.4.1 Target Users

The scope of the system is divided into target user and modules.

- I. Vendor
 - To update their profile
 - To allow vendor manage their inventory by adding, updating, and deleting products
 - To retrieve and display their sales data.

II. Admin

- To allow admin access reports in Power BI to stay updated
- To update customer & vendor profile
- To allow monitor the inventory and quality of vendor products
- To allow manage sales records.

• Customer is a person who bought the products sold by Sweet Scape. They can browse their menu to order foods and dessert.

1.5 Modules

I. User Management Module

- It allows users to log in securely, update their profile information, and reset passwords if needed.
- Admins have additional capabilities to manage user roles and permissions.
- Vendor can register and update their details

II. Product Catalog Module

- Vendors can describe the details of their products and ingredients, weight, brands, price, number of stock provided.
- Staff check and confirm the product details provided by vendors.
- It enables vendors to add, update, and delete their products.
- Vendor can check their products stock availability
- Customers can browse and search for products they wish to purchase.

III. Order Management module

- Vendors This module facilitates the entire order lifecycle, from order placement to fulfillment.
- Customers can place orders
- Staff receive and process orders, while staff manage inventory level

IV. Communication module

• It includes features such as alerts to keep users informed about important updates, such as inventory updates like product expired.

V. Report module

• Admins can design customized reports and dashboards using Power BI's intuitive interface, incorporating key metrics and visualizations relevant to their business goals

- Staff members can access real-time insights and trends through Power BI reports, enabling informed decision-making and performance monitoring.
- Vendors can also benefit from Power BI reports tailored to their products, helping them track sales performance and identify areas for improvement.

1.5 **Project Significance**

The significance of this project is to propose an improved and efficient vendor management system and sales allign with small-medium food industry for Sweet Scape. This project centralized all desserts and food that vendor in Sweet Scape offers. Customers can browse the menu and purchase them easily without the need to go out. Vendor also can sell their products by register with Sweet Scape and add their products. By proposing this project, Sweet Scape can approach and attract wider audience as it is easier to browse.

1.6 Expected Output

The expected outcome of Sweet Scape is a system that is easy to use but still systematic where sellers can manage the products stocks availability from their vendors. Customer also can make order anywhere and anytime they want from home.

1.7 Conclusions

In nutshell, this chapter introduces the system that will be developed. It also provides background information about Sweet Scape, a vendor shop that helps small businesses sell their products from home. Before moving forward with the project, this chapter discusses several analyses, including the problem statements, objectives, scope, significance, and expected outcomes. The next chapter will explain the project methodology and planning in detail.

CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

In this chapter, the existing system has been analyzed. However, there are lack of studies and similar existing systems to the Sweet Scape model. Therefore, the methodology is based on current requirements. Project methodology refers to a set of methods and processes used to develop a project. It typically includes a series of steps and activities for each phase of the project's life cycle. To build the system effectively, the Agile methodology is used. Agile focuses on iterative development, collaboration, and flexibility, allowing the project to adapt to changing requirements and feedback from stakeholders. This section will further explain what Agile is and the phases involved in Agile methodology.

2.2 Project Methodology

Agile methodology elucidates the stages involved in implementing a project from initial planning to continuous improvement. The Agile process is divided into several iterative cycles known as sprints, which typically last 2-4 weeks. Each sprint involves specific phases which is Planning, Design, Development, Testing, Review, and Retrospective.



Figure 2.2.1.1: Agile Methodology

I. Planning

The planning phase involves defining the project's objectives, identifying stakeholders, and gathering requirements. The team creates user stories and prioritizes them in a product backlog. Sprint planning sessions are held to determine which user stories will be developed in the upcoming sprint.

II. Design

During the design phase, the team works on the architectural and detailed design of the system. This includes designing the database schema, user interfaces, and system components. Agile emphasizes just-in-time design, which means only the necessary components for the current sprint are designed in detail.

III. Development

In the development phase, the team implements the features planned for the current sprint. Developers write code, create database structures, and integrate various system components. Agile practices such as pair programming, test-driven development (TDD), and continuous integration are often employed to enhance quality and collaboration.

IV. Testing and Evaluation

Testing is a continuous activity in Agile, integrated into each sprint. The team conducts various tests, including unit tests, integration tests, and user acceptance tests (UAT),

to ensure that the implemented features meet the required standards and function correctly.

V. Deploy

Deployment is performed incrementally at the end of each sprint, ensuring that new features and improvements are continuously delivered to users. Automated deployment processes are used to push updates to staging or production environments, facilitating frequent and reliable releases.

VI. Review

At the end of each sprint, the team holds a sprint review meeting to demonstrate the completed work to stakeholders. Feedback is gathered and incorporated into the product backlog for future sprints. This ensures that the project stays aligned with stakeholder expectations .

2.3 Project Schedule and Milestone

Week /	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Task															
Project															
Initiation															
Requirement	AN		_												
Gathering															
XX		KA													
Database					1										
Design															
Development			_							_					
And				- ·											
		5						2 40							
Implementation															
UNIVERSI		ΕK	NIK	AL	M	AL/	112		ЛЕL	.AK	A				
Testing And															
Evaluation															
Demonstration															

Figure 2.3.1.1 below shows the Gantt chart of Sweet Scape.

Figure 2.3.1.1: Gantt Chart

2.4 Conclusion

The chosen methodology ensures efficiency and flexibility during the development process of Sweet Scape. Agile methodology ensures that the system will deliver a high-quality product that meets user needs in an ever-changing business environment.



CHAPTER 3: ANALYSIS

3.1 Introduction

In the analysis chapter, a detailed explanation of the database development planning will build on the previous chapter. This chapter includes gathering requirements, analyzing current processes, and developing the system architecture. Most developers consider database development while taking into account external factors such as cost, timeframe, development platform, programming language, and expected output. This chapter will also analyze the current system and the future system.

3.2 Problem Analysis

In this current era, there is no system and website for seller who sells products dessert from vendor. So basically customer needs to come to the shop and because of the 'viral', they need to queue for buy the products. This situation causes the customer to wait for a period time to get their food.

Sellers face significant challenges in managing food and dessert products from vendors due to manual recording processes and also lack of quality control for the product. The manual recording of product deliveries leads to inefficiencies and potential errors, as vendors also are unaware of their product sales performance or inventory status.

3.3 Requirement Analysis of The to Be System

The requirement analysis will outline the system requirements for each user and the functional requirements.

3.3.1 Functional Requirements

I. Admin

- Manage quality products.
- Manage process orders placed by customers.
- View sales report

II. Vendor

- Manage products.
- Manage inventory products.
- Notify product expired and stock levels are low.
- View sales report by each product.

III. Customer

- Allow customers to browse available products.
- Allow to place orders online
- Review their order history and track the status of their current orders.

	No	Non-functional	Description
	1	Scalability	Appropriate error massage to potify user if any input
	1	Scalability	Appropriate error message to notify user if any input
			data is invalid to process.
	2	Compatibility	The system shall support integration with third-party
	ALAY:		and and a normant actorized
~		MA MA	services, such as payment gateways
		I'F P	
		KA	
	3	Reliability	The calculation should be correct .
6			
	INN -		

3.3.2 Non-Functional Requirements

3.3.3 Other Requirements

The requirements for developing the database system are divided into two categories: software requirements and hardware requirements. Software requirements specify the tools and platforms used during development, while hardware requirements outline the physical equipment and resources needed to support the system.

3.3.3.1 Software Requirements

There have been listed the requirements and specifications of the software components which have been used in this system.

Software	Description
Draw.io	Draw.io, also known as diagrams.net, is a free, web-
ALAYSIA	based tool for creating various diagrams, including
	flowcharts, organizational charts, network diagrams,
	and UML diagrams.
Microsoft Word 365	Microsoft Word is a word processor developed by
	Microsoft for writing reports.
MySQL (My	MySQL is an open-source relational database
structured Query	management system that handles data queries and
Language)	updates, schema creation and modification, and data
	access control. A MELAKA
PHP	PHP is a general-purpose programming language
	initially designed for web development.
Visual Studio Code	Visual Studio Code is a source-code editor used for
	designing interfaces and implementing code.
XAMPP	XAMPP is a free, open-source, cross-platform web
🔀 XAMPP	server solution stack package used to run the MySQL
	database.
Microsoft Power BI Desktop	Power BI is a business analytics tool developed by
	Microsoft. It enables users to visualize and share
	insights from their data through interactive reports and
	dashboards. Power BI helps in data analysis,
	visualization, and reporting.

 Table 3.3.3.1.1: Software Requirements

3.3.3.2 Hardware Requirements

The list of hardware component that will be used in the system is asshown below in the Table 3.3.3.2.1

	Component	Specification
MALAYS	Model	Acer Swift SF314-54G
A	Processor	Intel(R) Core (TM) i5-8250 CPU @ 1.60
TEKNI	AKA	GHz 1.80 GHz
LIS	Hard Drive	HDD 932 GB
BAIND		SSD 477 GB
5 Molu		Di international
**	Memory (RAM)	12 GB
UNIVERSI	Screen Resolution	1920x 1080, 60 HZ

 Table 3.3.3.2.1: Hardware Requirement Detail

3.4 Conclusions

The purpose of this chapter includes extensive analysis and research for each criterion that is needed to design the system that is effective, and usable for the end user. When the analysis process is carried out thoroughly by creating each diagram, the system can be constructed systematically. The diagram gives insight into how the system will function and what needs to be done to meet user expectations.

CHAPTER 4: DESIGN

4.1 Introduction

During the design phase, the architecture of the system is defined. The main goal of this chapter is to create a design that fulfills the specified requirements. The requirements identified in the analysis phase are refined and expanded upon to encompass all functionalities of the application as envisioned.

4.2 System Architecture

A three-tier architecture for the Sweet Scape system divides functionality into three distinct layers: the presentation tier, application logic tier, and data tier. The presentation tier handles user interaction through interfaces tailored for vendors, admin, and customers, facilitating tasks such as product management, order processing, and reporting. The application logic tier manages business rules and processes, ensuring that user requests are processed efficiently and consistently. It includes modules for user management, product cataloging, order fulfillment, and real-time reporting using tools like Power BI. The data tier centrally stores and manages all system data in a relational database, supporting operations like storing product details, user profiles, order records, and inventory level.



Figure 4.2.1.1: 3-Tier Architecture

4.3 Database Design

Database design to the systematic process of structuring and organizing data within a database system to effectively store, manage, and retrieve information according to specific requirements. This includes defining the database schema, which encompasses tables, fields, relationships, and constraints, tailored to the chosen data model. The objective is to create a well-structured database that supports the application's functionality, ensures efficient data handling, and maintains data accuracy and consistency. Efficient database design is critical for achieving long-term data reliability, scalability, and ease of maintenance throughout the system's lifecycle.

4.3.1 Conceptual Design

4.3.1.1 Data flow diagram

a) Context Diagram



Figure 4.3.1.1: Context Diagram

Figure 4.3.1.1 above shows the context diagram which shows the overall look of the system and its user function to the system.

b) Data Flow Diagram Level 1



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Figure 4.3.1.2: Data Flow Diagram (DFD) Level 1

The figure above provides a detailed breakdown of the Context Diagram, highlighting the main functions of the system. It shows how the high-level process of the Context Diagram is divided into its subprocesses.
c) Data Flow Diagram (DFD) Level 2











Figure 4.3.1.8: Data Flow Diagram (DFD) Level 2 (Manage Order)



Logical design lays the foundation for the physical implementation of the database schema in a specific DBMS. It ensures that the database structure is well-organized, normalized, and capable of efficiently supporting the application's requirements while adhering to best practices in database design.



Figure 4.3.2.1 : Entity Relationship Diagram

Figure 4.3.2.1 shows the Entity Relationship Diagram (ERD) for Sweet Scape.

4.3.2.1 Business Rule

- 1. Vendor can have one or many products.
- 2. Product is owned by one vendor.
- 3. Customer can have one or many custs order and each order belong to one customer.
- 4. One product can have multiple category.
- 5. Admin can manage one or many order status tracking.
- 6. Vendor can manage one or many products.
- 7. Each customer order have a valid payment method.

4.3.2.2 Data Dictionary for Entity Relational Diagram

I. Customer Table

This table keep each customer detail information.

Table 4.3.2.2.1: Table Customer

Column	Туре	Constraints	Default
c_id	Int (11)	Not null	Auto increment
Username	Varchar (222)	Not null	_
Name	Varchar (222)	Not null	
Email	Varchar (222)	Not null	
Phone	Varchar (222)	Not null	
Password	Varchar (222)	Not null	

Address	Text	Not null	
Status	Int (11)	Not null	
Date	Date	Not null	Current_timestamp()

II. Admin Table

This table keeps admin detailed information.

Table 4.3.2.2.2: Table Admin

	Column	Туре	Constraints	Default
2	Adm_id	Int (11)	Not null	Auto increment
	60 60):): :	
J	Username	Varchar (222)	Not null	ELAKA
	Password	Varchar (222)	Not null	
	Email	Varchar (222)	Not null	
	Code	Varchar (222)	Not null	
	Date	Timestamp	Not null	Current_timestamp

III. Payments Table

This table keeps card_payments information.

Table 4.3.2.2.3: Table Payments

	Column	Туре	Constraints	Default
	Payment_id	Int (11)	Not null	Auto increment
	Amount	Decimal(10,2)	Not null	
KW	Payment_date	date	Not null	
1115	Payment_method	Varchar (50)	Not null	
	Card_number	Varchar (20)	Null	
5	Expiry_date	date	Null e	اوي
JN	CVV RSITI TEK	Varchar(5)	Null MEL	KA
	Co_id	Int(11)	Null	

IV. Product Table

This table keeps product detailed information.

Table 4.3.2.2.4: Ta	able Product
---------------------	--------------

Column	Туре	Constraints	Default
p_id	Int (11)	Not null	Auto increment
Name	Varchar (222)	Not null	
Description	Text	Not null	
Producedate	Date	Not null	
Expirydate	Date	Not null	اونىق
Img	Varchar (222)	Not null	
J <u>NIVERSITI T</u> Flavour	Test	Not null	LAKA
Date	Date	Not null	Current_timestamp()
V_id	Int (11)	Not null	Foreign key
Category_id	Int (11)	Not null	Foreign key

V. Product_sizes Table

Table keeps product_sizes detailed information.

Table 4.3.2.2.5: Table Product_sizes

	Column	Туре	Constraints	Default
	size_id	Int (11)	Not null	Auto increament
	Size	Varchar (50)	Not null	
TEKN	Price	Decimal (10,2)	Not null	
1410	Quantity	Int (11)	Not null	
5	Status	Varchar (100)	Not null	
J	Product_id	Int (11)	Not null	Foreign key

VI. Remark Table

This table keeps remark detailed information.

Table 4.3.2.2.6: Table Remark

Column	Туре	Constraints	Default
r_id	Int (11)	Not null	Auto increment
Frm_id	Int (11)	Not null	

Status	Varchar (255)	Not null	
Remark	Mediumtext	Not null	
Date	Date	Not null	Current_timestamp()

VII. Category Table

	This tab	le keeps pro_catego	ory detailed information.
	Table 4.3.	2.2.7: Table Categ	gory
Column	Туре	Constraints	Default
Category_id	Int (11)	Not null	Auto increment
Mo lundo	1 Gić	Bi in	i a la l
C_name	Varchar(222)	Not null	
Date	Date	Not null	Current_timestamp()

VIII. Vendor Table

This table keeps vendor detailed information.

Table 4.3.2.2.8: Table Vendor

Column	Туре	Constraints	Default
V_id	Int (11)	Not null	Auto increment
Name	Varchar (222)	Not null	
Icnum	Varchar (222)	Not null	
Phone	Varchar (222)	Not null	
Email	Varchar (222)	Not null	او نیونہ
Gender	Varchar(222)	Not null	LAKA
Address	Text	Not null	
Vaccine	Varchar (100)	Not null	
Brandname	Varchar (222)	Not null	
Image	Text	Not null	
Date	Datetime	Not null	Current_timestamp()
Username	Varchar (255)	Not null	
password	Varchar (255)	Not null	

IX. Cust_orders Table

This table keeps cust_orders detailed information.

Table 4.3.2.2.9: Table cust_orders

Column	Туре	Constraints	Default
co_id	Int (11)	Not null	Auto increment
Name	Varchar (222)	Not null	
Quantity	Int (11)	Not null	
Price	Decimal (10,2)	Not null	VI -
Size	Varchar (30)	Not null	اونىقە
Status	Varchar (222)	Not null	
Date	Datetime	Not null	Current_timestamp()
Order_status	enum('pending', 'completed')	Null	Pending
Order_prepare	Varchar (222)	Not null	
Delivery_option	Varchar (10)	Not null	
Payment_method	Varchar (30)	Not null	
Order_time	Datetime	Not null	Current_timestamp()
Grandtotal	Decimal (10,2)	Null	

orderID	Varchar (100)	Not null	
C_id	Int (11)	Not null	Foreign key

X. Product_category Table

This table keeps product_category detailed information

Table 4.3.2.2.10: Table Product_category

Column	Туре	Constraints	Default
V_id	Int (11)	Null	Foreign Key
Category_id	Int (11)	Null	Foreign Key
	کنک ا	م سنت تنع	منوا

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4.3.2.3 Normalization

The conceptual design uses normalization, as displayed. Each table includes attributes, primary keys, and foreign keys. Figures 4.3.2.3.1 to 4.3.2.3.8 illustrate the third normal form (3NF) of the Sweet Scape system.



Figure 4.3.2.3.2: 3NF of Table Product_sizes

Figure 4.3.2.3 illustrates that table product_sizes is in 3NF.



Figure 4.3.2.3.3: 3NF of Customer Table



Figure 4.3.2.3.5: 3NF of Admin Table

Figure 4.3.2.5 illustrates that the Admin table is in 3NF.



Figure 4.3.2.3.6 : 3NF of Product Table

Figure 4.3.2.6 illustrates that the product table is in 3NF



Figure 4.3.2.3.7: 3NF of Cust_orders Table



Figure 4.3.2.3.8: 3NF of Remark Table

Figure 4.3.2.8 illustrates that the remark table is in 3NF.

4.3.2.4 Query Design

This various query designs can generate diverse types of outputs, each tailored to specific requirements, rationale, and objectives. Table 4.3.2.4.1 presents several examples of query design.

	Type of	Query	Explanation
	Query		
	At Mr.	1/10	
N	Simple	UPDATE product SET flavour =	Update table
Ш	Query	'Chocolate'	product and set
-			flavour =
	SUL EVE		chocolate.
	Join Table	SELECT customer.*,	To retrieve the
5	Query	cust_orders.* FROM customer	customer and
	00 01	INNER JOIN cust_orders ON	customer's
J	NIVERSIT	customer.c_id=cust_orders.c_id	order to
			confirm their
			order.
-	Aggregate	SELECT orderID,	To retrieve
	Query and	GROUP_CONCAT(name SEPARATOR ' ,	customer's
	Join Query	') AS names, SUM(quantity) AS	order data to
		total_quantity,	show their
		GROUP_CONCAT(size SEPARATOR ' ,	orders.
		') AS sizes, SUM(price) AS	
		total_price, delivery_option,	
		payment_method, status,	
		MIN(date) AS min_date	
		FROM cust_orders	
		WHERE c_id =	
		'{\$_SESSION['c_id']}'	

Table 4.3.2.4.1:	Query	Design	Example
------------------	-------	--------	---------

	GROUP BY orderID
	ORDER BY min_date
ASC";	

4.3.2.5 Security Mechanism

Security mechanism is used for the system to validate the expiry card. For example, the customer that choose to payment by card need to fill up the card details.



Figure 4.3.2.8: Validate Expiry Card Date When Payment By Card

4.4 Graphical User Interface (GUI) Design

A graphical user interface (GUI) design outlines how users will interact with the system and the types of inputs the system accepts and produces. It encompasses screen displays that guide navigation through the system and capture data. GUI design consists of three components: navigation design, input design, and output design.

4.4.1 Input Design

The input design emphasizes how users input data into the system, whether structured or unstructured. Screens and forms are specifically created to capture and store information related to actions performed within the system. Figure illustrates the input design, can be referred to in Appendix A.

4.4.2 Output Design

The output design focuses on displaying retrieved information from the system on the screen or form. Details of the output design are shown in Appendix A.

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4.5 Conclusion

This chapter concludes with insights into designing the Sweet Scape in a systematic manner, ensuring compliance with both functional and non-functional requirements identified in the analysis phase. Additionally, the design phase aims to address the problem defined in the requirement document, transitioning from the problem domain to the solution domain.

CHAPTER 5: IMPLEMENTATION

5.1 Introduction

This chapter covers the database implementation process, focusing on installing and configuring MySQL on the Windows 11 platform. It details the execution of Data Definition Language (DDL) and Data Manipulation Language (DML) SQL statements within the database implementation phase. The status of implementation is documented for each module.

5.2 System Development Environment Setup

In Sweet Scape, setting up the software development environment is crucial before starting web application development. This setup generally involves four main components: a Web Server (such as Apache), a Database Server (like MySQL), a Web Programming Language (such as PHP), and a Database Management Tool (like phpMyAdmin). These components can be conveniently installed together using XAMPP.

Step 1: Open your web browser and go to https://www.apachefriends.org/download.html to download XAMPP for Windows.

		Downlo	ad							
XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl, Just download and start the installer. It's that easy.										
			for Windo	ows 8.0.3	0, 8.1.25 & 8	3.2.12				
		Version		Checksum		Size				
		8.0.30 / PHP 8.0.30	What's Included?	md5 sha1	Download (64 bit)	144 Mb				
		8 1 25 / PHP 8 1 25	What's	md5 sha1	Download (64 bit)	148 Mb				
			Included? What's	well about						
		8.2.12 / PHP 8.2.12	Included?	mas snar	Download (64 bit)	149 MD				
		Requirements Mor	e Downloads »							
		Windows XP or 2003 are platforms here.	not supported. You c	an download a com	patible version of XAMPP	for these				
	Figure	5.2.1.1:	Down	load 2	XAMP	P for W	indows			
	U									
e0 e0		••		44						
Step 2: Cl	ick the in	staller ex	e file a	and cl	ick run.					
	Open File - S	ecurity Warning	1				×			
	Do you wa	nt to run this f	file?							
		Name:ad	s\xampp-	windows-	x64-8.2.4-0-	VS16-installer	.exe			
		ublisher: Ope	n Source	Develop	er, Beltran F	taDB, PHP, and Perl. Just 1.25 & 8.2.12 Size				
		Type: App	lication							
		George Chil								
		From: C:\U	sers\Anisy	alDownic	baus∖xampp	-windows-x62	ł-ö			
					Run	Cancel				



Figure 5.2.1.2: Run the Installer

Step 3: After the installer finishes running, click Next to configure the XAMPPcomponent.

🧃 Setup				- 0	X	
	8	Setup - XAMPP Welcome to the XA	MPP Setup Wizard	ł.		
Figure 5.2.1.	3: Click N	ext to Setu	< Back N	ext >	Cancel	
Step 4: 0	Choose a fo	older to inst	all XAMF	PP, the	n click	Next.
UNIVERSITI TE	Setup	LMAL			LAK	A R R
	Please, choose a f	older to install XAMP	P			
	Select a folder	:\xampp		12		
	nstallBuilder					
			< Ba	k N	lext >	Cancel

Figure 5.2.1.4 : Choose Installation Folder

Step 5: Then after the Setup is finish, the software will be ready to install. Click Next to perform installation.

	🗃 Setup		- 🗆 X
	Ready to Install		8
	Setup is now ready to begin installing XAMP	P on your computer.	
Fister MALAYS	Figure 5.2.1.5 : Fi	< Back N	ext> Cancel or XAMPP
JNIVERSI	TEKNIKAL MA Welcome to XA		E
	KAMPP is an easy to inst containing MySQL, PHP a	all Apache o Ind Perl	distribution
	Inst Unpaci	alling king files	
Install	Builder	< Back	Next > Cance

Figure 5.2.1.6 : Installing XAMPP



Step 6: After installation is finished, Click Finish.

Step 7: After closing the setup page, it will appear XAMPP Control Panel.

😢 XAMPF	Control Pane	el v3.3.0 [Co	mpiled: Apr 6th 20	21]			-		×
XAMPP Control Panel v3.3.0								Je Config	
Modules Service	Module	PID(s)	Port(s)	Actions				💿 Ne	etstat
	Apache	22348 8756	80, 443	Stop	Admin	Config	Logs	2 S	Shell
	MySQL	10540	3306	Stop	Admin	Config	Logs	Exp	plorer
	FileZilla			Start	Admin	Config	Logs	🔛 Ser	rvices
	Mercury			Start	Admin	Config	Logs	0 H	lelp
	Tomcat			Start	Admin	Config	Logs		Quit
12:58:10 12:58:10 12:58:10 12:58:10 12:58:11 12:58:11 12:58:12 12:58:12	PM [main] PM [main] PM [main] PM [min] PM [mysql] PM [mysql] PM [Apache PM [Apache	All prereq Initializing Starting C Control P Attemptir Status ch Attemptir Status ch Status ch	uisites found J Modules Check-Timer anel Ready Ig to start MySQI Iange detected: n Ig to start Apach Iange detected: n	L app unning e app unning					

Figure 5.2.1.8 : XAMPP Control Panel



Step 9: Click Start on Apache and MySQL to start the server.

In Sweet Scape database implementation, the database is used to test queries, including simple queries, stored functions, and triggers.

5.3.1 Data Definition Language (DDL)

Data Definition Language (DDL) encompasses SQL commands utilized to create and manage tables within a relational database. These statements facilitate the creation, alteration, and removal of database objects such as table, index, and trigger for Sweet Scape.

5.3.1.1 Create Table Commands

Figure 5.3.1.1 to Figure 5.3.1.7 show the query of each table commands.

CREATE TABLE `cust orders` (`co id` int(11) NOT NULL, `c_id` int(11) NOT NULL, `name` varchar(222) NOT NULL, `quantity` int(11) NOT NULL, `price` decimal(10,2) NOT NULL, `size` varchar(30) NOT NULL, `status` varchar(222) DEFAULT NULL, `date` datetime NOT NULL DEFAULT current_timestamp(), `order status` enum('pending','completed') DEFAULT 'pending', `order_prepare` varchar(222) NOT NULL, `dish_id` int(11) DEFAULT NULL, `delivery_option` varchar(10) NOT NULL, `order_time` datetime NOT NULL DEFAULT current_timestamp(), `grandtotal` decimal(10,2) DEFAULT NULL, `orderID` varchar(100) NOT NULL) ENGINE=InnoDB DEFAULT CHARSET=latin1;

Figure 5.3.1.1 : Create Table Cust_orders

CREATE TABLE `admin` (

`adm_id` int(11) NOT NULL,

`username` varchar(222) NOT NULL,

`password` varchar(222) NOT NULL,

`email` varchar(222) NOT NULL,

`date` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

Figure 5.3.1.2: Create Table Admin

CREATE TABLE `category` (

`category_id` int(11) NOT NULL,

`c_name` varchar(222) NOT NULL,

`date` date NOT NULL DEFAULT current_timestamp()

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

Figure 5.3.1.3: Create Table Category



Figure 5.3.1.4: Create Table Customer

CREATE TABLE `payment` (`payment_id` int(11) NOT NULL, `amount` decimal(10,2) NOT NULL, `payment_date` date NOT NULL, `payment_method` varchar(50) NOT NULL, `card_number` varchar(20) DEFAULT NULL, `expiry_date` date DEFAULT NULL, `evv` varchar(5) DEFAULT NULL, `co_id` int(11) DEFAULT NULL) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Figure 5.3.1.5: Create Table Payment

CREATE TABLE `product` (

`p_id` int(11) NOT NULL,

`v_id` int(11) NOT NULL,

`name` varchar(222) NOT NULL,

`description` text NOT NULL,

`producedate` date NOT NULL,

`expirydate` date NOT NULL,

`img` varchar(222) NOT NULL,

`flavour` text NOT NULL,

`date` date NOT NULL DEFAULT current_timestamp(),

`category_id` int(11) DEFAULT NULL,

`status` varchar(100) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

Figure 5.3.1.6: Create Table Product

CREATE TABLE `product_category` (

`v_id` int(11) DEFAULT NULL,

`category_id` int(11) DEFAULT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Figure 5.3.1.7: Create Table Product_Category

5.3.1.2 Create Constraints

Figure 5.3.1.8 until Figure 5.3.1.11 show constraints for this system.

ALTER TABLE `cust_orders`

ADD CONSTRAINT `c_id` FOREIGN KEY (`c_id`) REFERENCES `customer` (`c_id`),

ADD CONSTRAINT `fk_c_id` FOREIGN KEY (`c_id`) REFERENCES customer` (`c_id`) ON DELETE CASCADE,

ADD CONSTRAINT `fk_cid` FOREIGN KEY (`c_id`) REFERENCES `customer` (`c_id`) ON DELETE CASCADE;

Figure 5.3.1.8 : Constraints for Table Cust_orders

ALTER TABLE `product`

ADD CONSTRAINT `fk_category` FOREIGN KEY (`category_id`)
 REFERENCES `category` (`category_id`),
 ADD CONSTRAINT `fk_vendor` FOREIGN KEY (`v_id`) REFERENCES
 `vendor` (`v_id`) ON DELETE CASCADE;



ALTER TABLE `product_sizes`

ADD CONSTRAINT `fk_product` FOREIGN KEY (`product_id`) REFERENCES `product` (`p_id`) ON DELETE CASCADE; COMMIT;



ALTER TABLE `product` ADD PRIMARY KEY (`p_id`), ADD KEY `fk_category` (`category_id`), ADD KEY `fk_vendor` (`v_id`);

Figure 5.3.1.11: Index for Table Product

5.3.2 Data Manipulation Language

Figure 5.3.2.1 until Figure 5.3.2.3 shows some examples of datamanipulation language for this system.

INSERT INTO `admin` (`adm_id`, `username`, `password`, `email`, `date`) VALUES

(1, 'ccbd', '0d89ec971a7bcfe26d68c177a9d53334', 'admin@gmail.com', '2023-02-22 07:18:13'),

(2, 'staff', '0d89ec971a7bcfe26d68c177a9d53334', 'staff@gmail.com', '2024-06-09 07:29:30');

Figure 5.3.2.1: Insert Statement - Insert Data into Table Admin

DELETE FROM admin

WHERE adm_id = '1';

Figure 5.3.2.2: Delete Statement - Delete admin from Admin Table

```
UPDATE product SET
name = 'Kek Batik' WHERE
p_id = '17';
```



5.3.3 Power BI Implementation

5.3.3.1 Connection to Database

To integrate the sweetscape MySQL database with Power BI, the following steps were performed :

- I. Power BI Desktop was opened to establish the connection
- II. In Power BI Desktop, the Get Data was used to connect to the MySQL database folder

III. Put your server name and database name.

- IV. The Data Connectivity mode was set to either import or DirectQuery
- V. The relevant tables were selected and loaded into Power BI
- VI. The relationships between the tables were visualized using schema map in the Model view Power BI.



Figure 5.3.3.1: Schema Map Power BI

5.3.3.2 Synthetic Data Generation

To handle the large data requirements of this project, I used GPT-4 to generate synthetic data. Creating over 10,000 data entries manually was too challenging, so GPT-4 helped by producing a large volume of realistic and diverse data. This synthetic data closely mimics real-world scenarios, making the analysis and testing processes more effective. By using GPT-4, I was able to simulate various conditions and test the system's performance with a substantial dataset. This was crucial during the implementation phase for thorough testing of the Power BI dashboards and measures, ensuring they provide accurate and valuable insights.

5.3.3.3 Power BI Dashboard and Measures

The Power BI dashboard features four key sections: Sales, Vendor, Product, and Customer. Each dashboard is tailored to address specific business needs by offering detailed insights. The Sales dashboard monitors overall sales performance with essential metrics and visualizations. The Vendor dashboard evaluates vendor performance and relationships. The Product dashboard tracks product metrics, including sales and inventory levels. The Customer dashboard provides insights into customer behavior and preferences. Measures used include basic calculations like total sales, and more complex metrics such as the Sales Rate, which helps analyze the efficiency of sales performance over time.



I. Dashboard in Power BI

Figure 5.3.3.1: Dashboard Sales Power BI



Figure 5.3.3.3.2: Dashboard Vendor Power BI



Figure 5.3.3.3: Dashboard Product Power BI


Figure 5.3.3.3.4: Dashboard Customer Power BI

II. Measures

1. Simple measures

AverageSellingPrice =

AVERAGEX('sweetscape cust_orders', 'sweetscape cust_orders'[price])

2. Complex measures

SalesRate=

),

DIVIDE([DistinctGrandTotalPerPaymentID_ExcludingRejected],

SUMX(SUMMARIZE(FILTER('sweetscape cust_orders',

'sweetscape cust_orders'[status] <> "rejected"

'sweetscape cust_orders'[orderID],

"TotalQuantity", MAX('sweetscape cust_orders'[quantity])), [TotalQuantity]))

5.4 Conclusions

Essentially, this chapter describes how to set up the software development environment, including the installation of XAMPP, PHP, and MySQL on a Windows platform. Additionally, database implementation was carried out to control the system operations. The system's foundation includes business logic with instructions for creating database tables using Data Definition Language (DDL) and managing data with Data Manipulation Language (DML). Furthermore, the chapter covers the setup and integration of Power BI to visualize and analyze the data. It details the process of connecting Power BI to the MySQL database, creating interactive dashboards, and implementing measures to derive meaningful insights from the data.

CHAPTER 6: TESTING

6.1 Introduction

Testing involves evaluating a software application's functionality to ensure it meets specified requirements and identifying any defects, aiming to ensure the system is error-free. T

his chapter concentrates on verifying the system through testing using the selected testing method. The primary objectives for testing the system are:

- To demonstrate that system satisfies its user requirements.
- To uncover any bugs or faults within the system using various testing strategies.

6.2 Test Plan JNIVERSITI TEKNIKAL MALAYSI

A test plan is a detailed technical document that outlines the testing strategy, scope, and the required resources, such as personnel, software, and hardware. It also includes the testing schedule and deliverables. The document provides an in-depth understanding of the system's workflow and functionality, describing how each component will be tested to ensure the system functions as intended and to identify any potential limitations.

6.2.1 Test Organization

In the Sweet Scape Vendor Dessert Management System , the test organization includes three user roles: Customer, Vendor, and Staff. Each role will be involved in testing both functional and non-functional requirements based on their responsibilities. Table 6.2.1.1 outlines the testing responsibilities assigned to each user role.

Test ID	User	Responsibilities
T1	Vendor	• Testing the system, follow the test script.
		• Testing the product module.
T2	Staff	• Testing the system, follow the test script.
MALAY	SIA	
ST.	ELAKA	• Testing the customer module.
		• Testing the product module.
ما ملا	کل ملیہ	• Testing the vendor module.
NIVERS		• Testing the order module.
		• Testing the report module.
		• Testing the backup & recovery
	9	
13	Customer	• Testing the system, follow the test script.
		• Testing order module.

Table 6.2.1.1 Testing Roles and Responsibilities

The test environment includes all the software, hardware, operating systems, tools, and network settings needed for testing. Tables 6.2.2.1 and 6.2.2.2 list the hardware and software required for the system test environment.

Table 6.2.2.1 Environment Hardware List

Environment specification	Description
Laptop	Lenovo IdeaPad 5 14ALC05
Processor	AMD Ryzen 5 5500U with Radeon
	Graphics 2.10 GHz
Random Access Memory (RAM)	8.00 GB

Table 6.2.2.2 Environment Software List

Environment	Description
Database	MYSQL
JNIVERSITI TEKNIKAL MA	Manages data in database tables on a
	server.
Web Server	Xampp
	Provides a local web server for
	deploying and testing applications.
Operating System	Windows 11
	Manages computer hardware and
	software resources and serves as the
	platform for running applications.
Web Browser	Google Chrome
	Executes PHP source code and tests the
	system's interface functionality.
Visual Studio Code	Utilized for writing PHP code.

6.3 Test Strategy

The test strategy outlines how testing will be carried out, including the methods, techniques, and specific modules to be tested. It provides a plan for ensuring that the software meets its requirements and functions correctly.

White box testing is a technique that involves examining the internal structure and logic of software. It includes several levels of testing to ensure the software operates reliably and meets all necessary criteria. Unit testing focuses on verifying that individual components function correctly. Integration testing assesses how well different components work together. System testing evaluates the entire software system to ensure it meets specified requirements. Finally, user acceptance testing (UAT) involves end users to confirm that the software meets their needs and is ready for deployment.

Table 6.3.1 Type of Test Design

	White Box
Type of	Unit testing
Testing	Test individual components or unites the software to ensure each
	one functions correctly. This ensures that each part of the code is
	functioning correctly on its own.
	Integration testing
	Verifies how different components interact and function together. System Testing
	Assesses the complete end-to-end scenarios of the software.
	User Acceptance Testing (UAT)
	Performed by end users to ensure the system meets their needs and
	is ready for deployment.

Test Design	Code Coverage			
Techniques	Measures the extent to which the code has been executed during			
	testing, ensuring that all parts of the code are tested			
	Path Testing			
	Involves testing all possible paths through the code to ensure that			
	each path works correctly.			
	Branch Testing			
	Focuses on testing all the branches in the code to verify that each			
	decision point functions as expected.			
	Statement Testing			
MALAYS	Ensures that each line of code is executed at least once during			
	testing.			
S S A A A A A A A A A A A A A A A A A A				

6.3.1 Classes of Tests

Below have several types of test class description that are being implemented on Sweet Scape Vendor Dessert Management System:

I. Input Validation Testing

Input validation testing ensures that the system correctly checks and handles user input. This type of testing verifies that all required fields are filled out and that the input meets the expected format and constraints. For example, it checks whether the username and name fields are not empty and whether the email address follows the correct format. If any input is missing or incorrect, the system should display appropriate error messages and prevent the registration process from proceeding. This testing helps ensure that users provide valid data and prevents errors or security issues from invalid input.

II. Control Flow Testing

Control flow testing ensures that the system processes data and follows its internal logic correctly. This type of testing focuses on verifying that the system correctly handles different paths in the code based on the input provided. For instance, it tests whether the system proceeds with registration when all inputs are valid and whether it displays error messages and halts the registration if any inputs are invalid. Control flow testing helps ensure that the program performs the correct actions and handles different scenarios as expected, including error handling and successful outcomes.

6.4 Test Design

Test design involves creating test cases based on the internal logic and code of the software. This process includes developing test cases that focus on different parts of the code, using test data to check various inputs and scenarios, and analyzing test results to see if the code behaves as expected. The goal is to ensure that all parts of the code are tested and that the software works correctly according to its design.

6.4.1 Test Description

The test case outlines the identification details, type of testing, testing strategy, and test class, along with preconditions and test requirements. It includes a step-by-step procedure for each test case and specifies the expected output results. Each module's test case is designed and documented to ensure comprehensive validation of the functionality, focusing on validating required fields, input formats, error handling, and successful output result.

Table 6.4.1.1: Test Description of Registration

(Customer)

Test ID	T001 – Registe	er – Customer – ATOTA M	ELA	КА
Testing	White box test	ing		
Туре				
Test	Control Flow	Testing, Input Validation		
Strategy				
Test	User Registrat	ion		
Class				
Test	Test	Test / step procedure		Expected
Case ID	requirements			output
TC1_1	Validate that	• Begin with	the	- The system
	all required	if(isset(\$_POST['submi	t']))	should not
	fields are	check to ensure the form	n is	proceed

		filled before		submitted.	with
		allowing	•	Ensure that form fields	registration
		registration.		(username, email,	if any
				password) are captured	required
				correctly via \$_POST.	fields are
			٠	Check that each required	empty,
				field (username, name,	displaying
				email) is not empty.	appropriate
			•	Validate the format of the	error
				email using a regular	messages
	MALA	ISIA MA		expression.	If all fields
11.		n' P	•	Ensure the address meets	are valid and
EKA		K A		security requirements	unique, the
L L			•	If any field is empty or	user should
1.	SZ			invalid, ensure an	be
	N/N			appropriate error message	successfully
6	61.1			is displayed and the	registered,
	با مارد	سے میں		registration does not	and a
				proceed.	confirmation
	NIVERS	DIIIIEKN	IKAI	Query the database to	message or
				ensure the username and	email should
				email are not already	be sent.
				registered.	
			•	Validate that a new user	
				record is created if all	
				validations pass.	

Test ID	T002 – Login –	Customer			
Testing	White box testing				
Туре					
Test	Control Flow Testing and Session Management				
Strategy					
Test	User Authentica	tion			
Class					
Test	Test	Test / step procedure	Expected		
Case ID	requirements		output		
TC2_1	Validate that	1. Ensure the form submission	- The system		
2	the system	is detected by checking	should allow		
W JINO	properly	if(isset(\$_POST['submit'])).	login with		
	handles user	2. Capture form fields	valid		
يا ملاك	login, including	(username, password) via	credentials,		
* *	session	\$_POST.	create a		
NIVERS	creation.	3. Verify that the username	session, and		
		and password fields are not	redirect the		
		empty.	user to the		
		4. Ensure input data is	dashboard.		
		sanitized to prevent SQL	- If invalid		
		injection.	credentials		
		5. Query the database to verify	are		
		the existence of the	provided,		
		username and ensure the	the system		
		password matches the	should		
		stored hash.	display an		
		6. Use functions like	appropriate		
		password_verify() to	error		
		compare the entered	message and		

Table 6.4.1.2 Test Description of Login (Customer)

	password with the stored	prevent
	hashed password.	login.
	7. If authentication is	
	successful, initiate a session	
	using session_start().	
	8. Set session variables like	
	\$_SESSION['user_id'] to	
	track the logged-in user.	
	9. Redirect the user to the	
	dashboard or homepage	
MALAYSIA	after successful login.	
Phi In	10. Display an appropriate error	
KA A	message if the username or	
	password is incorrect.	
Toy		

ونيومرسيتي تيكنيكل مليسيا ملاك

Table 6.4.1.3: Test Description of Reset Password

(Customer)

Test ID	T003 – Reset Pa	ssword – Customer			
Testing	White box testin	White box testing			
Туре					
Test	Input Validation	and Email Functionality			
Strategy					
Test	User Authentica	tion and Security			
Class	SIA				
Test	Test	Test / step procedure	Expected		
Case ID	requirements		output		
TC3_1	Validate that	1. Ensure the form submission	- The system		
V JINO	the system	is detected by checking	should send		
	handles the	if(isset(\$_POST['submit'])).	a password		
با ملالا	password reset	2. Capture the email field via	reset link to		
•*	process	\$_POST.	the provided		
NIVERS	correctly,	3. Verify that the email field is	email if it		
	including email	not empty.	exists in the		
	validation and	4. Validate the email format	database.		
	sending the	using a regular expression.	- If the		
	reset link.	5. Query the database to check	email is		
		if the provided email exists	invalid or		
		in the system.	not		
		6. If the email exists, generate	registered,		
		a unique token for the	the system		
		password reset link.	should		
		7. Store the token in the	display an		
		database associated with the	appropriate		
		user's email.	error		
		8. Send an email containing	message.		

	the password reset link with	
	the token to the user's email	
	address.	
	9. Ensure the system provides	
	appropriate feedback, such	
	as a success message	
	indicating that a reset link	
	has been sent or an error	
	message if the email is not	
	registered.	



Table 6.4.1.4: Test Description of Order Product

(Customer)

Testing White box testing Type Image: Constraint of the second s	
Testing white box testing Type	
Type	
Test Control Flow Testing, Input Validation, Database Interaction	
Strategy	
Test Order Management	
Class	
Test Test requirements Test / step procedure Expected	
Case ID output	
TC4 1 Validate det de	
1C4_1 Vandate that the 1. Check that the user The system	
system correctly is logged in by should	
handles the ordering verifying the correctly add	
process, including existence of items to the	
item selection, price \$_SESSION['c_id']. cart, calculate	
calculation, and cart 2. Retrieve the total, and	
management. Category_id, display an	
product_id from the accurate order	
URL and validate summary.	
its existence in the	
category table.	
3. Prepare and execute	
a SQL query to	
fetch products	
based on	
category_id,	
product_id ensuring	
they are not expired	
and have a valid	
production date.	

Table 6.4.1.5: Test Description of Choose DeliveryMethod (Customer)

Test ID	T005 – Delivery Method – Customer							
Testing	White box testin	White how tooting						
Testing	white box testing							
Туре								
Test	Control Flow Te	esting, Input Validation, Database Ir	iteraction					
Strategy								
Test	Order Managem	ent						
Class	SIANA							
Test	Test	Test / step procedure	Expected					
Case ID	requirements		output					
TC5_1	Validate that	1. Ensure the form submission	Store the					
V JINO	the system	is detected and the delivery	delivery					
	allows	option is captured via	option and					
با ملاك	customers to	\$_POST['delivery_option'].	cart items in					
••	choose between	2. Calculate the total price by	the session					
NIVERS	pickup and	iterating over the cart items	and redirect					
	delivery	from \$_POST['cart_items'].	to the					
	options.	3. Insert payment details into	checkout.php					
		the payment table and	page.					
		retrieve the generated						
		payment_id.						
		4. For each item in the cart,						
		insert the order details into						
		the cust_orders table,						
		ensuring the correct v_id is						
		fetched based on p_id.						
		5. Update the product_sizes						
		table to reduce the quantity						
		based on the ordered items.						

Table 6.4.1.6: Test Description of Choose PaymentMethod (Customer)

Test ID	T006 – Choose Payment Method – Customer					
TestingType	White box testing					
Test Strategy	Control Flow Tes	ting, D	atabase Interaction			
Test Class	Payment Processi	ng				
Test Case ID	Test	Test / s	step procedure	Expected output		
	requirements					
TC6_1	Validate that the	1.	Ensure \$_SESSION['c_id'] and	The system		
A.R. III	system correctly		<pre>\$_SESSION['orderID'] are set;</pre>	should correctly		
1 A	processes a cash		redirect to login.php or	calculate the		
TEI	payment and		your_orders.php if not.	grand total,		
E	updates the order	2.	Retrieve orderID from the	update the		
SAIL	status.		session and fetch all items	payment amount		
INN N			associated with this order from	in the database,		
ا ملاك	کے ملیسا	N	cust_orders.	and redirect the		
	• • • •	3.**	Calculate the total price,	user after		
UNIVER	SITI TEKN	IKAI	including the delivery charge,	confirming the		
			and update the payment table	cash payment.		
			with the grand total using			
			payment_id.			
		4.	Display the items, their prices,			
			quantities, and the grand total to	,		
			the user.			
		5.	Upon user confirmation			
			(POST['confirm_order']),			
			redirect to your_orders.php.			
TC6_2	Validate that the	1.	Ensure \$_SESSION['c_id'] and	The system		
	system correctly		<pre>\$_SESSION['orderID'] are set;</pre>	should validate		
	processes a card		redirect to login.php or	card details,		
	payment,		your_orders.php if not.	update the		
	including	2.	Retrieve orderID from the	payment amount,		

validation of		session and fetch all items	and redirect the
card details and		associated with this order from	user after
updating the		cust_orders.	successful
payment status.	3.	Calculate the total price,	payment
		including the delivery charge,	processing.
		and prepare to update the	
		payment table with the grand	
		total.	
	4.	Validate card details on form	
		submission	
MALAYSIA		(POST['cardSubmit']),	
AND		including card number, expiry	
AX		date, and CVV.	
	5.	If the card is valid and not	
LISZ		expired, update the payment	
JINN .		details in the payment table and	
661 [redirect to your_orders.php.	
ڪل مليسيا مارك	6.	If the card details are invalid or	9
		expired, display an error	
UNIVERSITI TEKN	IKA	message and prevent the	KA
		update.	

Table 6.4.1.7: Test Description of Track Order Status (Customer)

Test ID	T007 – Track Order Status – Customer						
TestingType	White box testing						
Test Strategy	Control Flow Testing, Database Interaction						
Test Class	Order Management						
Test Case ID	Test requirements Test / step procedure Expectedoutput						
TC7_1	Validate that the	1.	Ensure	The system			
MALAYSIA	system correctly		\$_SESSION['c_id']	should correctly			
R. M	handles the tracking		is set; redirect to	fetch and display			
5	of customer orders		login.php if not.	orders based on			
	and supports order	2.	If an order	the selected date,			
	cancellation.		cancellation request	allow order			
S day	(\$_GET['order_del'])cancellation						
NNN -			is made, fetch	when			
John Lun	کندکا ما		payment_id from	appropriate, and			
• •		4	cust_orders using	provide a receipt			
NIVERSIT	TEKNIKAL N		orderID.	link for			
		3.	If the payment_id is	completed			
			found, delete the	orders.			
			order from				
			cust_orders and the				
			corresponding				
			payment record from	L			
			payment.				
		4.	Handle date filtering				
			with filter_date by				
			setting it to the				
			selected date or the				
			current date by				
			default.				
		5.	Fetch consolidated				



Table 6.4.1.8: Test Description of View and DownloadReceipt (Customer)

Test ID	T008 – Vi	T008 – View and Download Receipt – Customer					
Testing	White box	testing					
Туре							
Test	Control F	low Testing	ng, File Handling, Database Interaction				
Strategy							
Test	Order Ma	nagement					
Class							
Test Case	Test requ	irements	Test / step procedure Expected				
ID	IL AN		output				
TC8_1	Validate	that the	e 1. Ensure The system				
	system	correctly	y \$_SESSION['c_id'] should				
52	retrieves	and	d is set; redirect to accurately				
31/NO	displays t	he receipt	t login.php if not. retrieve and				
	details for	viewing.	2. Capture orderID display the				
سب ملال	ال مد		from the URL order details				
			(\$_GET['orderID']) and				
NIVERSIII	IEKN		3. Query the customer				
			cust_orders and information,				
			payment tables to and allow				
			fetch order details, the user to				
			payment method, download				
			and amount for the the receipt				
			given orderID and as a PDF.				
			c_id.				
			4. Fetch customer				
			details from the				
			customer table				
			based on c_id.				
			5. Display the				
			customer details,				

				including name,	
				phone number,	
				address, payment	
				method, and	
				delivery option.	
			6.	Display the order	
				details in a table	
				format, including	
				item name,	
				quantity, size, and	
	MALAYSIA			price.	
	N. AND		7.	Calculate and display	
ΞKN		KA		the total quantity and	
F	Ē			total price in the order	
Y.	S.			summary.	
Ī	TC8_2	Validate that the	1.	Ensure	The system
4		system correctly		\$_SESSION['c_id']	should
-	یسیا مالال	generates a PDF		is set; redirect to	generate a
		receipt with all		login.php if not.	correct PDF
	NIVERSIII	relevant order	2.	Capture orderID	receipt for
		details.		from the URL	download.
				(\$_GET['orderID'])	
			3.	Query the	
				cust_orders and	
				payment tables to	
				fetch order details,	
				payment method,	
				and amount for the	
				given orderID and	
				c_id.	
			4.	Fetch customer	
				details from the	
				customer table	



Table 6.4.1.9: Test Description of Update Profile (Customer)

Test ID	T009 – Update Profile – Customer								
Testing	White box testing	5							
Туре									
Test	Control Flow Testing, Input Validation, Database Interaction								
Strategy									
Test	User Profile Man	agement							
Class	SIA								
Test	Test	Test / step procedure	Expected						
Case ID	requirements		output						
TC9_1	Validate that the	1. Ensure \$_SESSION['c_id']	The system						
E E	system correctly	is set; redirect to login.php	should						
STIT	updates the	if not.	correctly						
NNN -	user's profile	2. Retrieve the user's existing	validate and						
با ملا	details, ensuring	profile details from the	update the						
**	all fields are	customer table using c_id.	user's						
NIVERS	properly	3. If the form is submitted,	profile						
	validated and	capture and sanitize the	information,						
	stored.	input fields (username,	including						
		name, email, phone,	handling						
		address, and password)	address						
		using	validation						
		mysqli_real_escape_string.	and optional						
		4. Validate the address to	password						
		ensure it contains "Ayer	updates. It						
		Keroh"; if not, display an	should						
		error message.	provide						
		5. If the password field is not	appropriate						
		empty, hash the new	feedback						
		password using md5.	messages						
		6. Update the user's details in	for success						

	t	the custo	mer table.		or failure.
	7. I	If the up	date is suc	ccessful,	
	d	display a	success	message	
	a	and refre	sh the user	r details.	
	8. I	lf an erro	or occurs	during the	
	u	update,	display	an error	
	n	message.			



Test ID	T010 – Lo	T010 – Login – Vendor						
Testing	White box	White box testing						
Туре								
Test	Control Fl	ow Testing	g, Inp	out Validation,	Session	Managem	ent	
Strategy								
Test	Vendor Au	uthenticatio	on					
Class								
Test Case	Test requi	irements	Tes	t / step proced	lure	Expected	l	
ID	MA					output		
TC10_1	Validate	that the	1.	Ensure the	login	The syste	em	
	system	correctly		form is sub-	mitted	should		
	authentica	tes the		(POST['subm	it']).	authentic	ate	
SUIT	vendor's	login	2.	Capture the	input	valid		
NNN -	credentials	s and		fields use	rname	credentia	ls,	
سيا ملا	manages	session		and password	l from	initiate	a	
0 ⁴ 0 ⁴	data.	••		the S	form	session, a	nd	
NIVERSIT	TEKN			submission.		redirect t	the	
			3.	Construct a	SQL	vendor	to	
				query to che	ck the	the		
				vendor table	for a	dashboar	d.	
				matching use	rname	Invalid		
				and pas	sword	credentia	ls	
				(hashed	using	should		
				md5).		trigger	an	
			4.	Execute the	query	error		
				and check	if a	message		
				matching ro	ow is	without		
				found.		initiating	а	
			5.	If a match is t	found,	session.		
				set the s	ession			
				variable				

Table 6.4.1.10: Test Description of Login (Vendor)



Table 6.4.1.11: Test Description of View Sales on Dashboard (Vendor)

Test ID	T011 – View Sales	T011 – View Sales on Dashboard – Vendor						
Testing	White box testing	White box testing						
Туре								
Test	Control Flow Test	Control Flow Testing, Data Validation, SQL Query Execution						
Strategy								
Test	Data Retrieval and	l Display						
Class	IA							
Test Case	Test	Test / step procedure	Expected					
ID	requirements		output					
TC11_1	Validate that the	1. Ensure the user is	The					
	system correctly	logged in	system					
Star =	retrieves and	(\$_SESSION['v_id']),	should					
, NN -	displays all	redirect to login.php	accurately					
Do lu	necessary data on	if not.	retrieve					
**	the Vendor's	2. Retrieve and validate	and					
NIVERSI	dashboard,	the vendor ID from	display all					
	including total	the session	required					
	products,	(\$vendor_id =	data on the					
	inventory, sales,	\$_SESSION['v_id']).	vendor's					
	top-selling	3. Execute SQL queries	dashboard,					
	products, and	to fetch:	including					
	alerts.	• Total products	proper					
		• Total inventory	alerts for					
		• Total sales	low stock					
		• Daily, weekly, and	and					
		monthly sales data	expired					
		• Top-selling products	products.					
		• Low stock and	Charts					
		expired products	should be					
			correctly					

	•	Sales by product	rendered
		category	with the
	4.	Verify that the	fetched
		queries are executed	data.
		without errors and	
		return valid data.	
	5.	Merge low stock and	
		expired products into	
		the \$alerts array.	
	6.	Ensure that all	
MALAYSIA		retrieved data is	
		correctly displayed in	
A		the corresponding	
		sections of the	
		dashboard.	
NINN -	7.	Validate that the	
	. /	charts for sales data	
کل ملیسیا مارک		and top-selling	91
		products are	
JNIVERSIII IEKNIKA		generated correctly	KA
		using Chart.js.	

Table 6.4.1.12: Test Description of Update Profile(Vendor)

Test ID	T012 – Update Pro	T012 – Update Profile – Vendor						
Testing	White box testing	White box testing						
Туре								
Test	Control Flow Testi	ng, Data	Validation, SQL Quer	y Execution				
Strategy								
Test	Form Submission a	and Data	Update					
Class								
Test Case	Test	Test / s	tep procedure	Expected				
ID	requirements			output				
TC12_1	Validate that the	1.	Ensure the vendor	The system				
	system correctly		is logged in by	should				
S day	updates the		checking the	successfully				
NNN -	vendor's profile,		\$_SESSION['v_id']	update the				
Mo lu	including handling		session variable. If	vendor's				
**	form submission,		the vendor is not	profile with				
NIVERSI'	validating inputs,		logged in, redirect	validated				
	processing file		to the login page.	inputs. If				
	uploads, and	2.	Upon form	any errors				
	updating the		submission,	occur,				
	database.		validate the input	appropriate				
			fields:	error				
		٠	All fields except	messages				
			the password	should be				
			should be filled in.	displayed.				
		•	Validate the email					
			format.					
		•	Check for a file					
			upload, ensuring					
			the file type and					
			size are correct.					



Table 6.4.1.13: Test Description of Add Product(Vendor)

Test ID	T013 – Add Product – Vendor					
Testing	White box testing					
Туре						
Test	Control Flow Testing	Control Flow Testing, Input Validation, Database Interaction, File				
Strategy	Handling	Handling				
Test	Product Management	Product Management				
Class						
Test Case ID	Test requirements	Test / step procedure	Expected			
3	AK		output			
TC13_1	Validate that the	1. Ensure	The system			
	system correctly	\$_SESSION['v_id']	should			
S V III	handles the addition	is set; redirect to	correctly			
	of a new product,	login.php if not.	validate all			
mul all	ensuring all inputs	2. Retrieve the	inputs,			
00 00	are properly	vendor's	handle			
NIVERSITI	validated, and the	brandname from	image			
	product details are	the vendor table	uploads,			
	stored in the	using v_id.	and store			
	database.	3. When the form is	the product			
		submitted, check if	details in			
		all required fields	the			
		(p_name, about,	database.			
		producedate,	The user			
		expirydate, flavour,	should			
		category, sizes,	receive			
		prices, quantities)	appropriate			
		are filled.	feedback			
		4. Validate the	for success			
		uploaded image	or failure.			
		file:				



	operations, display	
	an appropriate error	
	message.	



Table 6.4.1.14: Test Description of Update Product(Vendor)

Test ID	T014 – Update Product – Vendor				
TestingType	White box testing				
Test Strategy	Control Flow Testing, Input Validation, Database Interaction, File				
	Handling				
Test Class	Product Management				
Test Case ID	Test requirements	Test / step procedure	Expected		
			output		
TC14_1	Validate that the	1. Ensure	The system		
	system correctly	\$_SESSION['v_id'] is	should		
EK	handles the updating	set; redirect to	correctly		
	of an existing	login.php if not.	sanitize		
153	product, ensuring all	2. Retrieve the vendor's	inputs,		
JINN	inputs are properly	brandname from the	handle file		
1.1.1	sanitized, validated,	vendor table using	uploads,		
	and updated in the	v_id.	update		
	database.	3. On form submission,	product		
UNIVERS		sanitize and validate all	details in		
		inputs (p_name, about,	the		
		producedate,	database,		
		expirydate, flavour,	and		
		category, sizes, prices,	provide		
		quantities).	appropriate		
		4. Validate and handle	feedback		
		image upload:	for success		
		• Ensure the file is an	or failure.		
		allowed image type			
		(jpg, jpeg, png, gif).			
		• Ensure the file size is			
		within the allowed limit			
		(max 1024kb).			

	•	Move the file to the
		products directory and
		update the image path
		in the database.
	5.	If no image is uploaded,
		update the product
		details without
		changing the image
		path.
. AV	6.	Update or insert the
WALAYS/A MA		product sizes, prices,
		and quantities in the
A REAL		product_sizes table,
		ensuring that sizes not
		included in the update
SAIN N		are removed from the
		database.
	7.	Update the status of
		each size based on the
UNIVERSITI TERNIKAL		quantity and expiry
		date.
	8.	If all operations succeed,
		display a success
		message; otherwise,
		display appropriate error
		messages.
Table 6.3.1.15: Test Description of Delete Product (Vendor)

Test ID	T015 – Delete Pr	oduc	et – Vendor				
Testing	White box testing	3					
Туре							
Test	Control Flow Tes	Control Flow Testing, Input Validation, Database Interaction					
Strategy							
Test	Product Manager	nent					
Class	SIA						
Test	Test	Tes	t / step procedure	Expected			
Case ID	requirements			output			
TC15_1	Validate that the	1.	Ensure that	The system			
	system correctly		<pre>\$_SESSION['v_id'] is set. If</pre>	should			
Star	handles the		not, the user should be	correctly			
NNN .	deletion of a		redirected to index.php.	handle the			
يا ملا	product,	2.	Check if the menu_del	deletion			
**	ensuring the		parameter is set in the GET	process,			
NIVERS	input is properly		request and is not empty.	including			
	sanitized,	3.	Sanitize the menu_del	sanitization,			
	validated, and		parameter using	execution,			
	the database		<pre>mysqli_real_escape_string()</pre>	and proper			
	interaction is		to prevent SQL injection.	feedback to			
	successful.	4.	Execute the delete query	the user,			
			DELETE FROM product	covering all			
			WHERE p_id =	possible			
			'\$menu_del_id' to remove	paths and			
			the product with the	edge cases.			
			specified p_id from the				
			database.				
		5.	If the deletion is successful				
			and rows are affected,				
			redirect the user to				

	all_product.php with a
	delete_success=1
	parameter.
	6. If no rows are affected,
	display a message indicating
	that no product was found
	with the specified ID.
	7. If the deletion fails, display
	an error message with the
	details of the failure.
MALASIA	8. Test the scenario where
A A A A A A A A A A A A A A A A A A A	menu_del is not set or is
KA	empty, ensuring the system
	displays an appropriate
	message.
AND AND	

اونيۈم سيني تېكنېكل مليسيا ملاك

Table 6.4.1.16: Test Description of Receive Notification for Expired & Low Stock (Vendor)

Test ID	T016 – Receive Notification for Low Stock – Vendor					
TestingType	White box testing					
Test Strategy	Control Flow Testing, Input Validation, Database Interaction, and Session					
	Management					
Test Class	Vendor Dashboard Notifications					
Test Case ID	Test requirements	Test / step proce	edure	Expected		
MALAY	SIA			output		
TC16_1	Validate that the system	1. Verify that	the user	The system		
	correctly fetches	is logged	in by	should		
TEA	notifications for low stock	checking	if	correctly		
E	and expired products,	\$_SESSION	J['v_id']	handle session		
Sym	properly handles session	is set. If r	not, the	checks, fetch		
AIN N	management, and displays	user shou	ld be	and combine		
J alle	notifications on the vendor	redirected	to	alerts for low		
*	dashboard.	stock and				
UNIVERS	ITI TEKNIKAL M	2. Execute	SQL	expired		
OTTVERO		queries to	retrieve	products, and		
		low stock p	products	display the		
		(quantity <	5) and	notifications		
		expired p	products	on the vendor		
		(expirydate	<	dashboard		
		current date)) for the	accurately,		
		logged-in ve	endor.	covering all		
		3. Combine	these	paths and edge		
		results into	a single	cases.		
		array aler	rt for			
		further proce	essing.			
		4. Ensure the a	lerts are			
		correctly di	isplayed			
		on the	vendor			

		dashboard,	
		including proper	
		badge labels for low	
		stock and expired	
		products.	
	5.	Confirm the correct	
		notification count is	
		shown in the bell	
		icon.	



Table 6.4.1.17: Test Description of Receive Request formby Email (Vendor)

Test ID	T017 – Receive Reque	est from Admin – Vendor				
TestingType	White box testing					
Test Strategy	Control Flow Testing, Input Validation, Database Interaction, and					
	Email Functionality					
Test Class	Vendor Request Proce	ssing				
Test Case ID	Test requirements	Test / step procedure	Expected			
AVO			output			
TC17_1	Validate that the	1. Ensure that the	The system			
	system correctly	connection to	should			
	receives requests from	the database is	successfully			
	the admin, processes	established	process the			
53	the request data,	using valid	request,			
INN .	fetches the correct	credentials	fetch the			
11.1.1	product and vendor	(\$servername,	correct			
يسيا مارد	details, and sends an	\$username,	product and			
	email to the vendor.	\$password,	vendor			
JNIVERSIII	I EKNIKAL MA	\$dbname).	details,			
		2. Using the	validate the			
		provided	inputs, and			
		product_name,	send an			
		retrieve the	email to the			
		associated p_id	vendor.			
		and v_id from				
		the product				
		table.				
		3. Fetch the				
		vendor_name				
		and brandname				
		from the vendor				
		table using the				



Test ID	T018 – Login – Ad	min		
Testing	White box testing			
Туре				
Test	Control Flow Test	ing,	Input Validation, Session	on Management, and
Strategy	Security Testing			
Test	Admin Authenticat	ion		
Class	A			
Test Case	Test	Tes	t / step procedure	Expected
ID	requirements			output
TC18_1	Validate that the	1.	Ensure that both	The system
	system correctly		username and	should
VIIINO	handles admin		password fields are	correctly
	login by verifying		provided.	handle admin
سبا ملالا	username and	2.	Validate that a session	login, manage
**	password,		is correctly initiated	sessions
NIVERSI	managing sessions		upon successful login.	securely,
	securely, and	3.	Check if	provide
	providing		\$_SESSION['adm_id']	appropriate
	appropriate		is set correctly.	feedback for
	feedback.	4.	The session variable	success or
			\$_SESSION['adm_id']	failure, and
			should be set upon	protect
			successful login, and	against
			the user should be	security
			redirected to	vulnerabilities
			dashboard.php.	such as SQL
				injection.

Table 6.4.1.18: Test Description of Login (Admin)

Table 6.4.1.19: Test Description of View Dashboard Data (Admin)

	Test ID	T019 – View Dasht	ooarc	l Data – Admin				
	Testing	White box testing						
	Туре							
	Test	Control Flow Testin	ng, Ir	nput Validation, Database In	nteraction, Session			
	Strategy	Management						
	Test	Admin Panel Mana	gem	ent				
1 .	Class							
KN:	Test Case	Test 🖇	Tes	t / step procedure	Expected			
-	ID 📃	requirements			output			
14	TC19_1	Ensure the admin	1.	Ensure	The system			
	V31/NO	dashboard loads		\$_SESSION["adm_id"]	should			
	b. 1 (correctly with all		is set; redirect to	correctly			
2	سيا ملالا	components, and		index.php if not.	load and			
	Q.4	the data displayed	2.	Retrieve data for new	display all			
J	NIVERSI	(new vendors,		vendors, SA products,	sections on			
		products,		customers, orders,	the admin			
		customers) is		product categories, new	dashboard,			
		accurate based on		orders, delivered	showing			
		the current date.		orders, canceled orders,	accurate			
				and today's total	data based			
				earnings.	on today's			
			3.	Validate SQL queries	records. If			
				for retrieving today's	any data			
				records from vendor,	retrieval			
				product, customer,	fails, an			
				cust_orders, and	appropriate			
				category tables.	error			
			4.	Display the correct	message			

			number of records in	should	be
			the respective sections	shown.	
			of the dashboard.		
		5.	Verify that the correct		
			total earnings are		
			displayed by summing		
			up the price from		
			cust_orders where		
			status is 'closed'.		
		6.	Check that the PowerBI		
MALAYS	10		link is accessible and		
A CONTRACTOR			correctly integrated.		
	KA	7.	If any error occurs		
			during data retrieval,		
			ensure an error message		
V 31/NO			is displayed.		
661 (/		• \	

Test ID	T020 – Add Vendor –	Admin			
TestingType	White box testing				
Test Strategy	Control Flow Testing,	Input Validation, Databa	se Interaction, File		
	Upload Handling				
Test Class	Vendor Management				
Test Case ID	Test requirements	Test / step procedure	Expected		
			output		
TC20_1	Ensure that the system	1. Check that all	The system		
Rt In	correctly adds a new	required fields	should		
7	vendor, including	(res_name,	correctly		
	validating inputs,	icnum, phone,	validate all		
	handling file uploads,	email, gender,	input fields,		
SUIT	and storing data in the	vaccine,	handle file		
NNN -	database.	address,	uploads		
لسبا ملاك	کند ک	brandname,	according		
00 00	0.	username,	to the		
NIVERSITI	TEKNIKAL MA	password) are	specified		
		filled. If any are	criteria,		
		empty, display	insert the		
		an error	vendor's		
		message.	information		
		2. Ensure the	into the		
		phone number	database,		
		contains 10 to 11	and provide		
		digits.	appropriate		
		3. Validate the IC	feedback to		
		number follows	the user,		
		the format	whether the		
		XXXXXX-XX-	operation		
		XXXX.	succeeds or		
		4. Verify that the	fails.		

Table 6.4.1.20: Test Description of Add Vendor (Admin)



	problem.	
	12. If the vendor is	
	successfully	
	added, display a	
	success message	
	confirming the	
	addition.	



Table 6.4.1.21: Test Description of Update Vendor(Admin)

Test ID	T021 – Update Vendor	- Ad	min				
TestingType	White box testing						
Test Strategy	Control Flow Testing, Input Validation, Database Interaction, File						
	Upload Handling						
Test Class	Vendor Management						
Test Case ID	Test requirements	Tes	t / step procedure	Expected			
MALAYSIA				output			
TC21_1	Ensure that the system	1.	Ensure all	The system			
2	correctly updates the		required fields	should			
	vendor's profile details,		(res_name,	correctly			
	including handling		icnum, phone,	validate the			
Star	optional password		email, gender,	input fields,			
NNN -	updates and image		vaccine,	handle			
Mr lund	uploads.		address,	optional			
			brandname,	password			
NIVERSITI	TEKNIKAL MA		username) are	and image			
			filled; if any	updates,			
			are empty,	update the			
			display an error	vendor's			
			message.	information			
		2.	Validate the	in the			
			uploaded file's	database,			
			extension and	and provide			
			size; store the	appropriate			
			file in	feedback to			
			/Res_img/ if	the user,			
			valid.	whether the			
		3.	If the password	operation			
			field is filled,	succeeds or			
			hash the new	fails.			

				password using	
				md5 and	
				include it in the	
				include it in the	
				update.	
			4.	Construct and	
				execute the	
				SQL query to	
				update the	
				vendor's details	
				in the vendor	
	MALAYSIA			table.	
1 .	S. C.		5.	Display	
KN				appropriate error	
F				or success	
14				messages based	
	A B 1 IN			on the outcome.	
	TC21_2	Validate that the	1.	After updating	The
5	TC21_2	Validate that the changes are saved	1. 2.	After updating the vendor	The database
و	TC21_2	Validate that the changes are saved correctly in the	1. 2.	After updating the vendor information.	The database should
و ا	TC21_2	Validate that the changes are saved correctly in the database		After updating the vendor information, query the	The database should accurately
و ا	TC21_2	Validatethatthechangesaresavedcorrectlyinthedatabase.		After updating the vendor information, query the database to	The database should accurately reflect_the
و	TC21_2	Validate that the changes are saved correctly in the database.		After updating the vendor information, query the database to retrieve the	The database should accurately reflect the updated
و ا	TC21_2	Validate that the changes are saved correctly in the database.		After updating the vendor information, query the database to retrieve the updated vendor	The database should accurately reflect the updated wendor
و	TC21_2	Validate that the changes are saved correctly in the database.		After updating the vendor information, query the database to retrieve the updated vendor datails	The database should accurately reflect the updated vendor
و	TC21_2	Validate that the changes are saved correctly in the database.		After updating the vendor information, query the database to retrieve the updated vendor details.	The database should accurately reflect the updated vendor details,
و	TC21_2	Validate that the changes are saved correctly in the database.	1. LA 2.	After updating the vendor information, query the database to retrieve the updated vendor details. Verify that the	The database should accurately reflect the updated vendor details, confirming
و ا	TC21_2	Validate that the changes are saved correctly in the database.	1. 2.	After updating the vendor information, query the database to retrieve the updated vendor details. Verify that the vendor details in	The database should accurately reflect the updated vendor details, confirming that the
٤	TC21_2	Validate that the changes are saved correctly in the database.	1. 2.	Afterupdatingthevendorinformation,querythedatabasetoretrievetheupdatedvendordetails.Verifythatvendordetails inthedatabase	The database should accurately reflect the updated vendor details, confirming that the changes
و	TC21_2	Validate that the changes are saved correctly in the database.	1. 2.	After updating the vendor information, query the database to retrieve the updated vendor details. Verify that the vendor details in the database match the	The database should accurately reflect the updated vendor details, confirming that the changes were saved

Table 6.4.1.22: Test Description of Delete Vendor (Admin)

Test ID	T022 – Delete Vendor – Admin									
TestingType	White box testing	White box testing								
Test Strategy	Control Flow Testing, Input Validation, Database Interaction,									
	Session Management.									
Test Class	Vendor Management									
Test Case ID	Test requirements	Expected								
MALAYSIA		output								
TC22_1	Validate that the	1. Check if the	-The system							
8	admin can delete an	res_del	should							
÷	existing vendor from	parameter is set	display a							
	the system.	in the URL. If	confirmation							
Star		not, redirect to	message							
INN -		the vendor list	indicating							
Mo lund	a Gić	page.	that the							
		2. Sanitize the	vendor has							
NIVERSITI	TEKNIKAL M	res_del	been							
		parameter to	successfully							
		prevent SQL	deleted.							
		injection	-The deleted							
		attacks.	vendor							
		3. Execute the	should no							
		SQL query to	longer							
		delete the	appear in the							
		vendor record	vendor list.							
		based on the								
		sanitized								
		vendor_id.								
		4. If the deletion is								
		successful,								
		redirect the user								

		to the vendor list
		page with a
		success
		message.
	5.	If the deletion
		fails, display an
		error message
		showing the
		reason for the
		failure.



Table 6.4.1.23: Test Description of Update Order Status (Admin)

Test ID	T023 – Update Order Status – Admin									
Testing	White box testing									
Туре										
Test	Control Flow Tes	Control Flow Testing, Input Validation, Database Interaction, Session								
Strategy	Management	Management								
Test	Order Manageme	Order Management								
Class	SIA									
Test	Test	Tes	t / step procedure	Expected						
Case ID	requirements			output						
TC23_1	Validate that the	1.	Ensure the OrderID is	The system						
E E	system correctly		retrieved from the URL and	should						
Star 1	updates the order		sanitized using	correctly						
NNN -	status, inserts		mysqli_real_escape_string.	update the						
In all	remarks, and	2.	When the form is	order						
**	manages payment		submitted, capture and	status,						
NIVERS	and order		sanitize the input fields	manage						
	preparation status		(status and remark) using	payment						
	based on the		mysqli_real_escape_string.	and order						
	current status.	3.	Verify that the remark is	preparation						
			correctly inserted into the	status						
			remark table with the	based on						
			associated OrderID and	the input,						
			status.	and						
		4.	Retrieve the payment_id	provide						
		from the cust_orders table								
			and store it.	feedback						
		5.	Update the order status in	messages						
			the cust_orders table:	for success						
		•	If the status is "closed,"	or failure.						
			update the status to							

	"closed" and order_prepare
	to "complete."
	• For other statuses, update
	only the status.
	6. Always update the
	payment status in the
	payment table based on the
	status:
	• If status is "rejected,"
	update the payment and
MALAYSIA	order_prepare status to
	"rejected."
A	• For other statuses, update
	payment status to
S.	"success."
NNN .	7. If the update is successful,
	display a success message. If
میبسیا مارد	not, display an error message.

Table 6.4.1.24: Test Description of View Sales Report(Admin)

Test ID	T024 – View Sales R	T024 – View Sales Reports – Admin								
TestingType	White box testing	White box testing								
Test Strategy	Control Flow Testing, Input Validation, Database Interaction, Visualization Validation									
Test Class	Admin Dashboard Da	Admin Dashboard Data Visualization.								
Test Case ID	Test requirements	Test requirements Test / step procedure								
ALAYSI			output							
TC24_1	Validate that the	1. Start a session	The system							
	system correctly	and include the	should							
ŭ	retrieves and displays	connection file.	correctly							
	sales data, including	2. Check if the	retrieve and							
52	the total number of	admin is logged	display sales-							
31/Nn	vendors, products,	in by verifying	related data,							
4510	customers, and	the adm_id	including the							
	orders for each	total number								
NIVERSIT	month of the selected year, ensuring	redirect to index.php.	of vendors, products, and							
	accurate calculation	3. Retrieve distinct	customers.							
	and representation of	years from								
	earnings and order	cust_orders for								
	statuses.	year selection.								
		4. Set the selected								
		year to the								
		current year or								
		the year								
		provided by the								
		user.								
		5. Retrieve the								
		total number of								
		vendors,								



		11.	Provide	year	
			selection	and	
			overview	cards	
			for total ve	endors,	
			products,	and	
			customers		
		12.	Generate	bar	
			charts for	orders	
			per month	n, line	
			charts	for	
MALAYSIA	10		earnings, a	and pie	
	in a		charts for	order	
	KA		statuses	and	
			payment		
S III			methods.		
NIND -		13.	Include	error	
			handling	for	
ليسيا ملالا	کنیکل م		database		
			queries.		
NIVERSITI	TEKNIKAL M	14.	Conclude	by	
			including		
			Bootstrap	and	
			jQuery scr	ipts.	

Table 6.4.1.25: Test Description of View Product Sales (Admin)

Test ID	T025 – View Product Sales – Admin								
TestingType	White box testing								
Test Strategy	Control Flow Testin	Control Flow Testing, Input Validation, Database Interaction,							
	Pagination Validation, Data Visualization								
Test Class	Admin Report Management								
Test Case ID	Test requirements	Test requirements Test / step procedure							
MALAYSIA		output							
TC25_1	Validate that the	1. Start a session	The system						
3	system retrieves and	and ensure the	should						
	displays the correct	user is logged in	display						
	product sales data	as an admin. If	product						
S Z T	based on payment	not, redirect to	sales data						
, in the second	methods for the	the login page.	accurately						
mil all	selected month.	2. Retrieve and	for the						
00 00	Ensure correct	validate the	selected						
NIVERSITI	pagination, sorting,	selected month	month,						
	and chart	from \$_POST or	categorized						
	visualization.	\$_GET or default	by payment						
		to the current	methods,						
		month.	with proper						
		3. Connect to the	pagination						
		database and	and sorting.						
		check the	Charts						
		connection	should be						
		status.	correctly						
		4. Calculate	populated						
		pagination	with the top						
		variables and	10 most						
		determine the	purchased						
		starting index	items,						

			based on the	grouped by
			current page.	food type,
		5.	Retrieve the total	and should
			number of	reflect the
			distinct products	accurate
			sold within the	quantities
			selected month,	sold.
			ensuring the	
			correct query is	
			constructed.	
MALAYSIA	17.	6.	Calculate the	
	RIL P		total number of	
	KA		pages required	
			for the results.	
State		7.	Fetch the sorted	
31INN			product sales	
51.	16.6		data based on the	•
			selected month,	291
			ensuring correct	
NIVERSIII	I ENNIKAL WI		JOINs between	NA
			cust_orders,	
			product, and	
			product_category	
			tables.	
		8.	Display the	
			fetched data in a	
			table format,	
			ensuring all data	
			points (product	
			names,	
			quantities) are	
		C	correctly aligned.	
		9.	Validate that the	



Table 6.4.1.26: Test Description of View RevenueReports by Payment Method (Admin)

	Test ID	T026 – View Revenue Reports by Payment Method – Admin									
	Testing	White box testing	White box testing								
	Туре										
	Test	Control Flow Testing, Input Validation, Database Interaction, Data									
	Strategy	Visualization	Visualization								
	Test	Revenue Report M	Revenue Report Management								
	Class	MA									
(NI)	Test Case	Test	Tes	t / step procedure	Expected						
1 E	ID –	requirements			output						
12	TC26_1	Validate that the	1.	Ensure	The						
	S A B A B A B A B A B A B A B A B A B A	system accurately		\$_SESSION['adm_id'] is	system						
	NNN -	retrieves and		set; redirect to index.php if	should						
5	سا ملا	displays the total		not.	correctly						
	**	revenue and	• 2.	Retrieve the selected month	calculate						
J	NIVERSI	revenue by from Average and and									
		payment method		<pre>\$_POST['selected_month'],</pre>	display						
		(Card, Cash, In		defaulting to the current	the total						
		Store) for the		month.	revenue						
		selected month,	3.	Set the date range for the	and						
		using the correct		selected month using the	revenue						
		date range.		first and last day.	per						
			4.	Execute the SQL query to	payment						
				calculate the total revenue	method						
				for the selected month.	for the						
			5.	Execute the SQL queries to	selected						
				calculate the revenue by	month.						
				payment method (Card,							
				Cash, In Store) for the							
				selected month.							

	6. Store the resulting revenue
	data in variables for display
	in the HTML.
	7. Display the revenue data in
	a table format, showing the
	total revenue and revenue
	per payment method.
	8. Display bar and donut
	charts to visualize the
	revenue by payment
MALAYSIA	method using Google
SH IN MAL	Charts
P R	O Handla and among during
	9. Handle any errors during
	SQL execution by displaying
	an error message.

Table 6.4.1.27: Test Description of Backup and RecoverDatabase (Admin)

Test ID	T027 – Backup and Recover Database – Admin						
Testing Type	White box testing						
Test Strategy	Control Flow Testing, Input Validation, File Handling, Database Interaction						
Test Class	Database Managen	nent					
Test Case	Test	TestTest / step procedureExp					
ID	requirements		output				
TC27_1	Validate that the	1.Establish a database	The system				
1.Pt	system correctly	connection using the	should				
KN1	backs up the	provided host,	successfully				
TE	database to an	username, password,	create a				
I.L.	SQL file and	and database name. If	backup of the				
o'd an Ale	recovers the	the connection fails,	database,				
NN N	database from the	terminate the script with	save it to a				
با ملاك	latest backup file.	specified					
	. 0	2.Retrieve all table names	directory, and				
UNIVER	SITI TEKNIK	from the database using	recover the				
		the SHOW TABLES	database				
		command. Handle any	from the				
		errors in retrieving the	latest backup				
		tables.	file with				
		3. Generate an SQL script	appropriate				
		for creating table	feedback for				
		structures and inserting	success or				
		data for each table.	failure.				
		Ensure proper					
		formatting and data					
		escape handling.					
		4. Write the generated SQL					
		script to a backup file in					
		the specified directory.					



Table 6.4.1.28: Test Description of Power BI DashboardIntegration (Admin)

Test ID	T028 – Power BI Dashboard Integration – Admin							
TestingType	White box testing							
Test Strategy	Control Flow Testing, UI Interaction, External Link Validation							
Test Class	Admin Dashboard Management							
Test Case ID	Test requirements	Tes	st / s	step procedure	Expectedoutput			
TC28_1	Validate that the		1.	Ensure the admin is	The Power BI			
	system correctly			logged in by	dashboard link			
MALAYS	integrates the Power			verifying the	should be correctly			
	BI dashboard link			session variable	rendered on the			
EK	into the admin panel			<pre>\$_SESSION["adm_</pre>	admin panel and			
	and ensures the link			id"]. Redirect to the	should redirect to			
LIS2	redirects to the			login page if not	the specified Power			
31/NO	appropriate Power BI			set.	BI report URL			
1 1 1 2	report.		2.	Verify that the	when clicked. The			
سا مارك	ىيەكى مىي			Power BI dashboard	report should load			
				link is correctly	without errors, and			
UNIVERSI	IIIEKNIKAL	Ν		rendered on the	unauthorized users			
				admin panel using	should not have			
				the <a> tag.	access to the link.			
			3.	Click on the Power				
				BI dashboard link				
				and ensure it				
				redirects to the				
				expected URL:				
				https://app.powerbi.				
				com/groups/me/rep				
				orts/a52160cf-b73d-				
				4e74-be60-				
				78ed15ed28a0/6c2c				
				aea66dfe38578170?				



6.4.2 Test Data

Table 6.4.2.1: Test Data of Register (Customer)

	Test Scenario	Input Data	Expected Result
	Missing Username	{'username': ", 'name': 'Roslan	Error message
		Huzaimy', 'email': 'roslan@gmail.com',	indicating that the
		'phone': '1234567859', 'password':	username field is
		'cc079201c0405996aca524961b6e17de',	required.
		'address': 'No.33, Lorong Taman Ayer	
	WALAYSIA MA	Keroh Jaya, Melaka'}	
11.	Missing Name	{'username': 'Roslan', 'name': ", 'email':	Error message
EK/		'roslan@gmail.com', 'phone':	indicating that the
		'1234567859', 'password':	name field is
4.	SZ	'cc079201c0405996aca524961b6e17de',	required.
	NNN -	'address': 'No.33, Lorong Taman Ayer	
5		Keroh Jaya, Melaka'}	
	Invalid Email	{'username': 'Roslan', 'name': 'Roslan	Error message
	Format	Huzaimy', 'email': 'roslan.com', 'phone':	indicating that the
	NIVERSIIIII	'1234567859', 'password':	email format is
		'cc079201c0405996aca524961b6e17de',	invalid.
		'address': 'No.33, Lorong Taman Ayer	
		Keroh Jaya, Melaka'}	
	Valid Registration	{'username': 'Roslan', 'name': 'Roslan	User should be
	Data	Huzaimy', 'email': 'roslan@gmail.com',	successfully
		'phone': '1234567859', 'password':	registered, and a
		'cc079201c0405996aca524961b6e17de',	confirmation
		'address': 'No.33, Lorong Taman Ayer	message should be
		Keroh Jaya, Melaka'}	sent

Test Scenario	Input Data	Expected Result
Missing	{'username': ", 'password':	Error message
Username	'cc079201c0405996aca524961b6e17de'}	indicating that the
		username field is
		required.
Missing Password	{'username': 'Roslan', 'password': "}	Error message
		indicating that the
		password field is
V MALAYSIA M		required.
Invalid Username	{'username': 'ruslan', 'password':	Error message
	'cc079201c0405996aca524961b6e17de'}	indicating that the
		username does not
YS-		exist.
Valid Credentials	{'username': 'Roslan', 'password':	User should be
	'cc079201c0405996aca524961b6e17de'}	successfully
مليسيا مالاك	یرسیبی بیکسیک	logged in, and a
		session should be
	EKNIKAL MALAYSIA MEL	created.

Table 6.4.2.2: Test Data of Login (Customer)

Test Scenario	Input Data	Expected Result
Missing Email	{'email': "}	Error message indicating
		that the email field is
		required.
Invalid Email Format	{'email': Roslan.com'}	Error message indicating
		that the email format is
		invalid.
Email Not Registered	{'email':	Error message indicating
MALATSIA 14	'roslan@hotmail.com'}	that the email is not
AT IT PA		registered.
Valid Email	{'email':	A reset link should be
	'roslan@gmail.com'}	sent to the provided
		email.

Table 6.4.2.3: Test Data of Reset Password (Customer)

Table 6.4.2.4: Test Data of Order Product (Customer)

Test Scenario	Input Data	Expected Result
Valid Product Selection	{'co_id': '24', 'c_id': '112',	The system should correctly
	'name': 'Coklat B40 Coklat',	add items to the cart and
	'quantity': '2', 'price': '14',	display an accurate order
	'size': 'medium', 'status': 'in	summary.
	process', 'date': '24/1/2023	
	11:14', 'order_prepare': 'in	
	process', 'delivery_option':	
	'pickup', 'order_time':	
	'24/1/2023 11:14',	
	'totalamount': '28',	
	'grandtotal': '28', 'orderID':	
	'ORDER-663474',	
	'payment_id': '9', 'v_id': '21',	
	'p_id': '101'}	

	Invalid Product ID	{'co_id': '24', 'c_id': '112',	Error message indicating
		'name': 'Coklat B40 Coklat',	that the product does not
		'quantity': '1', 'price': '14',	exist.
		'size': 'medium', 'status': 'in	
		process', 'date': '24/1/2023	
		11:14', 'order_prepare': 'in	
		process', 'delivery_option':	
		'pickup', 'order_time':	
		'24/1/2023 11:14',	
		'totalamount': '14',	
		'grandtotal': '14', 'orderID':	
	MALAYSIA	'ORDER-663474',	
1 .	P. In the part of	'payment_id': '9', 'v_id': '21',	
KN.	KA	'p_id': '999'}	
F	Expired Product	{'co_id': '24', 'c_id': '112',	Error message indicating
	1		8
141		'name': 'Coklat B40 Coklat',	that the product is expired.
121	SUBAL	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14',	that the product is expired.
141	SURAINO	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in	that the product is expired.
12 - 1-1-1	BUS Lunto V	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023	that the product is expired.
141	کل ملیسیا ملا	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in	that the product is expired.
1 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	کل ملیسیا ملا NIVERSITI TEKN	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option':	that the product is expired.
6	کل ملیسیا ملاط NIVERSITI TEKN	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option': 'pickup', 'order_time':	that the product is expired.
141 P	كل مليسيا ملا NIVERSITI TEKN	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option': 'pickup', 'order_time': '24/1/2023 11:14', 'tatalamount'i '14'	that the product is expired.
141 P	كل مليسيا ملا NIVERSITI TEKN	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option': 'pickup', 'order_time': '24/1/2023 11:14', 'totalamount': '14',	that the product is expired.
141 N	كل مليسيا ملا NIVERSITI TEKN	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option': 'pickup', 'order_time': '24/1/2023 11:14', 'totalamount': '14', 'grandtotal': '14', 'orderID':	that the product is expired.
	كل مليسيا ملا NIVERSITI TEKN	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option': 'pickup', 'order_time': '24/1/2023 11:14', 'totalamount': '14', 'grandtotal': '14', 'orderID': 'ORDER-663474',	that the product is expired.
	کل ملیسیا ملا	'name': 'Coklat B40 Coklat', 'quantity': '1', 'price': '14', 'size': 'medium', 'status': 'in process', 'date': '24/1/2023 11:14', 'order_prepare': 'in process', 'delivery_option': 'pickup', 'order_time': '24/1/2023 11:14', 'totalamount': '14', 'totalamount': '14', 'grandtotal': '14', 'orderID': 'ORDER-663474', 'payment_id': '9', 'v_id': '21',	that the product is expired.

Table 6.4.2.5: Test Data of Delivery Method (Customer)

Test Scenario	Input Data	Expected Result
Valid Delivery Option	{'delivery_option':	The system should
	'pickup'}	correctly store the
		delivery option and

		redirect to the checkout
		page.
Invalid Delivery Option	{'delivery_option':	Error message indicating
	'invalid_option'}	that the delivery option is
		invalid.

Table 6.4.2.6: Test Data of Choose Payment Method (Customer)

	Test Scenario	Input Data	Expected Result
	Valid Cash Payment	{'payment_method':	The system should
EKN	KA	'cash'}	correctly process the
F			payment and update the
4			order status.
	Invalid Card Details	{'payment_method': 'card',	Error message indicating
		'card_number': '1234 5678	that the card details are
1	ڪل مليسيا ملالا	9012 3456', 'expiry_date':	invalid or expired.
		'01/20', 'cvv': '123'}	
J	NIVERSITI TEKN	IKAL MALAYSIA I	MELAKA

Table 6.4.2.7: Test Data of Track Order Status (Customer)

Test Scenario	Input Data	Expected Result	
Valid Order ID	{'orderID': 'ORDER-	The system should	
	478058'}	correctly display the order	
		details and allow	
		cancellation if applicable.	
Invalid Order ID	{'orderID': 'ORDER-	Error message indicating	
	333333'}	that the order ID does not	
		exist.	

Table 6.4.2.8: Test Data of View and Download Receipt (Customer)

Test Scenario	Input Data	Expected Result	
Valid Order ID	{'orderID': 'ORDER-	The system should	
	478058'}	correctly generate and	
		display the receipt details.	
Invalid Order ID	{'orderID': 'ORDER-	Error message indicating	
	333333'}	that the order ID does not	
AVSI		exist.	

Table 6.4.2.9: Test Data of Update Profile (Customer)

Test Scenario	Input Data	Expected Result
Valid Address	{'username': 'Roslan', 'name': 'Roslan	User should be
Sela	Huzaimy', 'email': 'roslan@gmail.com',	successfully
AINN -	'phone': '1234567859', 'password':	registered with the
sha ('cc079201c0405996aca524961b6e17de',	valid address.
	'address': 'No.33, Lorong Taman Ayer	9.5
	Keroh Jaya, Melaka'}	ΛΚΛ
Invalid Address	{'username': 'Roslan', 'name': 'Roslan	Error message
	Huzaimy', 'email': 'roslan@gmail.com',	indicating that the
	'phone': '1234567859', 'password':	address is invalid.
	'cc079201c0405996aca524961b6e17de',	
	'address': '123 Invalid Address'}	

Table 6.4.2.10: Test Data of Login (Vendor)

Test Scenario	Input Data	Expected Result
Missing	{'username': ", 'password':	Error message
Username	'cc079201c0405996aca524961b6e17de'}	indicating that the
		username field is
		required.
Missing Password	{'username': 'faezah', 'password': "}	Error message
-------------------	---------------------------------------	---------------------
		indicating that the
		password field is
		required.
Invalid Username	{'username': 'fazah', 'password':	Error message
	'cc079201c0405996aca524961b6e17de'}	indicating that the
		username does not
		exist.
Valid Credentials	{'username': 'faezah', 'password':	Vendor should be
	'cc079201c0405996aca524961b6e17de'}	successfully
MALAYSIA		logged in, session
	3	should be created,
	KA	and the user
		should be
		redirected to the
NN/NO		dashboard.
		•

Table 6.4.2.11: Test Data of View Sales on Dashboard UNIVERSITIEKNIKAL (Vendor)

Test Scenario	Input Data	Expected Result
Valid Vendor ID	{'v_id': '10'}	The system should
		correctly retrieve and
		display all required data
		on the vendor's
		dashboard.
Invalid Vendor ID	{'v_id': '00'}	Error message indicating
		that the vendor ID does
		not exist.

Test Scenario	Input Data	Expected Result
Valid Profile	{'v_id': 10, 'name': 'Nur Faizah', 'icnum':	The system should
Update	'870612000000', 'phone': '01128364927',	correctly update
	'email': 'fiyahx12@gmail.com', 'gender':	the vendor's profile
	'Female', 'address': 'No.10 , Jalan Tasik	and display a
	Utama 36, Taman Tasik Utama Ayer	success message.
	Keroh', 'vaccine': 'Yes', 'brandname':	
	'Faezah Bakery', 'image':	
MALAYSIA	'6680cf9bb3691.jpg', 'date': '19/6/2024	
F N	12:18', 'username': 'faezah', 'password':	
	'cc079201c0405996aca524961b6e17de'}	
Invalid Email	{'v_id': 10, 'name': 'Nur Faizah', 'icnum':	Error message
Format	'870612000000', 'phone': '01128364927',	indicating that the
31/NO	'email': 'fiyahx12@gmail', 'gender':	email format is
	'Female', 'address': 'No.10 , Jalan Tasik	invalid.
مليسيا ملاك	Utama 36, Taman Tasik Utama Ayer	اويو
	Keroh', 'vaccine': 'Yes', 'brandname':	
INIVERSITI TI	'Faezah Bakery', 'image':	AKA
	'6680cf9bb3691.jpg', 'date': '19/6/2024	
	12:18', 'username': 'faezah', 'password':	
	'cc079201c0405996aca524961b6e17de'}	
Missing Required	{'v_id': 10, 'name': 'Nur Faizah', 'icnum':	Error message
Fields	'870612000000', 'phone': '01128364927',	indicating that
	'email': ", 'gender': 'Female', 'address':	required fields are
	'No.10 , Jalan Tasik Utama 36 , Taman	missing.
	Tasik Utama Ayer Keroh', 'vaccine':	
	'Yes', 'brandname': 'Faezah Bakery',	
	'image': '6680cf9bb3691.jpg', 'date':	
	'19/6/2024 12:18', 'username': 'faezah',	
	'password':	
	'cc079201c0405996aca524961b6e17de'}	

Table 6.4.2.12: Test Data of Update Profile (Vendor)

	Test Scenario	Input Data	Expected Result
	Valid Product Data	{'p_id': 1, 'v_id': 10,	The system should
		'name': 'Kek Pandan	correctly validate all
		Cheese', 'description':	inputs, handle image
		'Gula, Telur, Ovelatte,	uploads, and store the
		Minyak Masak, Pewarna	product details in the
	MALAYSIA	Hijau, Perisa Pandan,	database.
	At MA	Tepung Gandum, Baking	
N.	PK A	Powder, Cream Cheese	
	P	Tatura, Susu Cair, Susu	
14		Pekat Manis',	
	S day	'producedate': '20/8/2024',	
	NNN -	'expirydate': '30/8/2024',	
5	کا ملسبا ملا	'img':	ا و بنوم به
	0	'6680c26209b64.jpeg',	
	NIVERSITI TEKN	'flavour': 'Pandan', 'date':	JELAKA
		'30/6/2024', 'category_id':	
		2, 'img_blob': '[BLOB -	
		7.5 KiB]'}	
	Invalid Image File Type	{'p_id': 1, 'v_id': 10,	Error message indicating
		'name': 'Kek Pandan	that the image file type is
		Cheese', 'description':	invalid.
		'Gula, Telur, Ovelatte,	
		Minyak Masak, Pewarna	
		Hijau, Perisa Pandan,	
		Tepung Gandum, Baking	
		Powder, Cream Cheese	
		Tatura, Susu Cair, Susu	
		Pekat Manis',	
		'producedate': '20/8/2024',	

Table 6.4.2.13: Test Data of Add Product (Vendor)

'expirydate': '30/8/2024',	
'img': 'invalid_file.txt',	
'flavour': 'Pandan', 'date':	
'30/6/2024', 'category_id':	
2, 'img_blob': '[BLOB -	
7.5 KiB]'}	

Table 6.4.2.14: Test Data of Update Product (Vendor)

Test Scenario	Input Data	Expected Result
Valid Product Update	{'p_id': 1, 'v_id': 10,	The system should
PX PX	'name': 'Kek Pandan	correctly update the
	Cheese', 'description':	product details in the
F	'Gula, Telur, Ovelatte,	database and provide a
643	Minyak Masak, Pewarna	success message.
AINN -	Hijau, Perisa Pandan,	
SMalunda 14	Tepung Gandum, Baking	laine H
	Powder, Cream Cheese	
INIVERSITI TEKN	Tatura, Susu Cair, Susu	
	Pekat Manis',	
	'producedate': '31/8/2024',	
	'expirydate': '10/9/2024',	
	'img':	
	'6680c26209b64.jpeg',	
	'flavour': 'Pandan', 'date':	
	'30/6/2024', 'category_id':	
	2, 'img_blob': '[BLOB -	
	7.5 KiB]'}	
Missing Required Fields	{'p_id': 1, 'v_id': 10,	Error message indicating
	'name': 'Kek Pandan	that required fields are
	Cheese', 'description':	missing.
	'Gula, Telur, Ovelatte,	
	Minyak Masak, Pewarna	

	Hijau, Perisa Pandan,	
	Tepung Gandum, Baking	
	Powder, Cream Cheese	
	Tatura, Susu Cair, Susu	
	Pekat Manis',	
	'producedate': '31/8/2024',	
	'expirydate': '10/9/2024',	
	'img':	
	'6680c26209b64.jpeg',	
	'flavour': ", 'date':	
MALAYSIA	'30/6/2024', 'category_id':	
	2, 'img_blob': '[BLOB -	
KA	7.5 KiB]'}	

Table 6.4.2.15: Test Data of Delete Product (Vendor)

Test Scenario	Input Data	Expected Result
Valid Product ID	{'p_id': '1'}	The system should
JNIVERSITI TEKN	IKAL MALAYSIA	correctly delete the
		product and provide a
		success message.
Invalid Product ID	{'p_id': '0'}	Error message indicating
		that the product ID does
		not exist.

Table 6.4.2.16: Test Data of Receive Notification for LowStock & Expired Products (Vendor)

Test Scenario	Input Data	Expected Result
Valid Vendor ID	{'v_id': '1'}	The system should
		dianlass natifications for
		display notifications for
		low stock and expired
		products.
Invalid Vendor ID	{'v_id': '0'}	Error message indicating
WALAYSIA MA		that the vendor ID does
L'AN		not exist.

Table 6.4.2.17: Test Data of Receive Request from Admin (Vendor)

Test Scenario	Input Data	Expected Result
Valid Product and	{'name': 'Kek Pandan	The system should
Vendor Details	Cheese', 'vendor_name':	correctly process the
	'Nur Faezah', 'brandname':	request, fetch the correct
	'Faezah Bakery'}	product and vendor
		details, and send an email
		to the vendor.
Invalid Product Name	{'name': 'Kek Pandan,	Error message indicating
	'vendor_name': 'Nur	that the product does not
	Faezah', 'brandname':	exist.
	'Faezah Bakery'}	

Test Scenario	Input Data	Expected Result
Missing	{'username': ", 'password':	Error message
Username	'cc079201c0405996aca524961b6e17de'}	indicating that the
		username field is
		required.
Missing Password	{'username': 'ccbd', 'password': "}	Error message
		indicating that the
		password field is
MALAYSIA M		required.
Invalid Username	{'username': 'invalidadmin', 'password':	Error message
	'cc079201c0405996aca524961b6e17de'}	indicating that the
		username does not
YS2		exist.
Valid Credentials	{'username': 'ccbd', 'password':	Admin should be
	'cc079201c0405996aca524961b6e17de'}	successfully
مليسيا ملاك	برسيني بيصيص	logged in, session
	0.0	should be created,
NIVERSITI T	EKNIKAL MALAYSIA MEL	and the user
		should be
		redirected to the
		dashboard.

Table 6.4.2.18: Test Data of Login (Admin)

Table 6.4.2.19: Test Data of View Dashboard Data (Admin)

Test Scenario	Input Data	Expected Result
Valid Admin ID	{'adm_id': '1'}	The system should correctly retrieve and
		display all required data on the admin's dashboard.
Invalid Admin ID	{'adm_id': '0'}	Error message indicating that the admin ID does not exist.

Table 6.4.2.20: Test Data of Add Vendor (Admin)

	Test Scenario	Input Data	Expected Result
	Valid Vendor	{'v_id': 12, 'name': 'Nur Fazilah',	The system should
5	Data	'icnum': '761218-01-1837', 'phone':	correctly validate
		'0128472293', 'email':	all inputs, handle
J		'fiyahx12@gmail.com', 'gender':	file uploads, and
		'Female', 'vaccine': 'Yes', 'address':	store the vendor
		'No.55 , Jalan Tasik Utama 28 , Taman	details in the
		Tasik Utama Ayer Keroh', 'brandname':	database.
		'Fazilah Bakery', 'image':	
		'667993075cef7.jpg', 'date': '24/6/2024	
		23:38', 'username': 'fazilah', 'password':	
		'cc079201c0405996aca524961b6e17de'}	
	Invalid IC Format	{'v_id': 12, 'name': 'Nur Fazilah',	Error message
		'icnum': '1234', 'phone': '0128472293',	indicating that the
		'email': 'fiyahx12@gmail.com', 'gender':	IC number is in
		'Female', 'vaccine': 'Yes', 'address':	
		'No.55 , Jalan Tasik Utama 28 , Taman	
		Tasik Utama Ayer Keroh', 'brandname':	
		'Fazilah Bakery', 'image':	

'667993075cef7.jpg', 'date': '24/6/2024	
23:38', 'username': 'fazilah', 'password':	
'cc079201c0405996aca524961b6e17de'}	

Table 6.4.2.21: Test Data of Update Vendor (Admin)

Γ	Test Scenario	Input Data	Expected Result
	Valid Vendor	{'v_id': 12, 'name': 'Nur Fazilah	The system should
	Update	Updated', 'icnum': '761218011837',	correctly update
	MALAYSIA	'phone': '0128472293', 'email':	the vendor details
-		'fiyahx12_updated@gmail.com',	in the database and
N N		'gender': 'Female', 'vaccine': 'Yes',	provide a success
-		'address': 'No.55 , Jalan Tasik Utama 28	message.
14		, Taman Tasik Utama Ayer Keroh',	
	V JAINO	'brandname': 'Fazilah Bakery Updated',	
		'image': '667993075cef7_updated.jpg',	- 1
2	مليسيا ملال	'date': '24/6/2024 23:38', 'username':	اويو
	•• ••	'fazilah_updated', 'password':	
J	NIVERSITI TI	'cc079201c0405996aca524961b6e17de'}	AKA
	Missing Required	{'v_id': 12, 'name': ", 'icnum': ", 'phone':	Error message
	Fields	'0128472293', 'email':	indicating that
		'vendorC@example.com', 'gender': ",	required fields are
		'vaccine': 'Yes', 'address': '789 Road',	missing.
		'brandname': ", 'image': 'vendorC.jpg',	
		'date': '24/6/2024 23:38', 'username': ",	
		'password': 'VendorPassword123'}	

Test Scenario	Input Data	Expected Result	
Valid Vendor ID	{'v_id': '1'}	The system should	
		correctly delete the	
		vendor and provide a	
		success message.	
Invalid Vendor ID	{'v_id': '0'}	Error message indicating	
		that the vendor ID does	
AVO		not exist.	

Table 6.4.2.22: Test Data of Delete Vendor (Admin)

Table 6.4	l.2.23: Te	st Data o	f Update	e Orde	r Status
		(Admi	n)		

	Test Scenario	Input Data	Expected Result
	Valid Order Update	{'order_id': ' ORDER-	The system should
5	$M_{\rm e}$	366913', 'status': 'closed',	correctly update the order
	_ میں مارد	'remark': 'Order	status and manage
		completed successfully.'}	payment status
J	NIVERSIII IEKN	INAL MALAYSIA	accordingly.
	Invalid Order ID	{'order_id': '9999', 'status':	Error message indicating
		'closed', 'remark': 'Order	that the order ID does not
		completed successfully.'}	exist.

Table 6.4.2.24: Test Data of View Sales Reports (Admin)

Test Scenario	Input Data	Expected Result
Valid Year and Month	{'year': '2023', 'month':	The system should
	'January'}	correctly retrieve and
		display sales-related data,
		including total vendors,
		products, customers, and

		orders for the selected
		month.
Invalid Year	{'year': '9999', 'month':	Error message indicating
	'January'}	that the year does not
		have any data.
No Data for Selected	{'year': '2022'}	The system should
Year		indicate that no data is
		available for the selected
		year and handle the
1 AV O		scenario gracefully.

Table 6.4.2.25: Test Data of View Product Sales (Admin)

Test Scenario	Input Data	Expected Result
Valid Month	{'month': 'January'}	The system should
AINO		correctly retrieve and
$M_{\rm e}$		display product sales data
	یسی میں سیا	for the selected month,
		with accurate pagination
NIVERSIIIIEKN	KAL MALAYSIA	and sorting.
Invalid Month	{'month': 'InvalidMonth'}	Error message indicating
		that the month is invalid.
No Sales Data for Month	{'month': '2024-09'}	The system should
		indicate that no sales data
		is available for september
		2024 and handle the
		scenario gracefully.
		1

Table 6.4.2.26: Test Data of View Revenue Reports byPayment Method (Admin)

Test Scenario	Input Data	Expected Result
Valid Month and Year	{'month': 'January', 'year':	The system should
	'2023'}	correctly calculate and
		display the total revenue
		and revenue per payment
		method for the selected
		month.
Invalid Month	{'month': 'InvalidMonth',	Error message indicating
The second second	'year': '2023'}	that the month is invalid.

Table 6.4.2.27: Test Data of Backup and Recover

Database (Admin)

Test Scenario	Input Data	Expected Result
Valid Backup and	RAL MALAYSIA	The system should
Recovery		successfully create a
		backup of the database
		and recover it from the
		latest backup file.
Backup Failure	{invalid database	The system should
	connection details}	terminate with an error
		message if the database
		connection fails.
Recovery Failure	{no backup file	The system should
	available}	display an error message
		if no backup file is
		available for recovery.

Test Scenario	Input Data	Expected Result
Valid Power BI	{}	The Power BI dashboard
Integration		should be correctly
		embedded and visible
		within the admin interface
		without errors.
Data Accuracy	{}	The Power BI dashboard
Verification		should display accurate
A A A A A A A A A A A A A A A A A A A		real-time data that
AA		matches the live database.
Unauthorized Access	{non-admin user}	The Power BI dashboard
S.		link should not be visible
AINN .		or accessible to
		unauthorized users or
ڪل مايسيا مارك	ىينى يېڭىيە	users without admin
	**	privileges.
UNIVERSITI TEKNI	KAL MALAYSIA	MELAKA

Table 6.4.2.28: Test Data of Power BI DashboardIntegration (Admin)

6.5 Test Result and Analysis

Table 6.5.1:	Test Resul	t of Register	(Customer)
--------------	------------	---------------	------------

Test	Test	Input Data	Expected Result	Actual	Status
Case	Scenario			Result	
ID					
TC1	Missing	{'username': ", 'name':	Error message	Error	Pass
_1	Usernam	'Roslan Huzaimy', 'email':	indicating that the	message	
	e	'roslan@gmail.com',	username field is	displayed	
	MALAYS	'phone': '1234567859',	required.	correctly,	
TH		'password':		registratio	
KN		'cc079201c0405996aca524		n did not	
Ħ		961b6e17de', 'address':		proceed.	
FIG		'No.33, Lorong Taman			
43	1/NO	Ayer Keroh Jaya, Melaka'}			
1	Missing	{'username': 'Roslan'.	Error	Error	Pass
	Name	'name': ". 'email':	message	message	
	4*	'roslan@gmail.com'.	indicating	displayed	
UNI	VERSI	'phone': '1234567859'.	that the AMEL	correctly,	
		'password':	name	registratio	
		'cc079201c0405996aca52	field is	n did not	
		4961b6e17de', 'address':	required.	proceed.	
		'No.33, Lorong Taman			
		Ayer Keroh Jaya, Melaka'}			
	Invalid	{'username': 'Roslan',	Error message	Error	Pass
	Email	'name': 'Roslan Huzaimy',	indicating that the	message	
	Format	'email': 'roslan.com',	email format is	displayed	
		'phone': '1234567859',	invalid.	correctly,	
		'password':		registratio	
		'cc079201c0405996aca524		n did not	
		961b6e17de', 'address':		proceed.	
		'No.33, Lorong Taman Ayer			

	Keloli Jaya,	wielaka }					
Valid	{'username':	: 'Roslan',	User	should	be	User	Pass
Registrati	'name': 'Ro	slan Huzaimy',	succes	sfully		registered	
on Data	'email':		registe	ered, and	a	successful	
MALAYS	'roslan@gm	ail.com',	confir	mation		ly,	
	'phone':	'1234567859',	messa	ge should	be	confirmati	
	'password':		sent.			on	
	'cc079201c0)405996aca524				message	
	961b6e17de	', 'address':				sent.	
1/10	'No.33, Loro	ong Taman Ayer					
(Keroh Jaya,	Melaka'}				•	
	Valid Registrati on Data	Valid {'username': Registrati 'name': 'Ro on Data 'email': 'roslan@gm 'phone': 'password': 'cc079201c0 961b6e17de 'No.33, Loro Keroh Jaya,	Valid {'username': 'Roslan', Registrati on Data 'email': 'roslan@gmail.com', 'phone': '1234567859', 'password': 'cc079201c0405996aca524 961b6e17de', 'address': 'No.33, Lorong Taman Ayer Keroh Jaya, Melaka'}	Valid{'username':'Roslan',UserRegistrati'name':'Roslan Huzaimy',succeson Data'email':register'roslan@gmail.com',confirm'phone':'1234567859',messa'password':sent.'cc079201c0405996aca524961b6e17de','address':'No.33, Lorong Taman AyerKeroh Jaya, Melaka'}	Valid{'username':'Roslan',User shouldRegistrati'name':'Roslan Huzaimy',successfullyon Data'email':registered, and'roslan@gmail.com','roslan@gmail.com',confirmation'phone':'1234567859',message should'password':'sent.sent.'cc079201c0405996aca524961b6e17de','address':'No.33, Lorong Taman AyerKeroh Jaya, Melaka'}	Valid{'username': 'Roslan', 'name': 'Roslan Huzaimy', successfully registered, and a confirmation 'ponne': '1234567859', 'password': 'password': 'cc079201c0405996aca524 961b6e17de', 'address': 'No.33, Lorong Taman Ayer Keroh Jaya, Melaka'}User should be sent.	Valid{'username': 'Roslan', User should beUserRegistrati'name': 'Roslan Huzaimy', successfullyregisteredon Data'email': 'roslan@gmail.com', 'roslan@gmail.com', 'phone': '1234567859', message should beconfirmation'possword': 'password': 'password': 'password': 'roslan@gmain.com', 'r

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	Test	Test	Input Data	Expected	Actual	Stat
	Case	Scenario		Result	Result	us
	ID					
	TC2	Missing	{'username': ", 'password':	Error message	Error	Pass
	_1	Usernam	'cc079201c0405996aca524961b	indicating that	message	
		e	6e17de'}	the username	displayed	
		LAYS/A		field is	correctly,	
	AL M		MA	required.	login did	
N.			PX		not	
TEK					proceed.	
11		Missing	{'username': 'Roslan'	Error	Error	Pass
	Seran	Passwor	'password': "}	messa	message	
		d	Fine (ge	displayed	
5	M	hun	ا تنکنک ما	indica	correctly,	
		** **		ting	login did	
J		ERSITI	TEKNIKAL MALAYS	that	not	
				the	proceed.	
				passw		
				ord		
				field		
				is		
				requir		
				ed.		
		Invalid	{'username': 'ruslan', 'password':	Error message	Error	Pass
		Usernam	'cc079201c0405996aca524961b	indicating that	message	
		e	6e17de'}	the username	displayed	
				does not exist.	correctly,	
					login did	
					not	
					proceed.	

Table 6.5.2: Test Result of Login (Customer)

Valid	{'username': 'Roslan', 'password':	User should be	User	Pass
Credenti	'cc079201c0405996aca524961b	successfully	successfu	
als	6e17de'}	logged in, and	lly	
		a session	logged	
		should be	in,	
		created.	session	
			created,	
			and user	
			redirecte	
			d to the	
ALAYSIA	14.		dashboar	
	ET P		d.	
	Valid Credenti als	Valid {'username': 'Roslan', 'password': Credenti 'cc079201c0405996aca524961b als 6e17de'}	Valid{'username': 'Roslan', 'password':User should beCredenti'cc079201c0405996aca524961bsuccessfullyals6e17de'}logged in, andasessionshould becreated.	Valid{'username': 'Roslan', 'password':User should beUserCredenti'cc079201c0405996aca524961bsuccessfullysuccessfulals6e17de'}logged in, andllyasessionloggedshould bein,created.sessioncreated.created.created,and userredirected to thecreated.created.dashboarcreated.created.d.

Table 6.5.3: Test Result of Reset Password (Customer)

	Test	Test	Input Data	Expected Result	Actual	Statu
	Case	Scenario	کنیکل	ۈىرسىيتى يىغ	Result	S
	ID					
J	TC3_	Missing	{'email': "}	Error message	Error	Pass
	1	Email		indicating that the	message	
				email field is	displayed	
				required.	correctly,	
					password	
					reset did	
					not	
					proceed.	
		Invalid	{'email':	Error	Error	Pass
		Email	'Roslan.com'}	message	message	
		Format	,	indicatin	displayed	
				g that the	correctly,	
				email	password	
				format is	reset did	

				invalid.	not	
					proceed.	
		Email Not	{'email':	Error message	Error	Pass
		Registere	'roslan@hotmail.com'	indicating that the	message	
		d	}	email is not	displayed	
				registered.	correctly,	
					password	
					reset did	
					not	
	MA	LAYSIA			proceed.	
110		Valid	{'email':	A reset link	Reset link	Pass
EKA		Email	'roslan@gmail.com'}	should be sent to	successfull	
F /				the provided	y sent to the	
F.	S.			email.	provided	
	SAIN	n .			email, and a	
6	61		10.1		success	
-	مرد	unite 		ومرسيبي ي	message	
				*	was	
J	NIVE	K2111	EKNIKAL MAL	AYSIA MEL	displayed.	

Table 6.5.4: Test Result of Order Product (Customer)

Test Case	Test	Input Data	Expected	Actual	Status
ID	Scenario		Result	Result	
TC4_1	Valid	{'co_id': '24',	The system	Items added	Pass
	Product	'c_id': '112',	should	to the cart	
	Selection	'name': 'Coklat	correctly add	successfully,	
		B40 Coklat',	items to the	total	
		'quantity': '2',	cart and	calculated	
		'price': '14', 'size':	display an	accurately,	
		'medium',	accurate order	and order	

			'status': 'in	summary.	summary	
			process', 'date':		displayed	
			'24/1/2023		correctly.	
			11:14',			
			'order_prepare':			
			'in process',			
			'delivery_option':			
			'pickup',			
			'order_time':			
			'24/1/2023			
	MALAY	SIAN	11:14',			
11.		in P	'totalamount':			
EKA		KA	'28', 'grandtotal':			
F	E		'28', 'orderID':			
K.	S.		'ORDER-			
	SAIN N		663474',			
6			'payment_id': '9',		1	
	سا مالال	ڪل مليه	'v_id': '21', 'p_id':	رسيني ب	اويو	
_			'101'}	*		
J	NIVERS	Invalid	{'co_id': '24',	Error message	Error	Pass
		Product ID	'c_id': '112',	indicating that	message	
			'name': 'Coklat	the product	displayed	
			B40 Coklat',	does not exist.	correctly,	
			'quantity': '1',		product was	
			'price': '14', 'size':		not added to	
			'medium',		the cart.	
			'status': 'in			
			process', 'date':			
			'24/1/2023			
			11:14',			
			'order_prepare':			
			'in process',			
			'delivery_option':			

1				-
			'pickup',	
			'order_time':	
			'24/1/2023	
			11:14',	
			'totalamount':	
			'14', 'grandtotal':	
			'14', 'orderID':	
			'ORDER-	
			663474',	
			'payment_id': '9',	
	MALAY	SIA NA	'v_id': '21', 'p_id':	
-	A PAL	in P	'999'}	
KN		Expired	{'co_id': '24', Error message Error	Pass
F		Product	'c_id': '112', indicating that message	
14	S		'name': 'Coklat the product is displayed	
	V JAINO		B40 Coklat', expired. correctly,	
			'quantity': '1', product wa	as
-	سا ملال	عل مليه	'price': '14', 'size': not added	to
			'medium', the cart.	
J	NIVERS	TI TEKN	'status':- MA'in AYSIA MELAKA	
			process', 'date':	
			'24/1/2023	
			11:14',	
			'order_prepare':	
			'in process',	
			'delivery_option':	
			'pickup',	
			'order_time':	
			'24/1/2023	
			11:14',	
			'totalamount':	
			'14', 'grandtotal':	
			'14', 'orderID':	

	'ORDER-		
	663474',		
	'payment_id': '9',		
	'v_id': '21', 'p_id':		
	'102'}		

Table 6.5.5: Test Result of Delivery Method (Customer)

	Test Case	Test	Input Data	Expected Result	Actual	Status
	ID	Scenario			Result	
N.	TC5_1	Valid	{'delivery_option':	The system	Delivery	Pass
TEK		Delivery	'pickup'}	should correctly	option	
11		Option		store the delivery	stored	
	Se al			option and	successfully,	
	1/NN			redirect to the	redirected to	
5	J all	allo	GiG	checkout page.	the checkout	
		(page.	
U	NIVER	Invalid	{'delivery_option':	Error	Error	Pass
		Delivery	'invalid_option'}	message	message	
		Option	- I <i>)</i>	indicating	displayed	
				that the	correctly,	
				delivery	and the	
				option is	delivery	
				invalid.	option was	
					not stored.	

Table 6.5.6: Test Result of Choose Payment Method (Customer)

	Test Case	Test	Input Data	Expected	Actual Result	Status
	ID	Scenario		Result		
	TC6_1	Valid	{'payment_method':	The system	Payment	Pass
		Cash	'cash'}	should	processed	
		Payment		correctly	successfully,	
				process the	order status	
	MALA	YSIA		payment and	updated, user	
	AL MI	MA		update the	redirected to	
SNI.				order status.	your_orders.php.	
TE	TC6_2	Invalid	{'payment_method':	Error message	Error message	Pass
12		Card	'card',	indicating that	displayed	
	54.47	Details	'card_number':	the card	correctly,	
	N/NN	~	'1234 5678 9012	details are	payment was not	
6	با ملا	alu	3456', 'expiry_date':	invalid or	processed, and	
	**	('01/20', 'cvv': '123'}	expired.	order status was	
J	NIVER	SITI TE	KNIKAL MAI	AYSIA M	not updated.	

Table 6.5.7: Test Result of Track Order Status (Customer)

Test Case	Test	Input Data	Expected Result	Actual	Status
ID	Scenario			Result	
TC7_1	Valid	{'orderID':	The system	Order	Pass
	Order ID	'ORDER-	should correctly	details	
		478058'}	display the order	displayed	
			details and allow	correctly,	
			cancellation if	and	
			applicable.	cancellation	
				option	
				available if	
				applicable.	

TC7_2	Invalid Order ID	{'orderID': 'ORDER- 3333333'}	Error message indicating that the order ID does not exist.	Error message displayed correctly, no order details shown, and no	Pass
MALA	SIAMA		exist.	no cancellation option available.	

Table 6.5.8: Test Result of View and Download Receipt (Customer)

	Test Case	Test	Input Data	Expected Result	Actual	Status
	ID	Scenario		A.9	Result	
9	TC8_1	Valid	{'orderID':	The system	Receipt	Pass
	44	Order ID	'ORDER-	should correctly	details	
J	NIVERS	(View)	(478058'}	generate and	displayed	
				display the receipt	correctly	
				details.	with all	
					relevant	
					information.	
		Invalid	{'orderID':	Error	Error	Pass
		Order ID	'ORDER-	message	message	
		(View)	333333'}	indicating	displayed	
			,	that the	correctly,	
				order ID	no receipt	
				does not	details	
				exist.	shown.	

TC8_2	Valid	{'orderID':	The system should	PDF receipt	Pass
	Order ID	'ORDER-	correctly generate	generated	
	(PDF)	478058'}	a PDF receipt with	and	
			all relevant order	downloaded	
			details.	successfully	
				with all	
				correct	
				details.	
	Invalid	{'orderID':	Error message	Error	Pass
	Order ID	'ORDER-	indicating that the	message	
MALA	(PDF)	333333'}	order ID does not	displayed	
A Chi	in p		exist, and no PDF	correctly,	
	XA		should be	no PDF	
			generated.	generated.	
t o					

Table 6.5.9: Test Result of Update Profile (Customer)

	:DSIT	<u>I TEKNIKAI MAI AVSI</u>	AMELA	KΔ	
Test	Test	Input Data	Expected	Actual	Statu
Case	Scenari		Result	Result	S
ID	0				
TC9_	Valid	{'username': 'Roslan', 'name':	User's	Profile	Pass
1	Addres	'Roslan Huzaimy', 'email':	profile	updated	
	S	'roslan@gmail.com', 'phone':	should be	successfull	
		'1234567859', 'password':	successful	y, valid	
		'cc079201c0405996aca524961b6e1	ly updated	address	
		7de', 'address': 'No.33, Lorong	with the	accepted,	
		Taman Ayer Keroh Jaya, Melaka'}	valid	and	
			address.	success	
				message	
				displayed.	

Invalid	{'username': 'Roslan', 'name':	Error	Error	Pass
Addres	'Roslan Huzaimy', 'email':	message	message	
S	'roslan@gmail.com', 'phone':	indicating	displayed	
	'1234567859', 'password':	that the	correctly,	
	'cc079201c0405996aca524961b6e	address is	profile not	
	17de', 'address': '123 Invalid	invalid.	updated	
	Address'}		due to	
			invalid	
			address.	

Table	e 6.5.10:	Test Re	sult of Lo	gin (Ven	dor)
Þ					

Test	Test	Input Data	Expected Result	Actual Result	Status
Case	Scenario				
ID					
TC10	Missing	{'username': ",	Error message	Error message	Pass
_1	Username	'password':	indicating that the	displayed	
	60 60	'cc079201c040599	username field is	correctly,	
UNIV	ERSITI	6aca524961b6e17d	required.	login did not	
		e'}		proceed.	
	Missing	{'username':	Error	Error message	Pass
	Password	Password 'faezah',	message	displayed	
			indicating	correctly,	
		1 ,	that the	login did not	
			password	proceed.	
			field is		
			required.		

	Invalid	{'username':	Error message	Error message Pass
	Username	'fazah', 'password':	indicating that the	displayed
		'cc079201c040599	username does not	correctly,
		6aca524961b6e17d	exist.	login did not
		e'}		proceed.
	Valid	{'username':	Vendor should be	Vendor logged Pass
	Credentials	'faezah',	successfully	in
		'password':	logged in, session	successfully,
	MALAYSIA	'cc079201c040599	should be created,	session
TH		6aca524961b6e17d	and the user	created, and
KN		e'}	should be	redirected to
TE			redirected to the	dashboard.php
111S			dashboard.	.'/

Table 6.5.11: Test Result of View Sales on Dashboard

(Vendor) AL MALAYSIA MELAKA

Test Case	Test	Input Data	Expected Result	Actual	Status
ID	Scenario			Result	
TC11_1	Valid	{'v_id': '10'}	The system	Dashboard	Pass
	Vendor ID		should correctly	displayed	
			retrieve and	all	
			display all	required	
			required data on	data	
			the vendor's	correctly,	
			dashboard.	including	
				total	
				products,	
				inventory,	
				sales, and	

				top-selling	
				products.	
	Invalid	{'v_id'· '00'}	Error	Error	Pass
	Vendor ID	(v_ld: 00)	message	message	
			indicating	displayed	
			that the	correctly,	
			vendor	no data	
			ID does	retrieved	
MALAY	SIA		not exist.	or	
A. P.	in the			displayed	
	KA			on the	
				dashboard.	
F					

 Table 6.5.12: Test Result of Update Profile (Vendor)

		ىتى تىكنىكل ملىس			
Test	Test	Input Data	Expected	Actual	Status
Case ID	Scenario	ITI TEKNIKAL MALAYSIA	Result	Result	
TC12_1	Valid	{'v_id': 10, 'name': 'Nur Faizah', 'icnum':	The	Profile	Pass
	Profile	'870612000000', 'phone': '01128364927',	system	updated	
	Update	'email': 'fiyahx12@gmail.com', 'gender':	should	successfully,	
		'Female', 'address': 'No.10 , Jalan Tasik	correctly	success	
		Utama 36 , Taman Tasik Utama Ayer	update	message	
		Keroh', 'vaccine': 'Yes', 'brandname':	the	displayed.	
		'Faezah Bakery', 'image':	vendor's		
		'6680cf9bb3691.jpg', 'date': '19/6/2024	profile		
		12:18', 'username': 'faezah', 'password':	and		
		'cc079201c0405996aca524961b6e17de'}	display a		
			success		
			message.		

	Invalid	{'v_id': 10, 'name': 'Nur Faizah', 'icnum':	Error	Error	Pass
	Email	'870612000000', 'phone': '01128364927',	message	message	
	Format	'email': 'fiyahx12@gmail', 'gender':	indicating	displayed	
		'Female', 'address': 'No.10 , Jalan Tasik	that the	correctly,	
		Utama 36, Taman Tasik Utama Ayer	email	profile not	
		Keroh', 'vaccine': 'Yes', 'brandname':	format is	updated.	
		'Faezah Bakery', 'image':	invalid.		
		'6680cf9bb3691.jpg', 'date': '19/6/2024			
		12:18', 'username': 'faezah', 'password':			
		'cc079201c0405996aca524961b6e17de'}			
	Missing	{'v_id': 10, 'name': 'Nur Faizah', 'icnum':	Error	Error	Pass
14.9	Required	'870612000000', 'phone': '01128364927',	message	message	
EKN	Fields	'email': ", 'gender': 'Female', 'address':	indicating	displayed	
F		'No.10 , Jalan Tasik Utama 36 , Taman	that	correctly,	
TIS		Tasik Utama Ayer Keroh', 'vaccine':	required	profile not	
	31/NO	'Yes', 'brandname': 'Faezah Bakery',	fields are	updated.	
1		'image': '6680cf9bb3691.jpg', 'date':	missing.	•	
	يا ملا	'19/6/2024 12:18', 'username': 'faezah',	ومرس	اود	
	••	'password':			
UN	IVERS	'cc079201c0405996aca524961b6e17de'}		KA	

	Test	Test	Input Data	Expected Result	Actual	Status
	Case ID	Scenario			Result	
ĺ	TC13_1	Valid	{'p_id': 1, 'v_id': 10,	The system	Product	Pass
		Product	'name': 'Kek Pandan	should correctly	added	
		Data	Cheese', 'description':	validate all inputs,	successfully,	
			'Gula, Telur, Ovelatte,	handle image	inputs	
			Minyak Masak,	uploads, and store	validated,	
			Pewarna Hijau, Perisa	the product	image	
	MAL	AYSIA	Pandan, Tepung	details in the	uploaded,	
1			Gandum, Baking	database.	and data	
LΝΛ			Powder, Cream		stored in the	
-			Cheese Tatura, Susu		database.	
Y	S.		Cair, Susu Pekat			
	NIVE S		Manis', 'producedate':			
4			'20/8/2024',		•	
) مالال	l	'expirydate':	یر سینی بیغ	اويو	
			'30/8/2024', 'img':	••		
	NIVER	SITIT	'6680c26209b64.jpeg',	AYSIA MEL	AKA	
			'flavour': 'Pandan',			
			'date': '30/6/2024',			
			'category_id': 2,			
			'img_blob': '[BLOB -			
			7.5 KiB]'}			
		Invalid	{'p_id': 1, 'v_id': 10,	Error	Error	Pass
		Image	'name': 'Kek Pandan	message	message	
		File	Cheese', 'description':	indicating	displayed	
		Туре	'Gula, Telur,	that the	correctly,	
			Ovelatte, Minyak	image	product not	
			Masak, Pewarna	file type	added due to	
			Hijau, Perisa Pandan,	is invalid.	invalid	
			Tepung Gandum,		image file	

Table 6.5.13: Test Result of Add Product (Vendor)

		Baking Powder,	type.	
		Cream Cheese		
		Tatura, Susu Cair,		
		Susu Pekat Manis',		
		'producedate':		
		'20/8/2024',		
		'expirydate':		
		'30/8/2024', 'img':		
		'invalid_file.txt',		
		'flavour': 'Pandan',		
MA	LAYSIA	'date': '30/6/2024',		
A Pri		'category_id': 2,		
		'img_blob': '[BLOB -		
		7.5 KiB]'}		
1-0				

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Test	Test	Input Data	Expected Result	Actual	Status
Case I	D Scenario			Result	
TC13_	1 Valid	{'p_id': 1, 'v_id': 10,	The system	Product	Pass
	Product	'name': 'Kek Pandan	should correctly	added	
	Data	Cheese', 'description':	validate all inputs,	successfully,	
		'Gula, Telur, Ovelatte,	handle image	inputs	
MA	LAYSIA	Minyak Masak,	uploads, and store	validated,	
L.P.		Pewarna Hijau, Perisa	the product	image	
		Pandan, Tepung	details in the	uploaded,	
		Gandum, Baking	database.	and data	
F.C.		Powder, Cream		stored in the	
431/A		Cheese Tatura, Susu		database.	
1	(Cair, Susu Pekat			
ملال	hund	Manis', 'producedate':		اوىبۇ	
	00 00	'20/8/2024',			
NIVE	RSITI T	'expirydate':		AKA	
		'30/8/2024', 'img':			
		'6680c26209b64.jpeg',			
		'flavour': 'Pandan',			
		'date': '30/6/2024',			
		'category_id': 2,			
		'img_blob': '[BLOB -			
		7.5 KiB]'}			
	Invalid	{'p id': 1, 'v id': 10	Error	Error	Pass
	Image	'name': 'Kek Pandan	message	message	
	File	Cheese', 'description':	indicating	displayed	
	Туре	'Gula. Telur	that the	correctly,	
		Ovelatte. Minvak	image	product not	
		Masak. Pewarna	file type	added due to	
		Traban, rowarna			

Table 6.5.14: Test Result of Update Product (Vendor)

			Hijau, Perisa Pandan,	is invalid.	invalid
			Tepung Gandum,		image file
			Baking Powder,		type.
			Cream Cheese		
			Tatura, Susu Cair,		
			Susu Pekat Manis',		
			'producedate':		
			'20/8/2024',		
			'expirydate':		
			'30/8/2024', 'img':		
	MAL	AYSIA	'invalid_file.txt',		
4	P.		'flavour': 'Pandan',		
N N			'date': '30/6/2024',		
F			'category_id': 2,		
F1.	0		'img_blob': '[BLOB -		
	V31/NO		7.5 KiB]'}		
	1				

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	Test	Test	Input Data	Expected Result	Actual Result	Status
	Case ID	Scenario				
	TC15_1	Valid	{'p_id': '1'}	The system	Product deleted	Pass
		Product		should correctly	successfully,	
		ID		delete the product	success message	
				and provide a	displayed, and	
				success message.	user redirected to	
	MALA	YSIA			all_product.php	
	AL IN	ME			with	
CN1.			PK		delete_success=1.	
A E F		Invalid	{'p_id': '0'}	Error	Error message	Pass
14		Product		message	displayed	
	C LE L	ID		indicating	correctly, no	
	I/Nn	-		that the	product deleted,	
5	با ملا	ملس	Gié	product	and appropriate	
		40	0 ·	ID does	feedback	
J	NIVER	SITI TI	EKNIKAL I	not exist.	provided to the	
					user.	

Table 6.5.15: Test Result of Delete Product (Vendor)	
--	--

	Test Case	Test	Input Data	Expected Result	Actual	Status
	ID	Scenario			Result	
	TC16_1	Valid	{'v_id': '1'}	The system	Notifications	Pass
		Vendor		should correctly	for low	
		ID		fetch and display	stock and	
				notifications for	expired	
				low stock and	products	
	MALA	ISIA MA		expired products.	fetched and	
110	E.	RI-A			displayed	
ΕKΛ		A A A A A A A A A A A A A A A A A A A			correctly,	
					including	
F	S.				notification	
	31IND				count in the	
6	61 ((bell icon.	
	با مارد	Invalid	{'v_id': '0'}	Error	Error	Pass
		Vendor		message	message	
	VIVERS	ID	KNIKAL MA	indicating	displayed	
				that the	correctly, no	
				vendor	notifications	
				ID does	fetched or	
				not exist.	displayed.	

Table 6.5.16: Test Result of Receive Notification for LowStock & Expired Products (Vendor)

Table 6.5.17: Test Result of Receive Request from Admin (Vendor)

	Test Case	Test	Input Data	Expected Result	Actual	Status
	ID	Scenario			Result	
	TC17_1	Valid	{'name': 'Kek	The system	Request	Pass
		Product	Pandan Cheese',	should correctly	processed	
		and	'vendor_name':	process the	successfully,	
		Vendor	'Nur Faezah',	request, fetch the	correct	
		Details	'brandname':	correct product	details	
	MALA	SIA	'Faezah Bakery'}	and vendor	fetched, and	
11		IT A		details, and send	email sent to	
ΓKΛ		KA		an email to the	the vendor.	
- /				vendor.		
r.	S.	Invalid	{'name': 'Kek	Error	Error	Pass
	31/Nn	Product	Pandan',	message	message	
6		Name	'vendor name':	indicating	displayed	
	با مارد	ل مدیب	'Nur Faezah',	that the	correctly,	
			'brandname':	product	request not	
	NIVERS		'Faezah	does not	processed	
			Bakery'}	exist.	due to	
					invalid	
					product	
					name.	

Test	Test	Input Data	Expected Result	Actual Result	Status
Case ID	Scenario				
TC18_	Missing	{'username': ",	Error message	Error message	Pass
1	Username	'password':	indicating that	displayed	
		'cc079201c0405996	the username	correctly, login	
		aca524961b6e17de'}	field is required.	did not proceed.	
	Missing	{'username': 'ccbd',	Error message	Error message	Pass
	Password	'password': "}	indicating that	displayed	
. 9		Min	the password	correctly, login	
CNIA		AK	field is required.	did not proceed.	
TEA	•	P			
Ē	Invalid	{'username':	Error message	Error message	Pass
5	Username	'invalidadmin',	indicating that	displayed	
	NNN -	'password':	the username	correctly, login	
5		'cc079201c0405996	does not exist.	did not proceed.	
	••	aca524961b6e17de'}	• • •		
UN	IVERSI	TI TEKNIKAL	MALAYSIA	MELAKA	
	Valid	{'username': 'ccbd',	Admin should be	Admin logged in	Pass
	Credentials	'password':	successfully	successfully,	
		'cc079201c0405996	logged in, session	session created,	
		aca524961b6e17de'}	should be	and user	
			created, and the	redirected to	
			user should be	dashboard.php.	
			redirected to the		
			dashboard.		

Table 6.5.18: Test Result of Login (Admin)
Table 6.5.19: Test Result of View Dashboard Data (Admin)

	Test Case	Test	Input Data	Expected	Actual	Status
	ID	Scenario		Result	Result	
	TC19_1	Valid	{'adm_id': '1'}	The system	Dashboard	Pass
		Admin ID		should	displayed	
				correctly	all	
				retrieve and	required	
	ALAY	SIA		display all	data	
	Pt Mir	MA		required data	correctly,	
NI		AX		on the admin's	including	
TEK	-	P		dashboard.	new	
11					vendors,	
	Strain 1				products,	
	NINN -				customers,	
5	Mo Lu	کا ملب		· ·····	orders,	
	*		o ⁶ o ⁶	G. M.	and total	
J	NIVERS		IKAL MALA	YSIA MEL	earnings.	
		Invalid	{'adm_id': '0'}	Error message	Error	Pass
		Admin ID		indicating that	message	
				the admin ID	displayed	
				does not exist.	correctly,	
					no data	
					retrieved	
					or	
					displayed	
					on the	
					dashboard.	

Test	Test	Input Data	Expected	Actual	Status
Case ID	Scenario		Result	Result	
TC20_1	Valid	{'v_id': 12, 'name': 'Nur	The system	Vendor	Pass
	Vendor	Fazilah', 'icnum': '761218-01-	should	added	
	Data	1837', 'phone': '0128472293',	correctly	successfull	
		'email': 'fiyahx12@gmail.com',	validate all	y, inputs	
		'gender': 'Female', 'vaccine':	inputs, handle	validated,	
	ALAYS	'Yes', 'address': 'No.55 , Jalan	file uploads,	file	
R.		Tasik Utama 28 , Taman Tasik	and store the	uploaded,	
LIN A		Utama Ayer Keroh',	vendor details	and data	
TEK	-	'brandname': 'Fazilah Bakery',	in the	stored in	
Ē		'image': '667993075cef7.jpg',	database.	the	
52.3		'date': '24/6/2024 23:38',		database.	
	INN	'username': 'fazilah', 'password':			
5/1		'cc079201c0405996aca524961b	in the second	ial	
	4.	6e17de'}	G. M		
UNIV	Invalid	{'v_id': 12, 'name': 'Nur	Error message	Error	Pass
	IC	Fazilah', 'icnum': '1234', 'phone':	indicating that	message	
	Format	'0128472293', 'email':	the IC number	displayed	
		'fiyahx12@gmail.com', 'gender':	is in an	correctly,	
		'Female', 'vaccine': 'Yes',	incorrect	vendor not	
		'address': 'No.55 , Jalan Tasik	format.	added due	
		Utama 28 , Taman Tasik Utama		to invalid	
		Ayer Keroh', 'brandname':		IC number	
		'Fazilah Bakery', 'image':		format.	
		'667993075cef7.jpg', 'date':			
		'24/6/2024 23:38', 'username':			
		'fazilah', 'password':			
		'cc079201c0405996aca524961b			
		6e17de'}			

Table 6.5.20: Test Result of Add Vendor (Admin)

Test	Test	Input Data	Expected	Actual	Status
Case	e Scenari		Result	Result	
ID	0				
TC2	1_ Valid	{'v_id': 12, 'name': 'Nur Fazilah	The system	Vendor	Pass
1	Vendor	Updated', 'icnum':	should	details	
	Update	'761218011837', 'phone':	correctly	updated	
		'0128472293', 'email':	update the	successfull	
	AVer	'fiyahx12_updated@gmail.com'	vendor	y, inputs	
	A PLAN SIA	, 'gender': 'Female', 'vaccine':	details in	validated,	
		'Yes', 'address': 'No.55, Jalan	the	optional	
		Tasik Utama 28 , Taman Tasik	database	password	
		Utama Ayer Keroh',	and provide	and image	
5.		brandname': Fazilan Bakery	a success	undated	
V.B.V	/wn	Updated, image:	message	and success	
		'date': '24/6/2024 23:38'	message.	massage	
	o Lun	'username': 'fazilah undated'	رستني	displayed	
		'nassword'		displayed.	
NIV	ERSITI	'cc079201c0405996aca524961b	SIA ME	LAKA	
		6e17de'}			
	Missing	{ 'v_id': 12, 'name': ", 'icnum':	Error	Error	Pass
	Require	", 'phone': '0128472293',	message	message	
	d Fields	'email':	indicating	displayed	
		'vendorC@example.com',	that	correctly,	
		'gender': ", 'vaccine': 'Yes',	required	vendor	
		'address': '789 Road',	fields are	details not	
		'brandname': ", 'image':	missing.	updated	
		'vendorC.jpg', 'date':		due to	
		'24/6/2024 23:38',		missing	
		'username': ", 'password':		required	
		'VendorPassword123'}		fields.	

Table 6.5.21: Test Result of Update Vendor (Admin)

	Test Case	Test	Input Data	Expected	Actual	Status
	ID	Scenario		Result	Result	
	TC22_1	Valid	{'v_id': '1'}	The system	Vendor	Pass
		Vendor ID		should	deleted	
				correctly	successfully,	
				delete the	success	
				vendor and	message	
	MALAY	SIA		provide a	displayed.	
	AL MI	MA		success		
(NI)		AKI		message.		
L F	•	Invalid	{'v_id': '0'}	Error message	Error	Pass
12		Vendor ID		indicating that	message	
	S. J.			the vendor ID	displayed	
	NNN -			does not exist.	correctly,	
5	Mo Lu	ulo le	í Si	i in a	vendor not	
	*	. 0	4 ⁰		found and	
J	NIVERS	ITI TEKI	NIKAL MAL	AYSIA ME	no deletion occurred.	

Table 6.5.22: Test Result of Delete Vendor (Admin)

Table 6.5.23: Test Result of Update Order Status (Admin)

	Test Case	Test	Input Data	Expected	Actual	Status
	ID	Scenario		Result	Result	
	TC23_1	Valid	{'order_id':	The system	The order	Pass
		Order	'ORDER-366913',	should	status was	
		Update	'status': 'closed',	correctly	updated to	
			'remark': 'Order	update the	"closed,"	
			completed	order status to	order	
	MALAY	SIA MA	successfully.'}	"closed," set	preparation	
110		ALL R		order	status was	
EK_{A}		κA		preparation to	set to	
1	L I			"complete,"	"complete,"	
L.	S.			manage	payment	
	31/Nn	-		payment	status	
6	61			status, and	updated to	
	بيا مالاد	س مليه		display a	"success,"	
				success	and a	
J	NIVERS	IIIIEKI		message.	success	
					message	
					was	
					displayed.	
		Invalid	{'order_id': '9999',	The system	An error	Pass
		Order ID	'status': 'closed',	should display	message	
			'remark': 'Order	an error	was	
			completed	message	displayed	
			successfully.'}	indicating the	indicating	
				order ID is not	that the	
				found or	order ID	
				invalid.	"9999" was	
					not found	
					in the	

		system.	

Table 6.5.24: Test Result of View Sales Reports (Admin)

	Test Case	Test	Input Data		Expected	Actual Result	Status
-	ID	Scenario		į,	Result		
KN	TC25_1	Valid Year	{'year':		The system	The system	Pass
TE	-	and Month	'2023'}		should retrieve	successfully	
141					and display	retrieved and	
	E ALA				accurate sales	displayed sales	
					data for the	data for the	
1	سا ملال	کا رملیہ	- Ail		selected year,	year 2023.	
	••	. 0	6 ⁴		including the	Total vendors,	
U	NIVERS	TI TEKN	IIKAL N	14	total number of	products, and	
					vendors,	customers	
					products, and	were	
					customers, as	accurately	
					well as	shown.	
					monthly	Monthly orders	
					orders,	and earnings	
					earnings, order	were correctly	
					statuses, and	calculated and	
					payment	represented in	
					methods. Data	bar and line	
					should be	charts,	
					visually	respectively.	
					represented	Order statuses	
					using Chart.js	and payment	

ĺ				with error	methods were	
				handling and	visualized in	
				Bootstrap and	nie charts	
				iQuery	Bootstran and	
				integration	iOuery were	
				integration.	correctly	
					included and	
					arrea has dlin a	
					error nandling	
					was functional.	
	NIAY	Invalid	{'year':	The system	The system	Pass
	WALAT	Year	'9999'}	should display	displayed an	
11.		I'F R		an error	error message	
EKA		Â		message	indicating that	
H	E			indicating that	the year 9999	
1.	0			the year is	is invalid and	
	V31/NO			invalid or no	no data is	
				for the selected	available.	
2	سا ملال	کل ملب	- Sic	for the selected	اوىبۇم	
	6 ⁶	No Doto for	(huo anti-	The system	The system	Daga
J	NIVERS	No Data for		The system	The system	Pass
		Selected	2022*}	should indicate	displayed a	
		Year		that no data is	message	
				available for	indicating that	
				the selected	no data is	
				year and	available for	
				handle the	the year 2022.	
				scenario	The dashboard	
				gracefully.	handled the	
					scenario	
					gracefully	
					without	
					crashing.	
					crashing.	

Test Case	Test	Input Data	Expected	Actual Result	Status
ID	Scenario		Result		
TC25_1	Valid	{'month':	The system	The system	Pass
	Month	'2024-08'}	should retrieve	successfully	
			and display	displayed	
			accurate	accurate	
			product sales	product sales	
MALAY	SIA		data for	data for	
Pt M	MA		August 2024,	August 2024.	
	PX		including	Pagination and	
	P		proper	sorting were	
TE E			pagination,	correct. Top 10	
Star			sorting, and	items were	
NN -			chart	visualized	
سا ملا	کا ملیہ	-	visualization	using Google	
**	. 0	4 ⁴	for the top 10	Charts with	
JNIVERS		IIKAL MA	most	accurate	
			purchased	categorization.	
			items.		
	Invalid	{'month':	The system	The system	Pass
	Month	'2024-13'}	should display	displayed an	
			an error	error message	
			message	indicating that	
			indicating that	"2024-13" is	
			the month is	an invalid	
			invalid or no	month.	
			data is		
			available for		
			the selected		
			month.		

Table 6.5.25: Test Result of View Product Sales (Admin)

No I	Data for	{'month':	The system	The system	Pass
Sele	ected	'2023-07'}	should indicate	displayed a	
Mon	nth		that no data is	message	
			available for	indicating that	
			July 2023 and	no data is	
			handle the	available for	
			scenario	July 2023 and	
			gracefully.	handled the	
				situation	
				gracefully.	

Table 6.5.26: Test Result of View Revenue Reports byPayment Method (Admin)

	Test Case	Test	Input Data	Expected	Actual Result	Status
	ID	Scenario	/	Result		
	TC26_1	Valid	{'month':	The system	The system	Pass
		Month and	'January',	should	correctly	
J	NIVERS	Year EK	'year': '2023'}	accurately	calculated and	
				calculate and	displayed the	
				display the	total revenue	
				total revenue	and revenue by	
				and revenue	payment	
				by payment	method for	
				method (Card,	January 2023.	
				Cash, In Store)	Bar and donut	
				for January	charts	
				2023, using	accurately	
				the correct	represented the	
				date range.	revenue data.	
				Visualization		
				should be		

			provided		
			through bar		
			and donut		
			charts.		
	Invalid	{'month':	The system	The system	Pass
	Month	'InvalidMonth',	should display	displayed an	
		'year': '2023'}	an error	error message	
			message	indicating that	
			indicating that	"InvalidMonth"	
			the month is	is not a valid	
MALAY	SIA MA		invalid.	month.	

Table 6.5.27: Test Result of Backup and Recover

Database (Admin)

Test Case	Test	Input Data	Expected	Actual Result	Status
ID	Scenario	<u> .</u> .	Result		
TC24_1	Valid	{}	The system	The system	Pass
	Backup		should	successfully	
INIVERS	and		successfully	created a backup	
	Recovery		create a	of the database,	
			backup of the	saved it with a	
			database, save	timestamped	
			it to a	name in the	
			specified	specified	
			directory, and	directory, and	
			recover the	restored the	
			database from	database from the	
			the latest	latest backup file.	
			backup file.	Success messages	
			Feedback	were displayed,	
			should	and the user was	
			indicate	redirected to the	

ſ			success or	dashboard.	
			failure		
			appropriately.		
	Backup	{invalid	The system	The system	Pass
	Failure	database	should	correctly	
		connection	terminate with	terminated with	
		details}	an error	an error message	
			message if the	when the database	
			database	connection details	
			connection	were invalid.	
	SIA MA		fails.		
11	Recovery	{no backup	The system	The system	Pass
EKA	Failure 🗲	file	should display	displayed an error	
-		available}	an error	message	
1			message if no	indicating that no	
			backup file is	backup file was	
4		/	available for	available for	
_	عل مدینہ		recovery.	recovery.	

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Test Case	Test	Input Data	Expected	Actual Result	Status
ID	Scenario		Result		
TC27_1	Valid Power	{}	The Power BI	The Power BI	Pass
	BI		dashboard link	dashboard link	
	Integration		should be	was correctly	
			correctly	rendered on	
:			rendered on	the admin	
MALAY	SIA MA		the admin	panel and	
A CONTRACTOR	R. P		panel and	redirected to	
	Â		redirect to the	the specified	
E			specified	Power BI	
Te.			Power BI	report URL.	
SAINO	-		report URL.	The report	
641		. /	The report	loaded without	
يبا ملاك	کل ملیہ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	should load	errors and	
			without errors	matched the	
INIVERS	ITI TEKN	IKAL MA	and be	live database	
			accessible only	data. The link	
			to logged-in	was only	
			admin users.	accessible to	
				logged-in	
				admin users.	
	Data	{}	The Power BI	The Power BI	Pass
	Accuracy		dashboard	dashboard	
	Verification		should display	displayed real-	
			accurate real-	time data	
			time data that	accurately,	
			matches the	matching the	
			live database.	live database.	

Table 6.5.28: Test Result of Power BI DashboardIntegration (Admin)

Unauthorized	{non-admin	The Power BI	The Power BI	Pass
Access	user}	dashboard link	dashboard link	
		should not be	was not visible	
		visible or	or accessible	
		accessible to	to non-admin	
		unauthorized	users.	
		users or users		
		without admin		
		privileges.		

6.6 Conclusion

In conclusion, system testing is an important part of Agile development. Agile focuses on frequent testing and feedback to catch errors and defects early. For Sweet Scape Vendor Dessert Management System, white box testing is used to check the internal logic and code. This chapter covers how test cases, test data, and test results are designed and documented to ensure that the software is properly tested in each development cycle.

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CHAPTER 7: PROJECT CONCLUSION

7.1 Introduction

This chapter provides an overall conclusion for Sweet Scape Vendor Dessert Management System (SSVDMS). It includes an analysis of the system's strengths and weaknesses. Additionally, it will propose improvements based on this analysis and outline the contributions of the project.

7.2 Observation Weakness and Strengths

Each system consists of its own strengths and weaknesses. Section 7.2.1 will explain in detail the system strength while 7.2.2 will explain the system weaknesses.

7.2.1 Strength

The strength of the Sweet Scape Vendor Dessert Management System (SSVDMS) is:

I. Improved Sales Overview with Business PowerBI.

The system makes it easy to see sales data using Business PowerBI. Users can access this information from anywhere with an internet connection. The system is designed to be user-friendly, with clear navigation buttons that show their functions. This helps users easily find and understand the sales data, making it simpler to analyze and make decisions.

II. High-Quality Standards Monitoring.

The system requires vendors to provide the production and expiry dates for each product. This ensures that staff have up-to-date information about the product's freshness and shelf life. By having this information readily available, staff can request vendor to check the quality of products before they expire, ensuring that only fresh and high-quality items are provided to customers.

7.2.2 Weaknesses

The weakness of the Sweet Scape Vendor Dessert Management System (SSVDMS) is:

7.2.2.1 Lack of Rating Product after purchase.

The system does not include a feature for customers to rate or leave feedback on products after purchase. This means there is no way to collect customer opinions or reviews on the quality of the products. Without this feedback, it is harder to understand customer satisfaction and make improvements based on their experiences

7.2.2.2 Profit Calculation for Seller

The system currently lacks a feature to calculate the profit for sellers who sell vendor products. Adding a profit calculation function would help sellers understand their earnings by subtracting the cost of products from their selling prices. This enhancement would provide sellers with clear insights into their financial performance, making it easier to manage their business and make informed decisions based on profitability.

7.3 Propositions of Improvement

The following are statements of improvement for Sweet Scape Vendor Dessert Management System based on the strengths and weaknesses above.

7.3.1 Add Rating and Feedback.

Add a feature that lets customers rate and leave feedback on products after they make a purchase. This will help collect customer opinions and understand their satisfaction levels. It will also provide valuable information to improve products based on real customer experiences.

7.3.2 Implement Profit Calculation Feature

Develop a module to automatically calculate and display the profit for each seller by subtracting the cost of goods from the selling price.

7.4 Conclusion

Sweet Scape successfully addresses key challenges in the dessert retail industry. The system helps sellers manage product quality and vendor relationships more effectively. By requiring vendors to input product details and allowing staff to monitor these details, Sweet Scape ensures that only high-quality desserts are offered to customers. The system also improves collaboration between vendors and sellers and provides valuable insights through Power BI reports.

Despite its strengths, there are still some weaknesses in the system that can be improved in the near future, such as adding features for customer feedback and enhancing tracking capabilities. Overall, Sweet Scape meets its objectives of improving quality management, simplifying vendor tasks, and providing useful analytics. It has the potential to significantly benefit sellers, vendors, and customers in the dessert industry. Future developments will focus on adding new features to keep up with industry needs and enhance user satisfaction. In conclusion, this PSM has been successfully completed and fulfilled the requirement for a Bachelor of Computer Science (Database Management).

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APPENDIX A

Figure 4.1.1.2: Admin All Vendor Page

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/E Deshboard	Add Vendor	
TOMERS		
Customers	Vendor Name	IC Number
085		
ndor v		
I Vendors	Phone Number	Email
d Vendor		
crs	Gender	Vaccine
roduct >	Male	Yes
2	Address	Brand Nama
rder	Address	Drama Harrie
ITS .		
sport	Image	Username
roduct Sales	Choose File No file chosen	Enter Username
lew PowerBi	Password	
BASE	Enfer Password	
Backup & Recovery		
	Save Cancel	
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Figure 4.1.1.4 : Admin Update Vendor Page



Figure 4.1.1.6: Admin Update Category Page



Figure 4.1.1.8 : Admin Add Product Page

E	Lindate Deader ()	tender				
Deshboard	update Product to v	vendor				
Customers	Product Name				About	
DORS	Mini Burger Malaysia				Air Suam, Yis Kering, Gula Pasir, Tepung Gandum, Mentega, Susu Pekat Manis, Baking Pov	vder, Baking Soda, Ikan Bilis , Bawang Besar, S
/endor >	Produce Date				Evolut Date	
oucts	06/08/2024				31/08/2024	
roduct >						
IIS	Flavour				Image	
Drder	spicy				Choose rile No tile chosen	
RTS	Select Vendor				Select Vendor	
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	Add Size & Price Save Cancel					
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Figure 4.1.1.10: Admin All Customer Page



Figure 4.1.1.12: Admin All Order Page



Figure 4.1.1.14: Admin Order Update Page

🕙 User Profile - Google Chrome			_	×
Iocalhost/sweetscape/admin/u	ıserprofile.php?OrderID	9=ORDER-478058		ର୍
	aiman darwisy's Profile			
	Registration Date	2024-07-18		
	Name	aiman darwisy		
	Email	fiyahx12@gmail.com		
	Phone	0182638826		
	Address	no.10, jalan tu 37, taman tasik utama, ayer keroh, melaka		
	Status	Active		
		Close		





Figure 4.1.1.16: Admin Report Page



Figure 4.1.1.18: Admin Product Sales (1) Page



Figure 4.1.1.20: Admin Backup Recovery Page

ES F	Request Form - Update Stock - Google Chrome	-		×
i	localhost/sweetscape/admin/send_request.php?name=Mini%20Burger%	620Mal	aysia	Q

Request Form to Update Stock

P	roduct Name:
	Mini Burger Malaysia
V	fendor Name:
	Sofia Ali
В	irand Name:
	Sofia Foods
MALA	Description for Vendor:
	Describe what the vendor should add or update.
L	Send Request
	اونيۇم سىتى تېكنىكل ملىس
	Figure 4.1.1.21: Admin Kequest Form Page

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	合 Home	Name	Status	Date modified	Туре			
	🗾 Gallery	sweetscape_backup_20240823020411	•	23/8/2024 2:04 AM	SQL File	5,159 KB		
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Figure 4.1.1.22: File Backup Page



Figure 4.1.1.24: Vendor Dashboard (2) Page



Figure 4.1.1.26: Vendor Add Product Page

193

BST. 2024			
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	Add Size & Price		
	Save Cancel		
	Fi	gure 4.1.1.27: Vei	ndor Update Product Page
	Fiş	gure 4.1.1.27: Vei	ndor Update Product Page
New Logs BET 2014	Fiş	gure 4.1.1.27: Vei	ndor Update Product Page
Beet Loge BC 204	Fig	gure 4.1.1.27: Vei	ndor Update Product Page
eggi heef HTTTL HT	Fig	gure 4.1.1.27: Vei	ndor Update Product Page
Serribogs IRCDA	Fig Update Vendor Vender Name	gure 4.1.1.27: Vei	ndor Update Product Page
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Pret toge distance of Contraction of Profile	Fig	gure 4.1.1.27: Ver	Ador Update Product Page
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ord ord of hote	Fig	gure 4.1.1.27: Ver	Ador Update Product Page
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ord Frifa	Fig	gure 4.1.1.27: Ver	Ador Update Product Page

Figure 4.1.1.28: Vendor Update Profile Page







Figure 4.1.1.30: Customer Index (1) Page



Figure 4.1.1.32: Customer Index (3) Page

			Home Vendors Profile Login Register	·
	Featured Vendors			
	Faezah Bakery No.10, Jalan Tarik Utama 36, Taman Tarik Utama Ayer Kerch	Fazilah Bakery No.55, Jalan Tasik Utama 20, Taman Tasik Utama Ayer Keroh	ZCafe B-3-1, Taman Emburi Raya, Metaka	
	Acap Cafe No.5, Jelan Keranji 1, Teman Perdana Melaka	Allyah Confectionery No.21, Jalan Melati 1, Taman Melati	(II) Hadi Foods No.32, Julia Anggerik 7, Taman Anggerik	
	Sofia Sweets No.45, Jolan Jati 3, Taman Jati	Mohan Restaurant No 56, Jolan Teratari 2, Taman Teratari	Lina Bakery Nadi7, Jitan Cempilia 4, Taman Cempaka	
	Zainal Food No78, Jalan Kercana 6, Taman Kercana	Farah Delights No.89, Jolan Kasih 1, Taman Kasih	Ishak Cafe No.80, Jaan Burga J, Taman Burga	
	Aida Cuisine No.101, Jalan Wangi 5, Taman Wangi	Halimah Cafe No.112, Jalan Harmoni 2, Taman Harmoni	Rizal Foods No. 121, Jako Damai 6, Taman Damai	
	Maya Bakery No.134, Jalan Setia 4, Taman Setia	Rafiq Cafe No. 145, Jalan Sejahtera 3, Taman Sejahtera	No.154, Jalan Indah 7, Taman Indah	
				÷
T TEKNIG				
	Sofia Sweets No.45, Jatan Jati J, Taman Jati	Mohan Restaurant No.56, Jalar Teratai 2, Taman Teratai	Lina Bakery No.87, Jaino Campala 4, Tanan Cempata	
	Zainal Food No.78. Jalan Kencana G, Taman Kencana	5 Farah Delights No.89, Jalan Kash 1, Taman Kash	Ishak Cafe No 30, Jales Burge 3, Taman Burga	
	Alda Cuisine No 101, Jahan Wengi 5, Tensan Wengi	Halimah Cafe No.112 Izlan Hermoni 2. Taman Hermoni	Rizal Foods No.132, Islan Danie 6, Tanan Danie	
UNIVERSITI TE	Maya Bakery No.134, Jalah Seta 4, Taman Setia	Rafiq Cafe No.145, Jalan Sejahtera 3, Taman Sejahtera	Nora Sweets No.155, Iular India 7, Taman India	
	Imran Bakery No.167, Jalen Merpati 6, Taman Merpati	Sofia Foods No.170, Jelan Selamat 2, Taman Selamat		
1946년 - 1968년 1947년 1947년 - 1968년 1947년 1947년 - 1947년	Payment Options Address	S Addition	al Information and/s of other versions and benefit from having partnered with	
	Phone:	100113430183		

Figure 4.1.1.34: Customer Index (5) Page



Figure 4.1.1.36: Customer Registration Page



Figure 4.1.1.38: Customer Update Profile Page


Figure 4.1.1.40: Customer Product by Category Page



Figure 4.1.1.42: List Order Track Page

	Receipt
	Customer Details Kame Amar Daving Phone Number: 01503126 Address: no 10. Julin 137, Junio Bu dama, ayer kenh, melaka Payment Mone Cach Payment Mone Cach Payment Mone Cach
	Defining Optimiz: Opti
	Ayam Susu Thai Frozen 1 medium Rill30.00 Order Summary Total Quantity: 1 Total Priver RIIS:50
	Thank you for your purchase! We have to serve you again noon.
LISS BALINO	<section-header><section-header><section-header><section-header><section-header><section-header><image/></section-header></section-header></section-header></section-header></section-header></section-header>
Selected	Items Luinh Size snall Quantity: 1 Proc.EM7
	ammary ter JKAL MALAYS AS MELAKA Now RM

Figure 4.1.1.44 : Checkout Payment Method for Delivery

Bill (Cash Payment)								
Item Name	Price	Quantity	Total					
Kek Pandan Cheese	RM 12.00	1	RM 12.00					
Total: RM 12.00 Delivery Charge: RM 5.00 Grand Total: RM 17.00 Confirm								

Figure 4.1.1.45: Bill for Cash Payment Delivery Page



Figure 4.1.1.46 : Bill for Debit/Credit Card Payment Delivery Page



Figure 4.1.1.48 : Insight Vendor on PowerBI



Figure 4.1.1.50 : Insight Product on PowerBI





Figure 4.1.1.52 : Reset Password Customer

Password Reset Request Inbox ×				æ	ß			
Admin SweetScape <sweetscapevendor@gmail.com> to me ▼</sweetscapevendor@gmail.com>	5:16 AM (O minutes ago)	☆	٢	¢	:			
Dear aiman,								
We received a request to reset your password. Click the link below to reset your password:								
http://localhost/sweetscape/reset_password.php?email=fiyahx12%40gmail.com&token=6ac66755f6a3dfdde9b9cee50f4b15ee								
If you did not request this, please ignore this email.								
Thank you.								
← Reply → Forward ④								
Figure 4.1.1.53 : Reset Passwor	d Email							

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