# NEGERI SEMBILAN TOURISM AND HOTEL HALAL MANAGEMENT SYSTEM



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

# NEGERI SEMBILAN TOURISM AND HOTEL HALAL MANAGEMENT SYSTEM



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

#### **DECLARATION**

I hereby declare that this project report entitled

## NEGERI SEMBILAN TOURISM AND HOTEL HALAL MANAGEMENT SYSTEM

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

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I hereby declare that I have read this project report and found this project report is sufficient in term of the scope and quality for the award of Bachelor of [Computer Science (Software Development)] with Honours.

SUPERVISOR	: Santan	Date :
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## **DEDICATION**

To my beloved parents

My mom, Mrs Rusmah binti Lebai Yahya

My dad, Mr Norasikin bin Nordin

To my beloved supervisor, Gs Ts Dr. Safiza Suhana Binti Kamal Baharin

To my beloved evaluator, Mrs Ts Dr. Noraswaliza binti Abdullah

And fellowship friends that give me support and sharing knowledge in order to finish



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Lastly, thanks again to all those involve for helping me throughout in completing my final year project. May Allah bless all of your kindness.

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#### **ABSTRACT**

The "Negeri Sembilan Tourism and Hotel Halal Management System" is an integrated digital platform designed to enhance the tourism experience in Negeri Sembilan, Malaysia. This project addresses the absence of a centralized online resource that consolidates detailed information about tourist attractions and halal-certified accommodations within the state. By creating a user-friendly system, tourists can easily access comprehensive details on various attractions and verify the halal status of hotels, thus streamlining trip planning and ensuring halal compliance. The platform supports multiple user roles, including staff, hotel verifiers, webmasters, Applicants, and tourists, each with specific functionalities to manage and utilize the system efficiently. This initiative aims to boost tourism, support local businesses, and promote cultural exchange by leveraging modern technology to provide a cohesive and seamless user experience.

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#### ABSTRAK

"Sistem Pengurusan Pelancongan dan Hotel Halal Negeri Sembilan" adalah platform digital bersepadu yang direka untuk meningkatkan pengalaman pelancongan di Negeri Sembilan, Malaysia. Projek ini menangani ketiadaan sumber dalam talian yang berpusat yang menggabungkan maklumat terperinci tentang tarikan pelancongan dan penginapan yang disahkan halal dalam negeri ini. Dengan mewujudkan sistem mesra pengguna, pelancong boleh mengakses maklumat komprehensif tentang pelbagai tarikan dan mengesahkan status halal hotel, sekali gus mempermudah perancangan perjalanan dan memastikan pematuhan halal. Platform ini menyokong pelbagai peranan pengguna, termasuk kakitangan, pemeriksa hotel, webmaster, pemilik, dan pelancong, masing-masing dengan fungsi khusus untuk mengurus dan menggunakan sistem dengan cekap. Inisiatif ini bertujuan untuk meningkatkan pelancongan, menyokong perniagaan tempatan, dan mempromosikan pertukaran budaya dengan memanfaatkan teknologi moden untuk menyediakan pengalaman pengguna yang menyeluruh dan lancar.

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# LIST OF ABBREVIATIONS

FYP - Final Year Project



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#### **CHAPTER 1: INTRODUCTION**

## 1.1 Project Background

Negeri Sembilan, a state located in the southwestern part of Peninsular Malaysia, is known for its rich cultural heritage, unique Minangkabau architecture, and a variety of attractive tourist destinations ranging from historical sites to natural landscapes. Despite its wealth of attractions, Negeri Sembilan has not fully capitalized on its tourism potential due to the absence of a centralized online platform that can guide tourists effectively. In an era where digital solutions are pivotal to enhancing tourism experiences, this gap significantly hampers the state's ability to attract and accommodate tourists efficiently.

Tourism plays a critical role in the economic development of any region, contributing to income generation, job creation, and cultural exchange. For Negeri Sembilan, developing a robust digital presence is essential to compete with other Malaysian states that have already embraced technological advancements in promoting their tourism sectors. Currently, tourists seeking information about places to visit in Negeri Sembilan often face difficulties due to the scattered and sometimes outdated information available online. This lack of a cohesive platform results in a fragmented user experience, making it challenging for tourists to plan their trips effectively.

Additionally, for Muslim travelers, the process of finding halal-certified accommodations adds another layer of complexity. Malaysia, being a predominantly Muslim country, places significant importance on halal certification, especially in the hospitality industry. The halal status of hotels is a critical factor for many Muslim tourists when choosing where to stay. However, the current system requires users to visit different websites, such as the official portal of JAKIM (Department of Islamic Development Malaysia), to verify the halal status of hotels. This fragmented approach

not only consumes time but also creates a disjointed user experience, deterring potential tourists from visiting Negeri Sembilan.

Recognizing these challenges, the "Negeri Sembilan Tourism and Hotel Halal Management System" aims to bridge these gaps by creating an integrated, user-friendly platform. This project will provide comprehensive information about tourist attractions in Negeri Sembilan while simultaneously offering a seamless way to verify and book halal-certified hotels. By leveraging modern technology and integrating various data sources, this system aspires to enhance the overall travel planning experience for tourists, making Negeri Sembilan a more appealing destination.

#### 1.2 Problem Statement

The current lack of a unified tourism and hotel management system in Negeri Sembilan presents several challenges:

- Inaccessibility of Information: Tourists have difficulty finding reliable and up-to-date information about the various attractions in Negeri Sembilan due to the absence of a centralized platform.
- Fragmented Halal Certification Data: Travelers seeking halal-certified accommodations must navigate multiple websites, specifically JAKIM Malaysia, to verify the halal status of hotels, leading to an inconvenient and time-consuming process.
- 3. **Lack of Integration**: There is no integration between tourism information and hotel halal certification, which could provide a seamless and efficient planning experience for tourists.

### 1.3 Objective

The primary objective of Negeri Sembilan and Hotel Halal Management System is to address these issues by creating a comprehensive, user-friendly online platform that integrates both tourism and halal hotel certification. The system aims to:

- 1. **Provide a Centralized Tourism Portal**: Offer detailed information on the attractions in Negeri Sembilan, including cultural sites, historical landmarks, natural wonders, and recreational spots.
- 2. **Integrate Halal Hotel Certification**: Allow users to easily identify halal-certified hotels through integration with JAKIM Malaysia's certification data.
- 3. **Enhance User Experience**: Streamline the process of planning a trip by offering a one-stop solution that caters to both tourism information and halal accommodation needs.

# 1.4 Scopes of the Project

#### 1.4.1 Staff

- 1. Superadmin
  - **View Reports**: Access detailed reports of each tour place and hotel, including user reviews, ratings, and booking statistics.
  - Manage Staff: Add, update, and remove staff members and assign roles (Hotel Verifier and Web Master).
  - Manage Applicants: Oversee the registration and profile management of hotel and tour place Applicants.
  - **Profile Management**: Update personal profile information, including contact details and password.

#### 2. Hotel Verifier

- **Verify Hotels**: Review and verify the halal certification of hotels to ensure compliance with halal standards.
- Manage Verification Documents: Approve or reject uploaded halal certification documents provided by hotel Applicants.
- **Profile Management**: Update personal profile information, including contact details and password.

#### 3. Web Master

- **Manage Tour Places**: Verify and approve the insertion of new tour places into the website, ensuring they meet the platform's standards.
- Content Management: Oversee the content related to tour places, ensuring accuracy and relevancy.
- **Profile Management**: Update personal profile information, including contact details and password.

#### 1.4.2 Applicant

- 1. Hotel Applicant
- **Register Hotels**: Submit hotel registration with detailed information, including amenities, contact details, and halal certification documents.
- Profile Management: Update personal and hotel profile information, including contact details and hotel details.
- **View Register Hotel**: The hotel Applicant can view the details list and status of the registered hotel.

### 2. Tour Place Applicant

- **Register Tour Places**: Submit tour place registration with detailed information, including descriptions, images, and contact details.
- Profile Management: Update personal and tour place profile information, including contact details and place details.
- **Manage Content**: Ensure the information about their tour place is accurate, engaging, and up-to-date.

#### 1.4.3 Tourist

- View Tour Places: Browse detailed information about various tour places in Negeri Sembilan, including descriptions, images, operating hours, and contact details.
- Submit Reviews and Ratings: Provide feedback and rate tour places and hotels, helping other tourists make informed decisions.
- **View Halal Hotels**: Search for and view detailed information about halal-certified hotels, including contact details.

### 1.5 Project Significant

The "Negeri Sembilan Tourism and Hotel Halal Management System" represents a significant advancement for various stakeholders, including tourists, hotel and tour place Applicants, and the broader community. This system enhances the visibility of Negeri Sembilan's attractions by providing a centralized platform that offers comprehensive information about tour places and halal-certified hotels. By integrating halal certification details directly into the tourism website, the system assures Muslim tourists of halal compliance, saving them the time and effort of searching multiple sources.

For local businesses, this increased exposure translates to a higher likelihood of attracting tourists who are assured of the halal status of hotels, thus driving foot traffic and enhancing the local economy. Hotel and tour place Applicants can directly update their profiles, ensuring potential visitors always have the latest information. The system also streamlines administrative processes, allowing Hotel Verifiers and Web Masters to efficiently manage and approve listings, and enabling Superadmins to oversee staff, Applicants, and listings, thus maintaining high operational standards.

Tourists benefit from an intuitive and user-friendly interface that allows them to easily find information on attractions and halal-certified accommodations, and they can leave reviews to help future travelers. All users, except tourists, can update their profiles, enhancing the overall user experience. This system not only boosts tourism revenue and job creation within the hospitality and tourism sectors but also encourages cultural exchange and awareness by providing information on cultural and historical sites.

In essence, the "Negeri Sembilan Tourism and Hotel Halal Management System" supports economic growth, fosters cultural exchange, and positions Negeri Sembilan as a leading destination for both general and halal-conscious travelers. By promoting the state's attractions and ensuring halal compliance, the system plays a crucial role in enhancing tourism and supporting local businesses.

#### 1.6 Conclusion

In conclusion, the "Negeri Sembilan Tourism and Hotel Halal Management System" addresses the critical need for a centralized, integrated platform to enhance the tourism experience in Negeri Sembilan. By providing comprehensive information about attractions and halal-certified accommodations, the system simplifies trip planning for tourists, particularly Muslim travelers. This project not only improves user experience by streamlining access to essential information but also boosts the local economy by increasing the visibility of tour places and hotels. Furthermore, it supports local businesses by allowing Applicants to manage their profiles and ensures operational efficiency through structured administrative roles. Ultimately, this system positions Negeri Sembilan as a competitive and appealing destination, fostering economic growth and cultural exchange.



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

### 2.1 Introduction

This chapter provides an in-depth examination of existing literature relevant to the development of a centralized tourism and hotel halal management system. The literature review focuses on the significance of digital platforms in tourism, the importance of halal certification in the hospitality industry, and the integration of these elements to enhance user experience. Additionally, this chapter outlines the methodology employed in the project, detailing the systematic approach taken to design, develop, and implement the "Negeri Sembilan Tourism and Hotel Halal Management System". The methodology section covers the research design, data collection methods, system design, development processes, and evaluation techniques used to ensure the project's objectives are met effectively. By combining insights from existing studies and a robust methodological framework, this chapter aims to establish a solid foundation for the project's implementation and success.

# 2.2 Facts and Finding

The "Negeri Sembilan Tourism and Hotel Halal Management System" demonstrated a significant impact through enhanced user engagement and operational efficiency. By consolidating tourism information and halal certification data into a single platform, the system facilitated easier access to detailed attractions and verified accommodations, particularly benefiting Muslim travelers. Administratively, it streamlined processes for Superadmins, Hotel Verifiers, and Web Masters, improving management of listings and content updates. User feedback drove continuous system improvements, enhancing overall user experience and operational effectiveness. Beyond functional gains, the system promoted local tourism, cultural exchange, and economic growth, positioning Negeri Sembilan as a leading destination while ensuring scalability and technological relevance for future developments.

## 2.2.1 Existing system

The Negeri Sembilan Tourism and Hotel Halal Management system is inspired by 2 existing systems which can be researched for this system will build the new system.

# Case study 1: Portal Rasmi Kerajaan Negeri Sembilan

Portal Rasmi Kerajaan Negeri Sembilan is owned by the state government of Negeri Sembilan which is a central service related to Negeri Sembilan. For example, 'Pejabat Tanah, 'Pihak berkuasa Tempatan', 'Jabatan Kerajaan', and many services that related. On the website, there's a tourism section but it is not user-friendly since it is in magazine form. Since tourism is in the government system, it is hard for tourists to find the central finding of tourism.

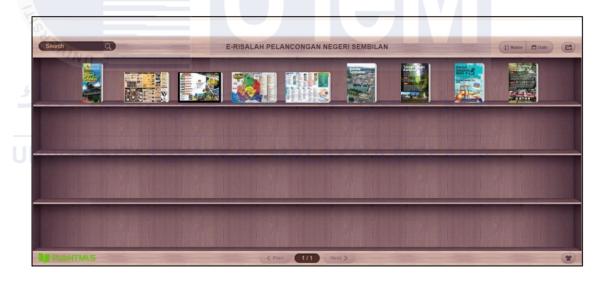


Figure 2.1 Collection E-Risalah Pelancongan

The E-Risalah is in the template or pamphlet form which makes it hard for the user to read. The pamphlet is usually a summary of something. In this case, some pamphlet is very crowded with words. It is also hard to find specific information, for example, the location of the place.



Figure 2.2 E-Risalah Pelancongan

## Case study 2: Halal Malaysia Official Portal (JAKIM)

In research of Halal Malaysia Official Portal (JAKIM), the website is allowed to show the list of hotel halal in Malaysia. The website also allows user to view the file of a list food that has HALAL verification.

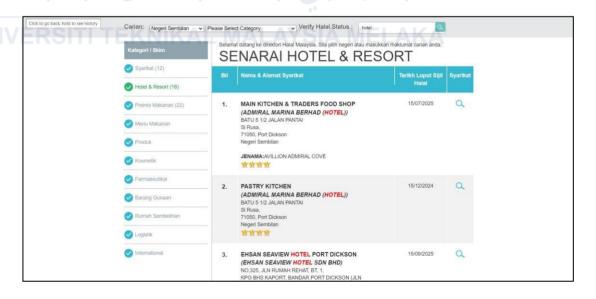


Figure 2.3 JAKIM Website

#### 2.3 Project Methodology

The methodology employed in developing the "Negeri Sembilan Tourism and Hotel Halal Management System" seamlessly integrated agile practices with structured planning to achieve efficient and adaptable project execution. Agile methodologies, characterized by iterative development cycles known as sprints, allowed for continuous improvement and responsiveness to stakeholder feedback throughout the project lifecycle. This approach enabled the development team to prioritize features based on user needs and rapidly incorporate changes, ensuring the system remained aligned with evolving requirements and market demands.

Simultaneously, structured planning phases were meticulously implemented to establish clear project objectives, scope, and milestones from the outset. These initial phases included comprehensive requirements gathering, detailed system analysis, and meticulous design processes. By defining these foundational aspects early on, the project maintained focus on delivering key functionalities essential for enhancing tourism management in Negeri Sembilan while adhering to predefined timelines and quality standards.

During the development phase, agile sprints facilitated the incremental construction of system components, allowing for early testing and validation of functionalities. This iterative approach not only fostered collaboration and communication among project stakeholders but also ensured that technical challenges and user requirements were addressed proactively. Rigorous testing, including unit testing, integration testing, and user acceptance testing (UAT), was conducted to verify the system's reliability, performance, and user-friendliness.

Furthermore, effective collaboration and communication channels were pivotal in maintaining transparency and alignment throughout the project. Regular meetings, workshops, and feedback sessions facilitated ongoing dialogue among developers, stakeholders, and end-users, enabling swift resolution of issues and ensuring that the final product met stakeholder expectations.

Post-deployment, the methodology emphasized continuous monitoring, evaluation, and iteration to refine and enhance system features based on user feedback and emerging needs. Documentation and user training materials were also integral to supporting seamless deployment and ensuring stakeholders were proficient in utilizing the system effectively.

In essence, the hybrid approach of agile development with structured planning enabled the successful delivery of the "Negeri Sembilan Tourism and Hotel Halal Management System," providing a robust, user-centric platform that enhances tourism management capabilities and promotes economic growth in Negeri Sembilan.

## 2.4 Project Requirements

A software and hardware requirement is urgent for each system development. These requirements are necessary for system development and system testing after the system is already finished and in testing mode.

# 2.4.1 Software Requirements

Software requirements a fundamental detail for software systems is to develop. It is a full explanation of the conduct of the system next to the build. Table 2.1 shows the software requirement and its description.

**Table 2.1 Software Requirement and its Description** 

No	Software	Description			
1	Xampp	Xampp is a free and open source cross-platform			
		web server solution stack package developed by			
		Apache Friends consisting mainly of the Apache			
		HTTP Server MySQL database, and interpreters			
		for script written in the PHP			
2	MySQL	MySQL is a freely available open source			
		Relational Database Management System			
		(RDBMS) that uses Structured Query Language			

		(SQL). SQL is the most popular language for adding, accessing and managing content in a				
		database				
3	Microsoft 365	Microsoft 365 is a product family of productivity				
	(Office)	software, collaboration and cloud-				
		based services owned by Microsoft. It				
		encompasses online services such				
		as Outlook.com, OneDrive, Microsoft Teams, programs formerly marketed under the				
		name Microsoft Office (including applications				
MAL	AYSIA	such as Word, Excel, PowerPoint				
- P		and Outlook on Microsoft				
<b>X</b>	TA D	Windows, macOS, mobile devices, and on the				
		web), enterprise products and services associated				
40,		with these products such as Exchange				
SAINO		Server, SharePoint, and Viva Engage.				
4	Google Chrome	Is a free website and the function is to run and				
ا مارل	بحسل مليسا	preview the system.				
5	Microsoft Window	Microsoft Windows acts operating system and				
NIVER	SITI TEKNIKA	Windows OS is 64-bit				

# 2.4.2 Hardware Requirements

These hardware requirements are very minimal. Table 2.2 shows hardware requirements and its description in the table below:

**Table 2.2 Hardware Requirements** 

No	Hardware	Description
1	Hardisk	This laptop has 237 GB
		free disk space
2	RAM	This laptop has 4 GB of
MALAYSIA		RAM memory
3	Processor	This laptop is using
XX		Intel(R) Core(TM) i3-
Y		8145U CPU
431/1/10	Laptop	The brand for this laptop
عا ماسیا ملاك	ىت تىكنىد	is ACER

# 2.5 Project Schedule and Milestones

Project schedule and milestones are so important to give clear guidance to finish the job based on a particular date. This can assist in managing the work and accomplishing the project on time that have been given. Project for PSM I are shown below to demonstrate in details in Table 2.3.

Table 2.3 Project Schedule and Milestone For PSM I

WEEK	ACTIVITIES	START DATE	END DATE	DELIVERABLES
1	Preparation to understudies and understudies started to finish the project title and proposal	12 March 2024	15 March 2024	List of topics and supervisor aware
2 MAL	Submit a complete proposal subject to supervisor for approval	18 March 2024	22 March 2024	Accreditation form reserves project is complete
3	Proposla presentation Chapter 1	25 March 2024	29 March 2024	Proposal presentation
4 3 1 1 1 1 1	Chapter 1 Chapter 2	1 April 2024	5 April 2024	Chapter 1 Action by supervisor and student
5VER	Chapter 3 KNIKAL	8 April 2024	12 April 2024	Action by supervisor and student
6	Chapter 3	15 April 2024	19 April 2024	Action by student
7	Project Progress presentation	22 April 2024	26 April 2024	Action by supervisor and student
9	Chapter 3	6 May 2024	10 May 2024	Action by Student
10	Chapter 4	13 May 2024	17 May 2024	Action by supervisor and student
11	Chapter 4 Project progress presentation	20 May 2024	24 May 2024	Action by supervisor and student

12	Project Demo	27 May 2024	31 May 2024	Action by supervisor and student
13	Undergraduate project report and presentation Schedule	3 June 2024	7 June 2024	Action by supervisor and student
14	PSM I project report and demo	10 June 2024	14 June 2024	Deliverable of complete undergraduate project report
15	PSM I presentation	17 June 2024	21 June 2024	Committee of PSM, supervisors, assessors, and students

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# 2.6 Conclusion

This chapter discusses the literature review and project methodology that are used to describe the arranging of the project. This chapter includes an introduction of the chapter, existing system, project methodology, project requirement and project schedule and milestones



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

#### 3.1 Introduction

Based on Chapter Three, this chapter section intends to talk about the analysis stage while creating the Negeri Sembilan Tourism and Hotel Halal Management System. Previously this system was developed, the research of the present and new systems is truly serious to ensure that the ongoing system will be describing the points of detail, and a flowchart is applied to demonstrate to show the sequence of the system.

Requirement analysis will cover the subject of information fulfillment which is the information that should be the system input and output the system that has to save inside of a database. At that point, for functional requirements, a Data flow diagram (DFD) will be used to demonstrate the flow of information between external entities and between processes stored in a database. The DFD depicts the system as far as its component pieces, with all interfaces among the components demonstrated. Nonfunctional requirements then will conclude how the system its expected capacities.

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## 3.2 Problem Analysis

The goal of the problem analysis is to learn and find out the issues domain well enough to analysis its problem issues, chance and restrain. It additionally defines the current based into account the business flow figure. The customer data update system will be analyzed and the disadvantage taken away this system that can bring the issue over it will be talked about in details in Section 3.2.1 which is in current system analysis.

### 3.2.1 Current System Analysis

### 3.2.1.1 Tourism information in Negeri Sembilan

The official portal of Negeri Sembilan includes a section on tourism, but it fails to provide detailed and comprehensive information about the state's attractions. The portal relies on 'E-risalah,' an electronic pamphlet, to disseminate tourism information. This approach is problematic as it lacks interactivity and depth, making it difficult for users to access up-to-date and detailed information about various tourist spots. The reliance on static pamphlets limits user engagement and does not meet the expectations of modern travelers who seek dynamic and easily navigable online resources.

## 3.2.1.2 Hotel halal Certification in Malaysia

Similarly, the current system for halal hotel certification in Malaysia is fragmented. The primary authority, JAKIM, provides halal certification but does not offer an integrated, user-friendly platform for tourists to easily verify the halal status of hotels. Travelers must visit multiple websites, including JAKIM's official portal, individual hotel websites, and third-party travel sites, to gather this information. This scattered approach is time-consuming and often results in outdated or incomplete information. Furthermore, JAKIM's listings are static and lack interactive features, such as filtering and sorting, making it difficult for users to find relevant information quickly. The absence of user reviews and real-time updates further exacerbates the problem.

#### 3.3 Requirement Analysis

Requirement analysis, additionally called requirement engineering, is the procedure of deciding user expectancy desires for another or altered item. These elements, termed requirements, must be quantifiable, compatible and meticulous. In software engineering, such fulfillments are regularly termed as functional specification.

Fulfillment test is an advocate part of project management.

Requirement analysis includes general connection with system user to define exact component point up prediction, determination of contention or uncertainty in fulfillment as requested by the different users or grouping of user, prevent of highlight creep and documentation of all parts of the project development process all the way. Energy ought to be coordinated towards guaranteeing that the last system or item fits in with customer needs as opposed to pursue to form client desires to fit the fulfillment. Next, requirements analysis is a grouping that requests a associate of hardware, software and human factors engineering designing and in addition aptitudes in managing individuals. The architecture fulfillment that will be include here comprises of data requirement, functional requirement, non-functional requirement and other requirement (software, hardware and network).

### 3.3.1 Functional Requirement

The functional requirement catches the proposed conduct of the system. This conduct as it could be imparts as administrator, assignment or scope the system is recommend to perform A function is define as an arrangement of information, the performance and the output. It drives design of a system. Functional requirement for Negeri Sembilan Tourism and Hotel Halal Management System will be show applying DFD.

### 3.3.1.1 Context Diagram

A Context Diagram demonstrates the system under thought as a high level procedure then demonstrates the relationship that the system has with other outer elements (systems, organizational groups and external data stores).

Another name for a Context Diagram is as known as Context-Level Data-FlowDiagram or a Level-0 Data Flow Diagram. As seeing that a Context Diagram is a particular form of Data-Flow Diagram, understanding a touch about Data-Flow Diagrams can be useful. Figure 3.2 show the context diagram of the Negeri Sembilan Tourism and Hotel Halal Management System.

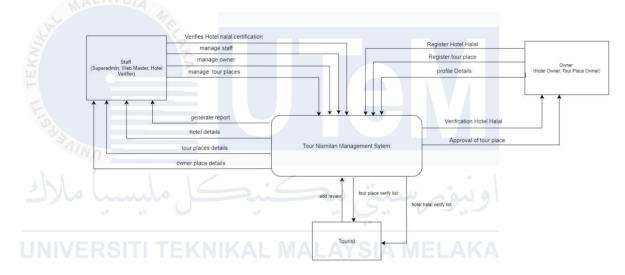


Figure 3.1: Context Diagram

## 3.3.2 Non-Functional Requirements

Non-functional requirement is a fulfilment in order point of comparison that can be used to comment the process of a system, instead of the details performance. This should be showed up differently in functional that describe specific behavior. The arrangement for implement functional requirement is details in the system design. The appliance of non-functional is specific in system architecture.

### 3.4 Conclusion

This section clarifies about the investigation that covers issue examination for the present system, data requirement, functional requirement, non-functional requirement and others requirement which is software, hardware and network requirements. The advocacies of usage each of them in this system are detail briefing in this chapter. Issue analysis for the current system is analyzed and from that requirement for new system that will be build can be focus. Information requirement is for figuring out what information need to be in database. Functional requirement specify the function of the system, how it's record, figure, change and transmit data.



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

### 4.1 Introduction

This part will explain in detail the design of the system development. Generally, of the system stream will be clarified here. After having all the data from analysis stage in the part III, designer can plan the system in depends on what all fulfilment they have some time recently.

# 4.2 High Level Design

High level design discusses a general point of view of how something ought to capacity and the top level parts that will include the proposed arrangement. It ought to have exceptionally points of interest on usage and now and again not even subtle elements, for instance database sort and programming dialect and its stage

## 4.2.1 User Interface Design



Figure 4.1 Interface homepage of tourist website



Figure 4.2 Interface Homepage of tourist website



Figure 4.3 Interface homepage of background Negeri Sembilan



Figure 4.5 Interface of Negeri Sembilan's song

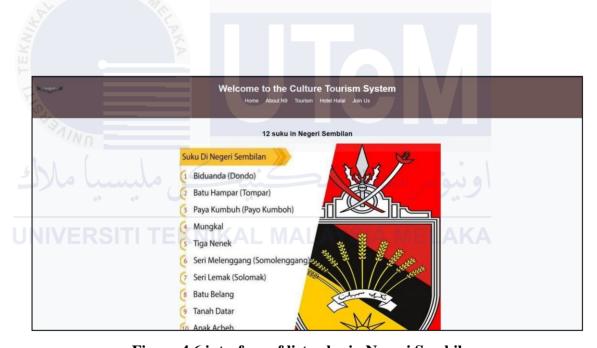


Figure 4.6 interface of list suku in Negeri Sembilan

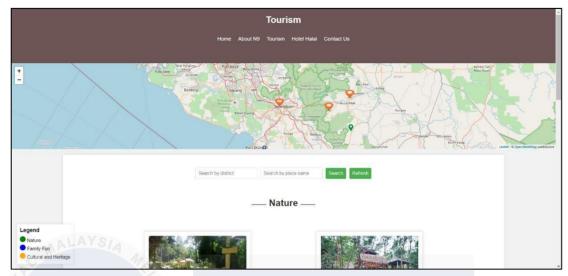


Figure 4.7 Interface of tourism in tourist website



Figure 4.8 Interface of list Attraction place in Negeri Sembilan

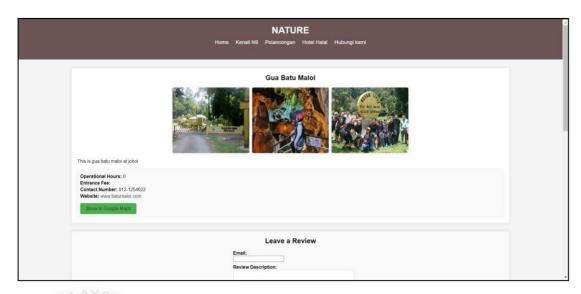


Figure 4.9 Interface of details of attraction place in Negeri Sembilan



Figure 4.10 Interface of user review in details attraction



Figure 4.11 The interface of list of attractions place in the Family fun category

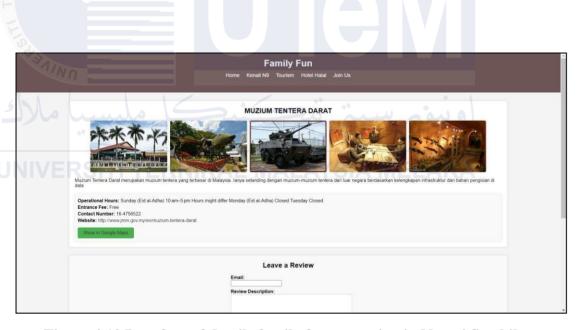


Figure 4.12 Interface of details family fun attraction in Negeri Sembilan

Contact Number: 16-4756522 Website: http://www.jmm.gov.my/en/muzium-tent	era-darat		
Show in Stodyo mapo			
	Lea	ave a Review	
	Email:		
	Review Description	n:	
	Rating:	te	
		****	
		Submit Review	
		South Forthw	
		Reviews	
		Reviews	
			Email: kikilah@gmail.com
Email: zack@gmail.com	Email: kiki@gmail.com	Email: kiki@gmail.com	
Email: zack@gmail.com Rating: 5 * Review: tempat ini sangat menarik dan sesual bawa keluarga	Email: kiki@gmail.com Rating: 4 ★ Review: tempat yang menarik	Email: kiki@gmail.com Rating: 4 ★ Review: tempat yang menarik	Rating: 4 ★ Review: tempat yang menarikdan bagus
Rating: 5 ★ Review: tempat ini sangat menarik dan sesuai	Rating: 4 ★	Rating: 4 ★	Rating: 4 *

Figure 4.13 Interface of review in family fun details

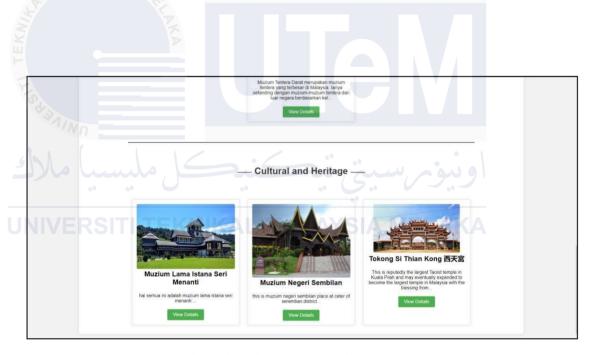


Figure 4.14 Interface list of attraction of cultural and heritage category

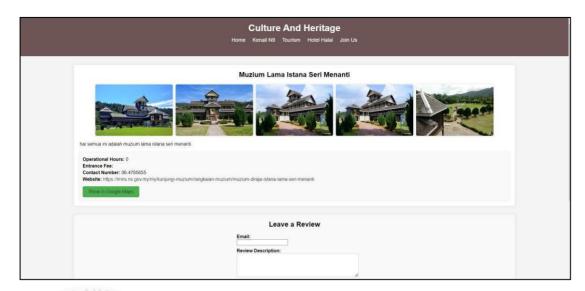


Figure 4.15 Interface of details Muzium Lama Istana Seri Menanti

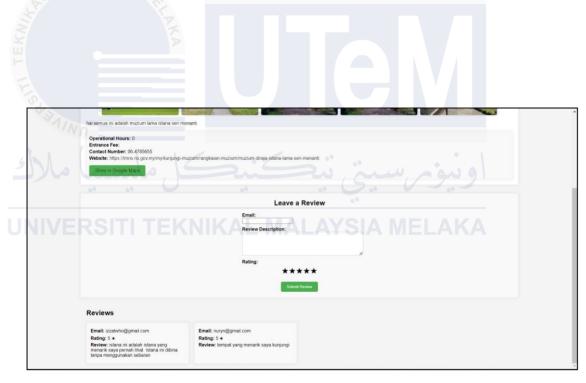


Figure 4.16 Interface of review

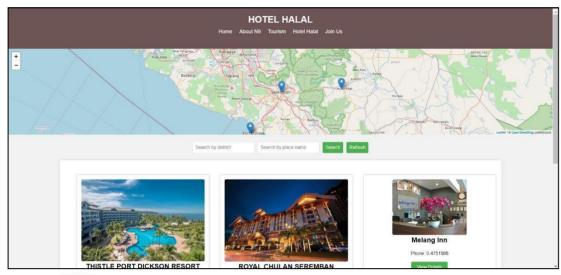


Figure 4.18 Interface of list of hotel halal in Negeri Sembilan

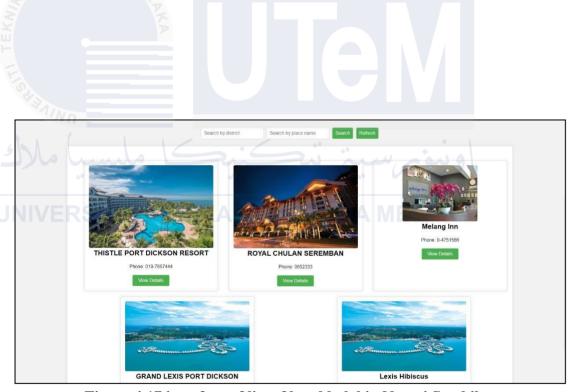


Figure 4.17 interface of list of hotel halal in Negeri Sembilan

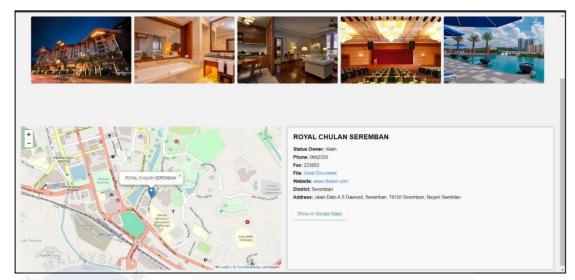


Figure 4.19 Interface of hotel halal details



Figure 4.20 Interface of User button to login

CONTACT US			
	Home About N9 Tourism Hotel Halail Contact Us		
	Owner Login  Email:		
	Password: Login		
	Register		

Figure 4.21 Interface of Applicant login form website

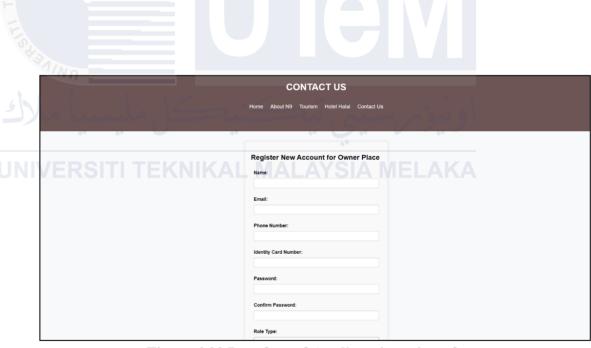


Figure 4.22 Interface of Applicant's register form

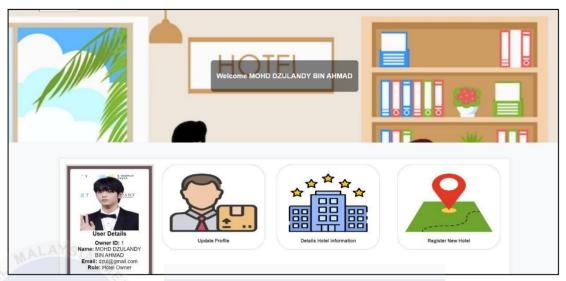


Figure 4.23 Interface of homepage of hotel Applicant

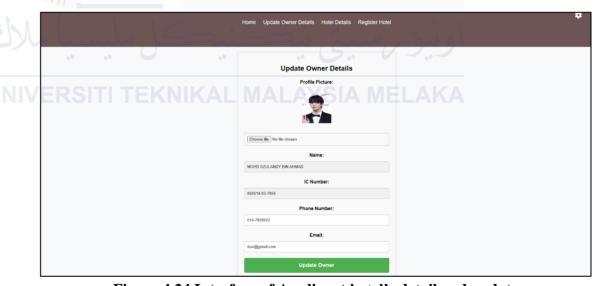


Figure 4.24 Interface of Applicant hotel's detail and update

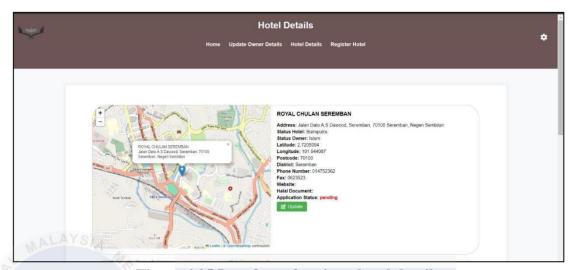


Figure 4.25 Interface of register hotel details

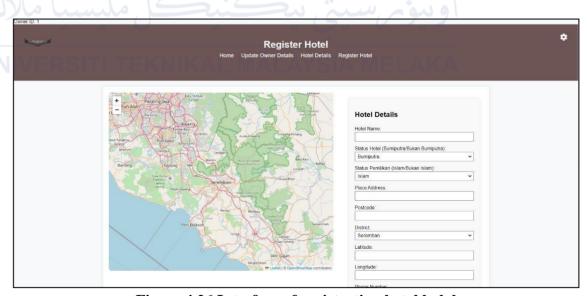


Figure 4.26 Interface of registration hotel halal

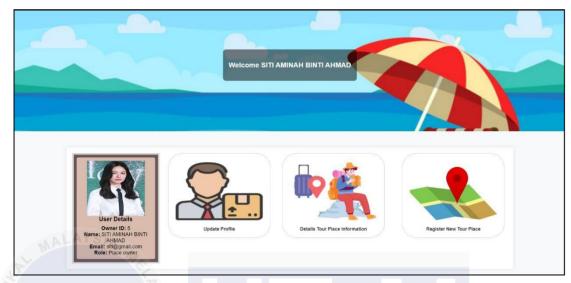


Figure 4.27 Interface of homepage Applicant tour place

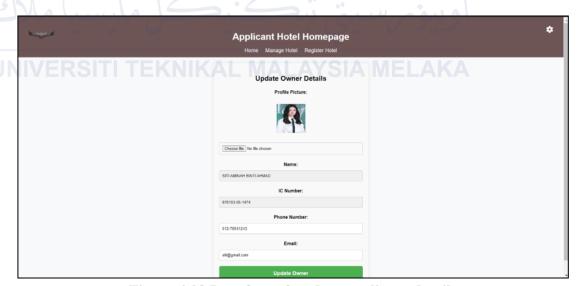


Figure 4.28 Interface of update applicant details

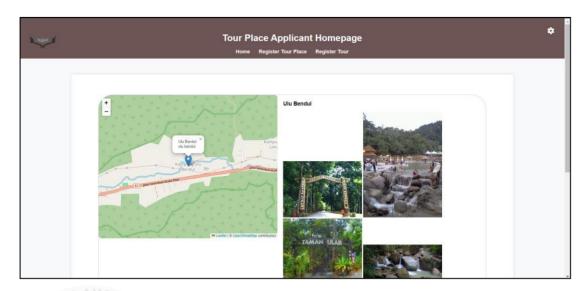


Figure 4.29 interface of list tour place application



Figure 4.30 Interface of tour place application



Figure 4.32 interface of update tour place details



Figure 4.31 Interface of update tour place details



Figure 4.34 Interface of homepage staff Web Master of Kuala Pilah

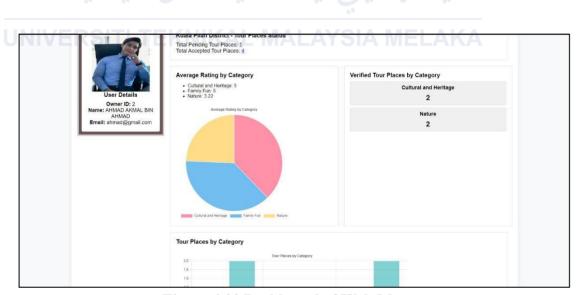


Figure 4.33 Dashboard of Web Master

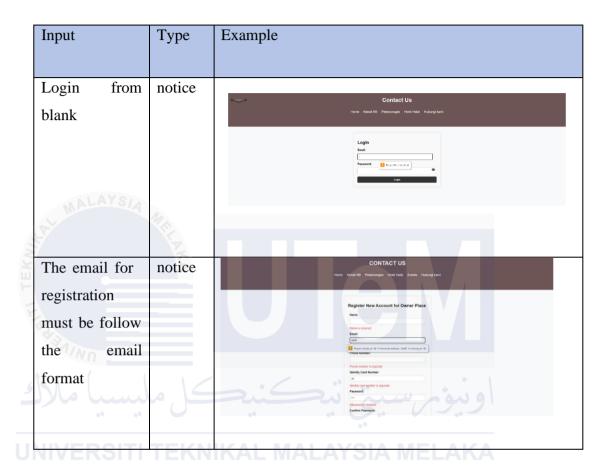


Figure 4.35 Interface of homepage staff Hotel halal Verifier

# 4.2.1.1 Output design

Output design procedure is what the user needs to see from the system. The output result comes from the info the user gives. Table 4.1 demonstrates the yield outline for this system.

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**Table 4.1 Output Design** 

## 4.2.2 Database Design

Database design is the procedure of making a point of interest information mode. of model of a database. This sensible information model contains everything the required real and physical configuration choices and physical stockpiling parameters anticipated that would create a blueprint in a Data Definition Language (DDL), Which can then be utilized to make a database. A totally credited information model contains subtle elements properties for each element. Conceptual and Logical Database Design

## 4.2.2.1 Conceptual and database design

In the conceptual design stage, data showing is used to make a structure that identifies with certified article in the most reasonable way that is accessible. The hypothetical model must embody a sensible perception of the business and its helpful locales. The computed system must be customizing and gear self-ruling, so that the system can be set up within any hardware and programming stage picked.

## i) Entity Relationship Diagram

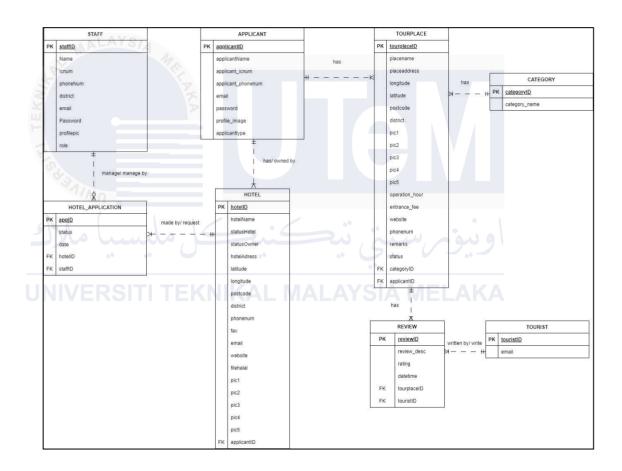


Figure 4.36 ERD of Negeri Sembilan Tourism and Hotel Halal Management System

## ii) Business rule

- one staff manage zero or many hotel application
- hotel application is manage by one and only staff
- hotel application was made by one hotel
- one hotel can request one or many hotel application
- one hotel made by one applicant
- one applicant has one or many hotels
- one applicant has one or many tour place
- one tour place has one applicant
- one tour place has one category
- one category has one or many tour place
- one tour place has one or many reviews
- one review has one tour place
- one review was written by a tourists
- one tourist write one or many reviews.

# 4.2.2.2 Logical Database Design

**Table 4.1 Table Category** 

key	Attribute	Description	Data type and size	FK reference table
PK	categoryID	Category ID	INT (100)	
	Category_name	Name of category	Varchar (100)	

**Table 4.2 Table Tourist** 

key	Attribute	Description	Data type and size	FK reference table
PK	touristID	tourist ID	INT (100)	
سا ملاك	email	Email of tourist	Varchar (100)	١

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**Table 4.3 Table Review** 

key	Attribute	Description	Data type and size	FK reference table
PK	reviewID	Category ID	INT (100)	
	Review_desc	Description of review	Varchar (100)	
MALAY	rating	Rating of tourplace review	Varchar (100)	
<u>-</u>	datetime	Date and time of review	Timestamp (6)	
FK	tourplaceID	Tourplace ID	INT (100)	Tourplace
FK	TouristID	Tourist ID	INT (100)	Tourist

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**Table 4.4 Table Tourplace** 

	key	Attribute	Description	Data type and size	FK reference table
•	PK	tourplaceID	Tourplace ID	INT (100)	
•		placename	Name of tour place	Varchar (100)	
•	MALAY	placeaddress	Address of tour place	Varchar (100)	
TEKNI	-	longitude	Longitude of tour place	Varchar (100)	
14	SANING	latitude	Latitude of tour place	Varchar (100)	
5	سا ملا	postcode	Postcode of tour place	Varchar (100)	١
J	NIVERS	district	District of tour place	Varchar (100)	(A
•		Pic1	First picture of tour place	Varchar (100)	
•		Pic2	Second picture of tour place	Varchar (100)	
		Pic3	Third picture of tour place	Varchar (100)	
		Pic4	Forth picture of tour place	Varchar (100)	

ſ			Eifth		
		Pic5	Fifth picture of	Varchar (100)	
			tour place		
•			The		
		Operation_hour	operation	Varchar (100)	
		operation_nour	hour of tour	varenar (100)	
			places		
			The		
		Entrance_fee	entrance	Varchar (100)	
		Entrance_rec	fee of tour	varenar (100)	
		SIA MA	places		
11.		website	Website of	Varchar (100)	
EK		Website	tour place	varenar (100)	
			Phone		
1		phonenum	number of	Varchar (100)	
			tour places		
5	BA . (		The		
		remarks	description	Varchar (100)	91
		TI TEVNIV	of tour	AVELA MELAK	- A
	NIVERSI	HERNIK	place	ATSIA WELAR	.A
			Status of		
			verification		
		status	or pending	Varchar (100)	
			of tour		
			place		
	FK	categoryID	Category	INT (100)	Category
		5 7	ID	` '	<i>U</i> ,
	FK	applicantID	Applicant	INT (100)	Applicant
		11	ID	, ,	11

**Table 4.5 Table Applicant** 

key	Attribute	Description	Data type and size	FK reference table
PK	applicantID	Applicant ID	INT (100)	
	applicantname	Name of Applicant	Varchar (100)	
AL MALA	applicant_icnum	Identity card number of applicant	Varchar (100)	
	applicant_phonenum	Phone number of applicant	Varchar (100)	
ABAIND	email	Email of applicant	Varchar (100)	
سا مالال	بحك ماس	Password	و سوم ست	) \
**	password	account of	Varchar (100)	
NIVERS	ITI TEKNIKAL	applicant	SIA MELAK	A
	Profile_image	Profile picture of applicant	Varchar (100)	
	Applicanttype	Type of applicant	Varchar (100)	

**Table 4.6 Table Hotel** 

	key	Attribute	Description	Data type and size	FK reference table
	PK	hotelID	Hotel ID	INT (100)	
		hotelname	Name of hotel	Varchar (100)	
		statushotel	The status of hotel	Varchar (100)	
	AL MALAY	statusApplicant	The status of Applicant	Varchar (100)	
I E N N /		hoteladdress	Address of hotel	Varchar (100)	
1	STATING.	longitude	Longitude of hotel	Varchar (100)	
6	سياً ملال	latitude	Latitude of hotel	Varchar (100)	١
	NIVERSI	postcode	Postcode of hotel	Varchar (100)	(A
		district	District of hotel	Varchar (100)	
		Pic1	First picture of hotel	Varchar (100)	
		Pic2	Second picture of hotel	Varchar (100)	
		Pic3	Third picture of hotel	Varchar (100)	

		Forth		
	Pic4	picture of	Varchar (100)	
		hotel		
		Fifth		
	Pic5	picture of	Varchar (100)	
		hotel		
	Fax	Fax number	Varchar (100)	
	1 dx	of hotel	varenar (100)	
		The		
0.74	filehalal	document	Varchar (100)	
MALAY		of halal file		
		hotel		
	website	Website of	Varchar (100)	
	website	hotel	varenar (100)	
5		Phone		
MINN	phonenum	number of	Varchar (100)	
15/		hotel		
·· • • • • • • • • • • • • • • • • • •	email	The email	Varchar (100)	91
MIV/EDCI	TI TEI/AIII/	of hotel	AVOIA BAFI AL	- A
FK	applicantID	Applicant	INT (100)	Applicant
110	аррисанию	ID	1111 (100)	Тършеши

**Table 4.7 Table Hotel\_application** 

key	Attribute	Description	Data type and size	FK reference table
PK	appID	Hotel application ID	INT (100)	
MALAY	status	The status of verification hotel	Varchar (100)	
	date	Date time of application	Timestamp (6)	
FK	hotelID	Hotel ID	INT (100)	Hotel
FK	staffID	staff ID	INT (100)	Staff

Table 4.8 Table Staff

key	Attribute	Description	Data type and size	FK reference table
PK	staffID	Staff ID	INT (100)	
	icnum	Identity card number of staff	Varchar (100)	
	phonenum	Phone number of staff	Varchar (100)	
	district	District that enroll to staff	Varchar (100)	

	email	Email of staff	Varchar (100)	
	password	Password account of staff	Varchar (100)	
	profilepic	Profile picture of staff	Varchar (100)	
MALAY	role	Type of role for each staff	Varchar (100)	

## 4.3 System Architecture

System architecture is the theoretical model that characterizes the structure, conduct and more perspectives of a system. A building desigen depiction is a formal portrayal and representation of a system, sorted out in a manner lil backings linking about the structure of in the middle of them and gives an arangement from which tens can be secured, and systems add to, that will cooperate to execute the general system.

### 4.3.1 Data definition Language

A DDL is sentence structure like a PC programming dialect for characterizing unformation structures, particularly database diagram. The DDL is utilized to make, modify and drop database and database objects. These database ens incompone construction, tables, perspectives, groupings and files. This summon is wiled by database manager amid the setup and evacuation periods of databases items. Figure 4.17 until Figure 4.22 demonstrates the inquiry to make table is database

### **CREATE TABLE**

```
CREATE TABLE `category` (
    `categoryID` int(100) NOT NULL,
    `name` varchar(100) NOT NULL
);
```

Figure 4.38 create table Category

```
CREATE TABLE `hotel` (
 'hotelID' int(100) NOT NULL,
 'hotelname' varchar(100) NOT NULL,
 `statushotel` varchar(100) NOT NULL,
 `statusApplicant` varchar(100) NOT NULL,
 'hoteladdress' varchar(100) NOT NULL,
 `latitude` varchar(100) NOT NULL,
 `longitude` varchar(100) NOT NULL,
 'postcode' varchar(100) NOT NULL,
 'district' varchar(100) NOT NULL,
 `phonenum` varchar(100) NOT NULL,
 'fax' varchar(100) NOT NULL,
 'email' varchar(100) NOT NULL,
 `website` varchar(100) NOT NULL,
 `file` varchar(100) NOT NULL,
 'pic1' varchar(100) NOT NULL,
 'pic2' varchar(100) NOT NULL,
 'pic3' varchar(100) NOT NULL,
 'pic4' varchar(100) NOT NULL,
 'pic5' varchar(100) NOT NULL,
 `applicantID` int(100) NOT NULL
);
```

Figure 4.37 create table Hotel

```
CREATE TABLE `hotel_application` (
  `appID` int(100) NOT NULL,
  `status` varchar(100) NOT NULL,
  `date` timestamp(6) NOT NULL DEFAULT current_timestamp(6)

ON UPDATE current_timestamp(6),
  `staffID` int(100) NOT NULL,
  `hotelID` int(100) NOT NULL
);
```

Figure 4.40 create table hotel\_application

Figure 4.39 create table applicant

```
CREATE TABLE `staff` (
         `staffID` int(100) NOT NULL,
         'name' varchar(100) NOT NULL,
         `icnum` varchar(14) NOT NULL,
         `phonenum` varchar(12) NOT NULL,
         'district' varchar(100) DEFAULT NULL,
         'email' varchar(40) NOT NULL,
         `password` varchar(50) NOT NULL,
         `profilepic` varchar(100) NOT NULL,
         `role` varchar(50) NOT NULL
        );
                          Figure 4.42 create table staff
        CREATE TABLE `review` (
         `reviewID` int(100) NOT NULL,
         `review_desc` varchar(100) NOT NULL,
UNIV
         'rating' varchar(100) NOT NULL,
         `tourplaceID` int(100) NOT NULL,
         `DATE` timestamp(6) NOT NULL DEFAULT current_timestamp(6)
        ON UPDATE current_timestamp(6),
         `touristID` int(100) NOT NULL
        );
```

Figure 4.41 create table review

```
CREATE TABLE `tourist` (
  `touristID` int(100) NOT NULL,
  `email` varchar(100) NOT NULL
);
```

Figure 4.44 create table tourist

```
CREATE TABLE `tourplace` (
 `tourplaceID` int(100) NOT NULL,
 `placename` varchar(100) NOT NULL,
 `placeaddress` varchar(100) NOT NULL,
 `longitude` varchar(100) NOT NULL,
 `latitude` varchar(100) NOT NULL,
 `postcode` varchar(100) NOT NULL,
 'district' varchar(100) NOT NULL,
 `pic1` varchar(100) DEFAULT NULL,
 `pic2` varchar(100) DEFAULT NULL,
 'pic3' varchar(100) DEFAULT NULL,
 'pic4' varchar(100) DEFAULT NULL,
 'pic5' varchar(100) DEFAULT NULL,
 `operation_hour` varchar(100) NOT NULL,
 `entrance_fee` varchar(100) NOT NULL,
 `website` varchar(100) NOT NULL,
 `phonenum` varchar(100) NOT NULL,
 `applicantID` int(100) NOT NULL,
 `remarks` varchar(100) NOT NULL,
 `categoryID` int(100) NOT NULL,
 `status` varchar(100) NOT NULL
);
```

Figure 4.43 create table tourplace

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

#### 5.1 Introduction

Chapter 5 will examine insight into the execution of the Negeri Sembilan Tourism and Hotel Halal Management System. This section is separated into two sections which are system advance and Database Improvement. The execution includes the product advancement environment setup which spreads the structural planning of the customer server programming and database that will be utilized for the system improvement. Programming arrangement administrators cover the setup of the product to satisfy system necessities.

The rendition control method is characterized by controlling and overseeing source code adaption for any redesigned code that has been done to the system. It is also like database improvement. The execution status will decrypt all the advancement of the system and the database improvement status for each of the system and database module

## 5.2 Software Development Environment Setup

This area should be considered the introductory setup for the product improvement setup for Negeri Sembilan Tourism and Hotel Halal Management System venture. It will depict the parts essential for the improvement of the environment. The system has two levels: level one collaboration in the middle of the client and system through a Graphic User Interface (GUI). Level two covers the correspondence in the middle of the system and database which lets the database let the client recover and control the information considering their approval setting.

The product advancement environment setup of Negeri Sembilan Tourism and Hotel Halal Management System is utilizing three-level construction modeling which comprises of customer level, center level, and database level. For customer level, client need utilize a web program to get to the system. At that point, the center point which is application server let utilization to associate with the database server to recover or control the information with it. Each of the levels ought to cooperate in great condition

to guarantee the system can run easily. Three-level building design structures are indicated in **Figure 5.1** below.

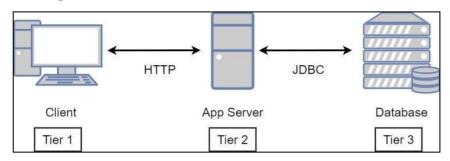


Figure 5.1 Software Development Environment Setup for Negeri Sembilan Tourism and Hotel Halal Management System

# **5.2.1** Software Environment Setup

This area should be considered as the introductory setup for the product improvement setup for Negeri Sembilan Tourism and Hotel Halal Management System. It will depict the parts essential for the improvement of the environment.

The software environment setup for the Negeri Sembilan Tourism and Hotel Halal Management System involves using XAMPP, a cross-platform web server solution that includes Apache, MySQL, and PHP. Apache serves as the web server, while MySQL manages the system's database, storing critical data in tables like `APPLICANT`, `HOTEL`, and `TOURPLACE`. The project files are placed in the XAMPP `htdocs` directory, enabling the system to be accessed locally via `http://localhost/psmtour`.

PHP scripts, utilizing the `mysqli` extension, handle the database connection and interactions with MySQL. The system is developed and tested using Google Chrome, often in Incognito mode, to ensure a consistent user experience. This setup provides a stable and efficient environment for the development and operation of the system.

## **5.2.2** Database Environment Setup

The database environment setup for the Negeri Sembilan Tourism and Hotel Halal Management System is a critical component that ensures the proper functioning of the system's backend. This setup utilizes XAMPP, a widely-used local development environment that includes Apache and MySQL. XAMPP allows the developer to run the system on a local server, providing the necessary infrastructure for database operations.

The configuration begins by establishing a connection to the MySQL database using PHP's `mysqli` extension. The connection parameters are defined, including the hostname ('localhost'), username ('root'), and the database name ('psmtour2'). These parameters are essential as they determine where and how the application will connect to the database. The script then attempts to establish a connection using these parameters. If the connection fails, an error message is generated to help identify and resolve the issue. This ensures that any problems with the database connection are detected early in the development process.

The setup is also compatible with modern web browsers like Google Chrome and can be tested in Incognito mode, which helps avoid conflicts with cached data or saved sessions. This flexibility is important for the development and testing phases, ensuring that the system's graphical user interface (GUI) interacts seamlessly with the database. Overall, the database environment setup is crucial for the system's ability to store, retrieve, and manage data, forming the backbone of the application's functionality.

While the database environment is set up, the developer must configure settings for database connection. The database connection is shown in **Figure 5.2.** 

Figure 5.2 Database connection code in Visual Studio Code

# 5.2.2.1 Configure Database Connection

## i. Google Chrome and Incognito window



Figure 5.3 Google Chrome and Incognito Window

The developer should start by opening Google Chrome, preferably in an Incognito window, to ensure that there are no cached files or stored sessions that could interfere with the development process. In the Incognito window, the developer navigates to the

local development environment by typing the URL http://localhost/psmtour. This URL corresponds to the local site folder located at C:\xampp\htdocs\psmtour, which is where the project files are stored on the developer's computer.

To configure the server connection for the "Negeri Sembilan Tourism and Hotel Halal Management System," the developer needs to specify that the connection is made using the 'Local/Network' option, meaning it's hosted locally on the developer's machine. This is facilitated by the XAMPP server, which uses Apache as the webserver to handle requests to http://localhost/psmtour.



Figure 5.4 XAMPP and MySQL Server

Within the XAMPP environment, the MySQL server is used to manage the system's database. The developer begins by creating a new database named psmtour2. This database will contain several tables that store the data needed for the system's operation. These tables include:

**APPLICANT**: Stores information about individuals applying for something within the system.

**HOTEL**: Contains details about the hotels listed in the system.

**HOTEL\_APPLICATION**: Records applications related to the hotels.

**TOURPLACE**: Contains information about the tourist attractions in Negeri Sembilan.

**STAFF**: Stores data on the system's staff members.

**REVIEW**: Holds reviews left by users or tourists.

**TOURIST**: Records information about tourists using the system.

The developer will define the structure of each table, specifying the fields (attributes) and data types required to store the relevant information effectively.

# 5.3 Software Configuration Management

Software Configuration Management (SCM) plays a critical role in the development and maintenance of the Negeri Sembilan Tourism and Hotel Halal Management System. SCM involves the systematic tracking and controlling of changes in the software throughout its lifecycle, ensuring that every modification is documented and managed efficiently. In this system, SCM is crucial for maintaining consistency across different versions of the software, especially as updates and improvements are made. The key objectives of SCM in this context include configuration identification, where all software components are clearly identified; configuration control, which manages changes to these components; and configuration status accounting, which tracks the history of changes.

For the Negeri Sembilan Tourism and Hotel Halal Management System, version control is essential to manage the different stages of development, from initial setup to deployment and beyond. This ensures that any changes, such as adding new tourist attractions or updating hotel information, are recorded and can be traced back if needed. Process management within SCM also helps in coordinating the development activities among the team members, ensuring that all are working on the correct version of the system. Environment management ensures that the system operates consistently across different environments, such as development, testing, and production. The SCM practices adopted in this project help maintain the integrity and reliability of the system, which is vital for delivering a robust and user-friendly platform to the end-users.

## **5.3.1** Configuration Environment Setup

The Configuration Environment Setup involves the installation and configuration of the necessary software to build and maintain the Negeri Sembilan Tourism and Hotel Halal Management System. The system utilizes XAMPP, which

includes Apache as the web server and MySQL as the database server. MySQL Server is the primary database used for storing and managing the system's data. The development process is carried out using web browsers such as Google Chrome, with the option to use Incognito mode for testing and development purposes. This environment is crucial for developing the Graphical User Interface (GUI) and ensuring that the system runs smoothly on various setups, providing a consistent user experience across different platforms.

## **5.3.2** Version Control Procedure

Version Control is for the most part utilized by programming designers to put source code in one focal place and track diverse variant code, which are produced alongside everyday work. Most form control systems can be coordinated with autonomous advancement environment (IDE).

Basic version control methodology is expected to make or include an undertaking in the source control system introduction for the form control. After that, designer can simply recover the venture from the server to a nearby machine, which as of now contains the adaptation control data due to begin the following or administrator of the variant. Figure 5.4 shows how the rendition controls functions. Beginning from rendition 1, the adaptation will be altered, and the outcome will create the next form. The adaptation will be altered and will be stopped at the last form, which means the system won't have any upgrades on it any longer.

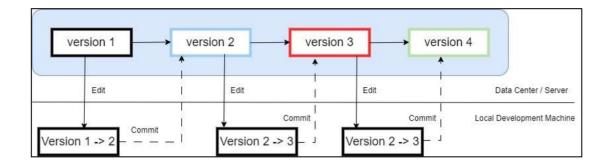


Figure 5.5 Version Control procedure for client/server architecture system

Table 5.1 List of version control procedures for Negeri Sembilan Tourism and Hotel Halal Management System

Version	Description		
Version			
Negeri Sembilan	This is the first version of the system that just have the		
Tourism and Hotel	system route stream and the interface of the system. The		
Halal Management	reasons for existing client exemption are the system		
System v.1.0 route stream and the interface to meet client necessitie			
Negeri Sembilan	This version covered several parts of the system		
Tourism and Hotel	including adding, updating, deleting, and deleting data		
Halal Management	with authentication.		
System v.1.1			
Negeri Sembilan	This version is the upgrade of the past version and the		
Tourism and Hotel	whole system module is now created. Every one of the		
Halal Management	mistakes is adjusted and the system completely working		
System v.2.0			
Negeri Sembilan	Full complete version of the system		
Tourism and Hotel			
Halal Management			
System v.2.1			

# **5.4** Implementation Status

The implementation status lets the developer know how much advancement of the system is for every module or segment. From it, the designer can compute the rate of the system to be finished. Table 5.2 demonstrates the execution of the Negeri Sembilan Tourism and Hotel Halal Management System.

Table 5.2 Implementation status of Negeri Sembilan Tourism and Hotel Halal Management System

Module	Description	Duration	status
name/component			
Login	Authentication of the system access	1 week	Complete
Registration	Staff and applicant Registration	1 week	Complete
Hotel Halal Management	Management of hotel details, including adding and updating hotel halal status	2 weeks	Complete
Tourist Attraction management	Management of tourist attraction information	2 weeks	Complete
Review Management	Management of tourist reviews	1 week	Complete
Application  Management	Handling application for register halal hotel	1 week	Complete

# 5.5 Conclusion

This part clarifies the implementation of the system, and it covers about the product advancement environment setup, database usage, and programming design administration. All these can give designers a clear vision of their system to satisfy system requirements and client fulfilment while utilizing it.



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

#### 6.1 Introduction

Chapter 6 will discuss all the testing phases of the Negeri Sembilan Tourism and Hotel Halal Management System. The goal is to assess the ability of a system and verify that it is suitable for every fulfillment. The reason for testing is to discover any bugs or failures in the system and the developer can troubleshoot and solve it problem. Given this system development System Development Life Cycle (SDLC) strategy, the testing should be complete for each complete system module.

Another in-order intention that will be discussed in this chapter is the test plan which contains classes of tests, test environments, and test schedules. After that, the test strategy includes classes of tests. Now test design contains test descriptions and test data. After that, the tests result and analysis even if the system test is achieved or failed and the fulfillment of the user while testing this system will be accomplished.

# 6.2 Test Plan

A test plan can be prescribed as a report that defines the scope, approach, resource, and timetable of proposed testing activities. It recognizes test items, the component feature to be tried, the testing task, who will do each of the works, and any possibilities involving a crisis plan.

## **6.2.1** Test Organization

A test organization is a gathering of individuals whose assignment is to do the testing exercise all through the testing procedure. They originated from different foundations, qualities, and data innovation experiences to deliver distinctive beliefs that will be valuable; data for system testing results. The helpful data incorporates system quality, shortcomings, requirements, and access for diverse levels for the system chairman (Project Supervisor) and (clients). The system will be tested by the System Developer, Project Supervisor, and clients.

System Developer is the individual who controls the building of the Negeri Sembilan Tourism and Hotel Halal Management System. The Project Supervisor is the individual who administers the System Developer's work, and she will run the client acknowledgment test. At that point, clients (administrators) are the individuals who utilize the system at will make enlistment, include, overhaul, and erase course and include, redesign erase stop. The Venture Supervisor and clients will go about the end utilization of the system. **Table 6.1** shows a rundown of clients who will run the system and their individual undertakings.

Table 6.1 List of the user and their responsibility

	Tester	Title /Post	No.	Test	Responsibility		
KNI	ID		of	type			
Ц —			tester				
14	Tester	System	2	White-	Include developing, documenting,		
	1	Developer		box	managing, and testing the system. The		
	NI			testing	system Developer will guarantee that the		
5	املا	ملس		ڪئيد	system will run easily considering		
				••	prerequisites and targets before conveyed to		
J	VIVER	SITI TE	KNII	(AL M	the end client		
	Tester	Project	1	Black-	Act as end client for Negeri Sembilan		
	2	Supervisor		box	Tourism and Hotel Halal Management		
				testing	System as manager of the system. Test the		
					system module and give input. Her criticism		
					can be as manual for upgrading the system.		
ŀ	Tester	Tourist	11	Black-	Represents the typical end-user of the		
	3			box	system. Tests the user interface and features		
				testing	from a tourist's perspective to ensure ease of		
					use, functionality, and relevance.		
•	Tester	Clients	3	Black-	Represents the hotel operators or tourism		
	4			box	service providers. Tests the system's		
				testing	functionalities related to hotel and tourist		
					attraction management to ensure the system		
					meets business needs.		

#### **6.2.2** Test Environment

A testing environment is a setup of a soft and software on which the testing group is going to perform the testing on the Negeri Sembilan Tourism and Hotel Halal Management System. This setup compromises the physical setup which incorporates equipment, and sensible setup that incorporates the Server Operating System, customer working system, database server, front-end running environment, program, or some other programming segments needed to run this product item. This testing setup is to be based on both the end, which is the server, and the customer client.

## **6.2.2.1** Environment Setup

Environment setup is to design and manage the stage for the Negeri Sembilan Tourism and Hotel Halal Management System to guarantee the system can run effectively. **Table 6.2** demonstrates the application workspace for the Negeri Sembilan Tourism and Hotel Halal Management System.

**Table 6.2 Environment Setup Specification** 

<b>Environment Specification</b>	Description
Operating System	Window 11
Processor	Intel(R) Core(TM) i3-8145U CPU @
	2.10GHz 2.30 GHz
Random Access Memory (RAM)	4.00 GB
Database	phpMyAdmin Version 5.2.0
Server Scripting	MySQL

## **6.2.2.2** Software Application

Software application defines about every one of the substances or applications inside the Negeri Sembilan Tourism and Hotel Halal Management System. **Table 6.3** demonstrates all the applications which is relevant to this system.

Table 6.3 Negeri Sembilan Tourism and Hotel Halal Management System

System Application	1. System login
	2. System Registration
	3. Add, update delete, and search in each form or data
	grid view for users

## **6.2.2.3** System Software

System Software consists of tools that have been implemented in the Negeri Sembilan Tourism and Hotel Halal Management System. **Table 6.4** shows all the software involved in this system development.

**Table 6.4 System Software** 

System Software	1. Window 11
MINN	2. Google Chrome
Ma ( ) = : <	3. Incognito

## 6.2.2.4 System Hardware

System hardware is the hardware that is involved in this system development. Table 6.5 shows the related hardware for the development of the Negeri Sembilan Tourism and Hotel Halal Management System.

**Table 6.5 System Hardware Tools** 

System Hardware	Personal computer with hard
	disk, RAM, and processor
	2. Pen Drive

## **6.2.3** Test Schedule

The purpose of the test schedule is to define when and by whom testing activities will be performed. The information gathered for the body of the test game plan is used as a piece of blend with the available asset pool to centre the test schedule. The schedule will give a manual for the planner to do the testing at a certain time accurately along the term of endeavor change. Table 6.6 until Table 6.11 exhibits the test calendar for the customer executive of the system

Table 6.6 Test schedule for Basic System Functionality For all Roles

Module/Component	Activity	Duration	Start	End
			Date	Date
Login	Test login functionality	1 day	1/7/2024	1/7/2024
(A)	for all roles			
Navigation and UI	test system navigation	1 day	1/7/2024	1/7/2024
I ahuul akti	and UI responsiveness	ء سن	اهنه	
Profile Management	Test profile management	1 day	1/7/2024	1/7/2024
NIVERSITI TEI	across all roles	SIA MEI	AKA	

Table 6.7 Test Schedule for Superadmin of Negeri Sembilan Tourism and Hotel Halal Management System

Module/Component	Activity	Duration	<b>Start Date</b>	End Date
View Reports	Test report	4 days	1/7/2024	4/7/2024
	generation,			
	filtering, and data			
	accuracy			
Manage Staff	Test adding,	5 days	5/7/2024	9/7/2024
	updating, and			
	removing staff			
Manage Applicant	Test applicant	5 days	10/7/2024	14/7/2024
	registration and			
	profile management			

Profile Management	Test updating Super	3 days	15/7/2024	17/7/2024
	admin profile			

Table 6.8 Test Schedule for Hotel Verifier of Negeri Sembilan Tourism and Hotel Halal Management System

Module/Component	Activity	Duration	Start Date	End Date
Verify Hotels	Test hotel	4 days	18/7/2024	21/7/2024
	verification process			
	and compliance			
ALAYSIA	check			
Manage Verification	Test	3 days	22/7/2024	24/7/2024
Documents	approval/rejection			
5	of halal certificates			
Profile Management	Test updating Hotel	3 days	25/7/2024	27/7/2024
643	Verifier profile			

Table 6.9 Test Schedule for Web Master of Negeri Sembilan Tourism and Hotel
Halal Management System

Module/Component	Activity	Duration	Start Date	End Date
Verify Hotels	Test hotel	4 days	18/7/2024	21/7/2024
	verification process			
	and compliance			
	check			
Manage Verification	Test	3 days	22/7/2024	24/7/2024
Documents	approval/rejection			
	of halal certificates			
Profile Management	Test updating Hotel	3 days	25/7/2024	27/7/2024
	Verifier profile			

Table 6.10 Test Schedule for Applicant Features (Hotel Applicant, Tour place Applicant) of Negeri Sembilan Tourism and Hotel Halal Management System

Module/Component	Activity	Duration	Start Date	End Date

Hotel Registration	Register hotels	2 Days	28/7/2024	29/7/2024
	and manage			
	details (Hotel			
	Applicant)			
Tour Place	Register tour	2 Days	30/7/2024	1/8/2024
Registration	places (Tour Place			
	Applicant)			
Profile Management	Manage profiles	2 Days	2/8/2024	3/8/2024
	(Hotel & Tour			
. AV	Place Applicant)			
Content	Manage content	2 Days	4/8/2024	5/8/2024
Management	for hotels and tour			
7	places			

Table 6.11 Test Schedule for Tourists of Negeri Sembilan Tourism and Hotel
Management System

Module/Component	Activity	Duration	Start Date	End Date
Tour Place Viewing	View tour places and details	2 Days	6/8/2024	7/8/2024
Hotel Halal Viewing	View hotel halal and details	2 Days	8/8/2024	9/8/2024
Reviews & Ratings	Submit reviews and ratings of tour places	2 Days	10/8/2024	11/8/2024

# 6.3 Test Strategy

A test strategy achieved is a high-level state report ordinarily created by the project manager. This report characterized the "Testing Approach" to accomplish testing goals. The test methodology is regularly obtained from the Business Requirement Specification report.

The test strategy document is static and defines that it is not updated repeatedly. It sets the norms for testing procedures and exercises and different records, for example, the test arrangement draws its substance from those benchmarks set in The Test Strategy Document. There are two sorts of test systems which are:

## i. Top-down Test Strategy

A top-down approach is essentially the breaking down of a system to gain insight into its compositional sub-systems. In a top-down approach an overview of the system is formulated, specifying but not detailing any first-level subsystem. Each subsystem levels, until the specification is reduced to base elements.

# ii. Bottom-up Test Strategy

A bottom-up approach is the piecing together of the system to give rise to a grander system, thus making the original system subsystem if the emergent system. Bottom-up processing is a type of information processing based on incoming data from the environment to form a perception.

#### 6.3.1 Classes of Test

Classes of test are divided into security test, and error handling test.

# i. Error Handling Test

This test is to confirm that The Negeri Sembilan Tourism and Hotel Halal Management System will acknowledge the right data from the clients. The mistake message will show up if users or clients enter wrong address or esteem configuration or fulfil obliged structure.

## **6.3.2** Testing technique

Testing techniques are specific approaches used in software testing to achieve different objectives. These techniques define how the tests are conducted, what is tested, and what the tester focuses on. Below is a more detailed explanation of the main testing techniques:

## i. Black Box Testing

Black Box Testing focuses on evaluating the functionality of the system without considering its internal code structure. Testers use this technique to verify if the software behaves as expected by providing input and observing the output. The goal is to ensure that the system meets the specified requirements.

Black Box Testing is typically applied in functional, system, and user acceptance testing. In the context of the Negeri Sembilan Tourism and Hotel Halal Management System, Black Box Testing would involve validating user roles like tourists, hotel applicants, tour place applicant, and superadmins by interacting with the user interface, testing activities such as hotel registration and review submission, and verifying that the system responds correctly to various inputs.

## ii. White Box Testing

White Box Testing involves testing the internal workings of the software. The tester examines the system's code, logic flow, and structure to ensure that all code paths and functions work correctly. This type of testing is often performed by developers during unit and integration testing. In the system mentioned, White Box Testing could be used to verify individual functions, such as those that handle database interactions or user authentication, by ensuring that the underlying code behaves as expected and handles edge cases properly.

# 6.4 Test Design

Test Design in the demonstration of making and composing test suites for testing programming. There are two sorts of test configuration which are test description and test information.

# **6.4.1** Test Description

Test Description contains the outlined and achieved that complete to recognize the experiment and expected result. An experiment is a record set of the information and working condition needed to run a test thing for expected result. Table 6.12 until Table 6.21 demonstrates the experiments and expected result for every system module or part.

**Table 6.12 System Login Module** 

<b>Test Case ID</b>	TC_01
BACL	
Test Case Name	Login
Actor	Super admin, Web Master, Hotel Verifier, Hotel Applicant, Tour Place Applicant
Description	This test case allows the tester or user to demonstrate the registration user module by following a few test cases and steps. This testing aims for the system to function well with all the possibilities that users might have while logging in.  To start the testing, tester or user needs to:  1. Click "Join us" button at homepage 2. Choose to login as staff or owner place login Then proceed with the following test case.

Test	Description	Step	<b>Expected Result</b>
Case			
TC_01-1	Test LOGIN with	1. Insert Email:	Users with valid
	valid credentials	<email></email>	credentials should be
	(correct email and	2. Insert	successfully logged
	password)	Password:	into the system.
		<password></password>	
		3. Click "Login"	
21 4	(0)	button	
TC_01-2	Test login with	1. Insert Email:	Users with invalid
	invalid credentials	<email></email>	credentials should be
	(incorrect email).	2. Insert	denied access and
		Password:	shown an appropriate
(C)		<pre><password></password></pre>	error message.
JINU		3. Click "Login"	
1.12	1.16	button	
TC_01-3	Test login with	1. Insert Email:	Users with invalid
NIIVEDS	invalid credentials	<email></email>	credentials should be
NIVERS	(incorrect password).	2. Insert	denied access and
		Password:	shown an appropriate
		<password></password>	error message.
		3. Click "Login"	
		button	
TC_01-4	Test login with	1. Click "Login"	The system should
	empty fields.	button	prompt users to fill in
			both email and
			password fields if they
			are empty.

**Table 6.13 Registration Module (Applicant)** 

Test Case ID	TC_02				
<b>Test Case Name</b>	Applicant Registration				
Actor	Hotel Applicant, Tour Place Applicant				
Description	This test case allows the tester or user to demonstrate the				
	registration user module by following a few test cases and				
AVA	steps. This testing aims for the system to function well with all				
WALAYSIA M	the possibilities that users might have while registering as				
	applicant.				
	To start the testing, the tester or user needs to:				
σ, <u> </u>					
¥3//ND	3. Click "Join Us" at the navigation menu bar				
<ul><li>4. Click the "Click for Applicant Page login" button</li><li>5. Click "Register" button</li></ul>					
NIVERSITI T	EKNIKAL MALAYSIA MELAKA				

Test	Description	Step	<b>Expected Result</b>
Case			
TC_02-1	Test registration	1. Fill in all required field	Users should be
	with all required	that has an asterisk (*)	able to register
	fields filled	symbol	successfully when
	correctly.	2. Click "Register"	all required
		button	information is
			provided correctly.
TC_02-2	Test the	1. Fill in all required field	Duplicate
	system's	that has an asterisk (*)	registrations should
	response to	symbol	be prevented with

	duplicate	2. Fill in the email or	proper validation.
	registrations by	identity card number	"An account with
	entering existing	that has been	this email or
	email or identity	registered	identity card
	card numbers.	3. Click the "Register"	number already
		button	exists." Prompt will
			appear
TC_02-3	Test login with	1. Click the "Register"	The system should
	empty fields.	button	prompt users to fill
			in the 'Name' field.
MALA	SIA		"Please fill in this
3	The second second		field" required field
X X X	\$		message will
			appear
TC_02-4	Test the email	1. Fill in all required field	"Please include an
NIVI	without '@'	that has an asterisk (*)	'@' in the email
6/1		symbol	address" required
ب مارت	الله ميس	2. Insert the email field	field message will
INIIVEDO	ITI TEKNIK	without the symbol	appear
NIVERS	DIII IENNIN	AL M'@'LAYSIA MEL	ANA
		3. Click "Register"	
		button	
TC_02-5	Test with wrong	1. Fill in all required field	"Invalid email
	format email	that has an asterisk (*)	format" warning
		symbol	will be appear
		2. Insert the email field	
		without the '.com'	
		format	
		3. Click the "Register"	
TFC 02 1	m .	button	(AD 1
TC_02-6	Test password	1. Fill in all required field	"Password must be
	with all alphabet	that has an asterisk (*)	at least 8 characters
	or numeric		long and include at

			symbol except	least one letter, one
			password	number, and one
		2.	Fill in the password	special character."
			field with all alphabet	Warning will
			or numeric format.	appear
		3.	Click the "Register"	
			button	
TC_02-7	Test registration	1.	Fill in all required field	"Passwords do not
	with		that has an asterisk (*)	match" warning
	mismatched		symbol	will appear.
MALA	password and	2.	Fill in the password	
F. P.	confirmation		field	
	password fields.	3.	Fill the confirm	
			password field with a	
5			different password	
SALIND			than the password	
161		. /	field.	• (
يا مارك	کل ملیس	4.	Click the "Register"	اوينو
			button	
TC_02-8	Test registration	$AL_{1}$	Fill in all required field	"Password must be
	with a short		that has an asterisk (*)	at least 8 characters
	password (less		symbol	long" warning will
	than 8	2.	Fill in the password	appear.
	characters).		below than 8	
			characters	
		3.	Click the "Register"	
			button	
TC_02-9	Test the profile	1.	Fill in all required field	"Sorry, only JPG,
	picture by		that has an asterisk (*)	JPEG, PNG & GIF
	uploading		symbol	files are allowed."
	'.pdf.' file	2.	Upload the Profile	A warning will
			picture form with	appear.
			'.pdf' file.	

			3.	Click the "Register"	
				button	
	TC_02-	Test the	1.	Fill in all required field	An alert will popup
	10	registration		that has an asterisk (*)	to indicate user to
		applicant by		symbol	fill in name with
		entering name	2.	Insert the name field	more than 6
		less than 6		with less than 6	alphabet
		alphabet		alphabet	
			3.	Click the "Register"	
		×		button	
	TC_02-	Test the	1.	Fill in all required field	An alert will pop up
1	11	registration		that has an asterisk (*)	to indicate that the
EK		applicant by		symbol	user to fill in the
-		entering a name	2.	Insert the name field	name with less than
1	50	more than 30		with more than 30	30 alphabet
	NIND	alphabet		alphabet	
5	Mal		3.	Click the "Register"	
			*	button	١٩٠٥
	TC_02-	Test the	1.	Fill in all required field	The register of
U	12	registration		that has an asterisk (*)	applicants will be
		applicant by		symbol	successfully
		uploading a JPG	2.	upload JPG files in the	
		file as a profile		profile picture field.	system.
		picture.	3.	Click the "Register"	
	TC 02	TD 4	4	button	TTI C
	TC_02-	Test the	1.	Fill in all required field	The register of
	13	registration		that has an asterisk (*)	applicants will be
		applicant by	2	symbol	successfully
		uploading a	2.	1	registered into the
		JPEG file as a		the profile picture	system.
		profile picture.	2	field.  Click the "Pagister"	
			3.	Click the "Register" button	
				UULLUII	

TC_02-	Test the	1.	Fill in all required field	The register of
14	registration		that has an asterisk (*)	applicants will be
	applicant by		symbol	successfully
	uploading a	2.	upload PNG files in	registered into the
	PNG file as a		the profile picture	system.
	profile picture.		field.	
		3.	Click the "Register"	
			button	
TC_02-	Test the	1.	Fill in all required field	The register of
15	registration		that has an asterisk (*)	applicants will be
MALA	applicant by		symbol	successfully
E.	uploading a GIF	2.	upload GIF files in the	registered into the
X	file as a profile		profile picture field.	system.
	picture.	3.	Click the "Register"	
10			button	

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

**Table 6.14 Registration Hotel Module (Applicant)** 

Test Case ID	TC_03				
<b>Test Case Name</b>	Registration Hotel Halal				
Actor	Hotel Applicant				
Description	This test case allows the tester or user to demonstrate the				
	registration of the Hotel Halal module by following a few test				
	cases and steps. This testing aims for the system to function				
WALAYSIA W	well with all the possibilities that users might have while Hotel				
	applicants register the hotel halal in the system.				
	To start the testing, the tester or user needs to:				
<b>437/NO</b>	1. Login as hotel Applicant				
2. Homepage of Applicant Hotel display.					
ملسيا ملالا	3. Click the "Register new hotel" button				
**	Then proceed with the following test case.				
NIVERSITI T	EKNIKAL MALAYSIA MELAKA				

Test	Description	Step	<b>Expected Result</b>
Case			
TC_03-	Test hotel	1. Fill in all the fields	The hotel should be
01	registration with	correctly (e.g.:	registered
	all required fields	correct format)	successfully when
	filled correctly.	2. Click "add hotel"	all required
		button.	information is
			provided correctly.
TC_03-2	Test hotel	1. Fill in all the fields	An alert message
	registration with	correctly (e.g.:	"The hotel is
		correct format)	already registered!"

Ī		duplicate	hotel	2.	Insert hotel name	should be
		name.			field that has been	displayed, and the
					registered	registration should
				3.	Click "add hotel"	fail.
					button.	
	TC_03-3	Test	hotel	1.	Fill in all field	The system should
		registration	with		correctly	prompt users to fill
		an empty	hotel	2.	Leave Hotel name	in the 'Hotel Name'
		name field.			field empty.	field with a
				3.	Click the "add hotel"	message: "Please
	MALA	SIA			button.	fill in this field."
100	TC_03-	Test	hotel	1.	Fill in all the fields	The system should
	04	registration	with		correctly except the	display an error
		an invalid	email		email	message: "Please
1	(O)	format (e.g.	,	2.	Insert the email	include an '@' in
	NIVE	missing '@')			without '@'	the email address."
_				3.	Click the "add hotel"	. • (
	بيا مالال	عل ملیس			button.	اوبيؤ
	TC_03-	Test	hotel	1.	Fill in all the fields	The system should
	05	registration	with	AL M	correctly except	prompt users with a
		incorrect	hotel		hotel address field.	message: "Please
		address.		2.	Insert the address	provide a valid
					hotel field with	address."
					random place	
					address.	
				3.	Click "add hotel"	
					button.	
	TC_03-	Test	hotel	1.	Fill in all fields	A prompt message
	06	registration	with		except upload image	will appear to fill in
		no image u	pload		1 until image 5	the blank
		to upload p	icture	2.	Leave the "upload	
		field			picture 1" util	

			"upload picture 5"	
			fields empty	
		1.	Click "add hotel"	
			button.	
TC_03-7	Test hotel	1.	Fill in all field except	A prompt message
	registration with		upload pdf file field	will appear to fill in
	no upload pdf file	2.	Leave the pdf file	the blank and the
	of halal details		empty	user needs to fill in
	or marar actains	3.	Click the "add hotel"	all blank field
		3.	button	an olam nota
TC_03-8	Test hotel halal	1	Fill in all fields	A prompt message
	registration by	••	except picture 1 field	will appear to fill in
	only upload one	2.	Leave the picture 1	the blank and the
-	picture		field empty	user needs to fill in
	1	3.	Click the "add hotel"	all blank field
A JAN			button	
TC_03-9	Test register hotel	1.	Fill in all fields	The hotel
سا مالالا	halal by	ڪند	except picture 1 field	registration is
**	uploading a JPG	2.	Upload JPG files at	successful and the
NIVERS	file as the picture	AL M	the upload picture	user will be
	of the hotel		field	directed to the list
		3.	Click the "add hotel"	of hotel registration
			button	pages.
TC_03-	Test register hotel	1.	Fill in all fields	The hotel
10	halal by		except picture 1 field	registration is
	uploading a JPEG	2.	Upload JPEG files at	successful and the
	file as the picture		the upload picture	user will be
	of the hotel		field	directed to the list
		3.	Click the "add hotel"	of hotel registration
			button	pages.
TC_03-	Test register hotel	1.	Fill in all fields	The hotel
11	halal by		except picture 1 field	registration is
	uploading a PNG			successful, and the

		file as the picture	2.	Upload PNG files at	user will be
		of the hotel		the upload picture	directed to the list
				field	of hotel registration
			3.	Click the "add hotel"	pages.
				button	
7	ГС_03-	Test the	1.	Fill in all fields	an alert will show to
1	12	registered		except the hotel	indicate user to fill
		application by		name field	in name more than
		entering a hotel	2.	Insert hotel name	5 alphabets
		name of less than		less than 5 characters	
	MALA	5 character		in the hotel name	
T.				field	
N N			3.	Click the "add hotel"	
				button	
13	ГС_03-	Test the	1.	Fill in all fields	Al alert will show
1	13 1/ND	registration hotel		except the hotel	to indicate user to
410	1	by entering the	. /	name field	fill in the name less
رلت	با مالا	hotel name of	2.	Insert hotel name	than 50 words
		more than 50		more than 50	
JN	IVERS	words	AL M	characters in the	.AKA
				hotel name field	
			3.	Click the "add hotel"	
				button	

Table 6.15 Update Applicant details Module

Test Case ID	TC_04			
<b>Test Case Name</b>	Update Applicant details			
Actor	Hotel Applicant, Tour Place Applicant			
Description	This test case allows the tester or user to demonstrate the			
	updated applicant details module by following a few test cases			
437	and steps. This testing aims for the system to function well with			
MALAYSIA	all the possibilities that users might have while updating the			
, and the second	applicant's details.			
	To start the testing, the tester or user needs to:			
VINO	Login as a hotel Applicant or tour place applicant			
	2. Homepage of Applicant display.			
ملىسىا مالال	3. Click the "Update profile" button			
40 40	Then proceed with the following test case.			
NIVERSITI T	EKNIKAL MALAYSIA MELAKA			

Test	Description	Steps	<b>Expected Result</b>
Case			
TC_04-1	Test update the user	1. Insert and upload	The Applicant
	details by inserting	all the fields	details will be
	all fields correctly	correctly.	successfully
		2. Click the "Update	updated in the
		Applicant" button	database.
TC_04-2	Test upload the	1. Upload a profile	The system should
	profile picture with	picture image that	show an alert "the
	a file size larger	has size of more	file is too large!"
	than 5Mb.	than 5Mb	

		2.	Click the "Update	that will appear on
			Applicant" button	the screen.
TC_04-3	Test Insert the email with the	1.	Insert the email field with the	The form submission should
	wrong format		wrong email	fail with an error
	(e.g.,: missing '@')		format.	message that
		2.	Click the "Update	indicates the user to
			Applicant" button	fill in the correct email format.
TC_04-4	Test with empty	1.	Leave the phone	The form
- Ar	one of the fields.		number or email	submission should
	\(\frac{}{}\)		field empty.	fail with an error
		2.	Click the "Update	message that
S.			Applicant" button	indicates the user to
ANINO				fill in the empty
LA (		. /		field.
با مالال	بحسل مابيس		مرسیتی س	اوييو
TC_04-5	Test update the	1.	Upload a jpg file as	The Applicant
NIVERS	profile picture by	L MA	a new profile	details will be
	uploading a JPG		picture	successfully
	file	2.	Click the "update	updated in the
			applicant" button	database.
TC_04-6	Test update the	1.	Upload a jpg file as	The Applicant
	profile picture by		a new profile	details will be
	uploading JPEG		picture	successfully
	file	2.	Click the "update	updated in the
			applicant" button	database.
TC_04-7	Test update the	1.	Upload a jpg file as	The Applicant
	profile picture by		a new profile	details will be
	uploading PNG file		picture	successfully
		2.	Click the "update	updated in the
			applicant" button	database.

**Table 6.16 Update hotel details Module** 

TC_05			
Update Hotel details			
Hotel Applicant			
This test case allows the tester or user to demonstrate the update			
hotel details module by following a few tests case and step. To			
start the testing, tester or user needs to:			
Login as hotel Applicant			
2. Homepage of Applicant display.			
3. Click the "hotel details" button			
4. Click the "update" button			
Then proceed with the following test case.			

Test	Description	Step ALAYSIA ME	<b>Expected Result</b>
Case			
TC_05-1	Test insert new	1. Update the field	The user should
	hotel address in	correctly	directly go to the list
	the hotel address	2. Click the "Update	of registered hotels
	field correctly	Hotel" button	pages and see the
			update
TC_05-2	Test the system	1. Delete or remove	The user will notice
	by leaving an	one of the fields to	an alert message that
	empty field	be empty	shows to fill in the
		2. Click the "Update	form.
		Hotel" button	
TC_05-3	Test update	1. Upload an image	The form submission
	details with an	file with a size	should fail with an
	image file	larger than 5Mb	error message

	exceeding the	2.	Click the "add	indicating the image
	maximum		hotel" button.	file size exceeds the
	allowed size			limit.
	which is 5Mb.			
TC_05-4	Test hotel update	1.	Leave the "upload	The hotel will
	with a no-image		picture 1" until the	successfully update
	upload		"upload picture 5"	
			fields are empty	
		2.	Click the "add	
			hotel" button.	
TC_05-5	Test hotel update	1.	Only upload 1	The hotel will
7	with only one		picture in image	successfully update
	image upload		field	
		2.	Click the "update	
S.			hotel" button	
TC_05-6	Test hotel updates	1.	Insert a new email	An alert will show to
101	with using the	. /	but with the wrong	indicate that the user
با مالال	wrong email		format email	to filled in the right
	format (e.g.:	2.	Click the "add hotel	email format
NIVERS	missing '@')	AL M	button", SIA ME	LAKA

**Table 6.17 Search staff Module** 

Test Case ID	TC_06				
Test Case Name	Search staff module				
Actor	Superadmin				
Description	This test case allows the tester or user to demonstrate the				
	Search staff module by following a few tests case and step. To				
AVC	start the testing, tester or user needs to:				
MALAYSIA					
	1. Login as Superadmin				
2. The superadmin page displayed					
	3. Click the "manage staff" at navigation bar menu				
SO,	Then proceed with the following test case.				
SAINO -					

Test	Description	Steps		<b>Expected Result</b>
Case			*	A 1 / A
TC_06-1	Test search by Staff	<b>– V</b> 1.	Insert number or	The list of staff that
	ID		staff ID to search	have same number
			staff at the search	as the search ID
			bar.	will appear
		2.	Click the "search"	
			button	
TC_06-2	Test the search by	1.	Insert the alphabet	No list of staff
	entering alphabet		or staff name at the	appears
	or staff name		search bar.	
		2.	Click the "search"	
			button	
TC_06-3	Test with an empty	1.	Click the "search"	There will be no
	search bar		button	action

Table 6.18 add new staff module

Test Case ID	TC_07			
Test Case Name	Add new staff module			
Actor	Superadmin			
Description	This test case allows the tester or user to demonstrate the add			
ALAYSIA	new staff member module by following a few tests case and			
Y MA M	step. To start the testing, tester or user needs to:			
	1. Login as superadmin			
	2. The superdmin page will appear			
σ <sub>2</sub>	3. Click the "Manage staff" at navigation bar menu			
NO -	4. Click the "add staff" button			
Then proceed with the following test case.				
مليسيا مالال	اويوم سيني بيڪسيڪل			

Test	Description	Step	<b>Expected Result</b>
Case			
TC_07-1	Test registration	1. Fill in all fields	There will be an
	of new staff with	correctly	alert message that
	all required	2. Click "add staff"	shows "new staff
	fields filled	button	successfully
	correctly.		register!" and
			directs to the list of
			staff page
TC_07-2	Test the	1. Fill in all required	"An account with
	system's	fields correctly	this email or
	response to	2. Fill in the email or	identity card
	duplicate	identity card number	number already
	registrations by		

		entering existing		that	has	been	exists." Pron	npt will
		email or identity	registered			appear		
		card numbers.	3.	3. Click the "Add staff"				
				button				
TC_07	7-3	Test add staff	1.	Fill all	and lea	ve one	The system	should
		with empty		of the fi	elds em	pty	prompt user	s to fill
		fields.	2.	Click	"add	staff"	in the 'Name	e' field.
				button			"Please fill	in this
							field" requir	ed field
							message	will
MA	LA						appear	
TC_07	7-4	Test the email	1.	Fill all	field co	orrectly	"Please incl	ude an
<b>X</b>		without '@'		except e	mail fie	eld.	'@' in the	email
			2.	Insert	email	field	address" r	equired
L.O.				without	'@'		field messag	ge will
11/V	۷n		3.	Click	"add	staff"	appear	
6/5/			/	button			. • (	
TC_07	7-5	Test registration	1.	Fill all	field co	orrectly	"Passwords	do not
		with		except p			match" v	varning
MIVE	:KS	mismatched	AL <sub>2</sub> .\	Insert	YSIA	confirm	will appear.	
		password and		passwor	d field	which		
		confirmation		is not t	the sam	e with		
		password fields.		passwor	d field			
			3.	Click	"add	staff'		
				button				
TC_07	7-6	Test registration	1.	Fill all	field co	orrectly	An alert will	show
		with a short		except p	asswor	d field.	"the new	staff
		password (less	2.	Insert pa			successfully	
		than 8		less than		acters	registered!"	and
		characters).	3.	Click	"add	staff"	direct to list	of staff
				button				

TC_07-	7 Test with empty	1. Fill all fields correctly	An alert will show
	profile picture	except the profile	to indicate that the
		picture field.	user to filled in the
		2. Leave the profile	missing field
		picture empty	
		3. Click "add staff"	
		button	
TC_07-	8 Test with insert	1. Fill all fields correctly	An alert will show
	the name field	except the name field	"Please enter name
	with less than 5	2. Insert name less than 5	with more than 5
MAI	alphabet	alphabet	alphabet"
		3. Click "add staff"	
N V	X	button	
TC_07-	9 Test adding staff	1. Fill all fields correctly	An alert will show
5	member with	except the name field	"Please enter name
NIVIE S	insert the name	2. Insert the name more	with less than 20
101	field with more	than 20 alphabet	alphabet"
امالاله	than 20 alphabet	3. Click "add staff"	اويبو
		button	
TC_07-	Test upload	1. Fill all the fields	There will be an
10	image with a	correctly except the	alert message that
	PNG file as a	profile picture field.	shows "new staff
	profile picture	2. Upload PNG files in	successfully
		the profile picture field	register!" and
		3. Click the "add staff"	directs to the list of
		button	staff page
TC_07-	Test upload	1. Fill all the fields	There will be an
11	image with a	correctly except the	alert message that
	JPG file as a	profile picture field.	shows "new staff
	profile picture	2. Upload JPG files in the	successfully
		profile picture field	register!" and
		3. Click the "add staff"	directs to the list of
		button	staff page

TC_07-	Test upload	1. Fill all the fields	There will be an
12	image with a	correctly except the	alert message that
	JPEG file as a	profile picture field.	shows "new staff
	profile picture	2. Upload JPEG files in	successfully
		the profile picture field	register!" and
		3. Click the "add staff"	directs to the list of
		button	staff page

Table~6.19~update~status~hotel~registration~module

Test Case ID	TC_08
Test Case Name	update status hotel registration
Actor	Hotel Verifier
Description	This test case allows the tester or user to demonstrate the update hotel status registration module by following a few tests case and step. To start the testing, tester or user needs to:
NIVERSITI T	<ol> <li>Login as Hotel Verifier staff</li> <li>The Hotel verifier page will appear</li> <li>Click one of the number of hotel application statuses on dashboard homepage</li> <li>The list of hotel status based on status will shown</li> <li>Then proceed with the following test case.</li> </ol>

Test	Description	Step	<b>Expected Result</b>
Case			
TC_08-1	Test update	1. Click the dropdown	Alert message "The
	status by	and choose "pending"	application hotel
	choosing	2. Click the "update"	status has updated!"
	"pending"	button	will shown
TC_08-2	Test update	1. Click the dropdown	Alert message "The
	status by	and choose "accepted"	application hotel
	choosing	2. Click the "update"	status has updated!"
MALA	"accepted"	button	will shown
TC_08-3	Test update	1. Click the dropdown	Alert message "The
	status by	and choose "rejected"	application hotel
	choosing	2. Fill in the remark field	status has updated!"
S.	"rejected" and	3. Click the "update"	will shown
JAINU	fill the remark	button	
TC_08-4	Test update	1. Click the dropdown	An alert message
ب مارد	status by	and choose "rejected"	will pop up for user
\	choosing	2. Fill in the remark field	to fill in the remarks
NIVERS	"rejected" and	3. Click the "update"	.AKA
	leaving the	button	
	remark field		
	empty		

Table 6.20 review module

Test Case ID	TC_09				
<b>Test Case Name</b>	review module				
Actor	Tourist				
Description	This test case allows the tester or user to demonstrate the review				
	module by following a few test cases and steps. To start the				
434	testing, the tester or user needs to:				
MALAYSIA					
	1. At homepage, click the "Tourism" button				
	2. The list of attraction place will shown				
	3. Click the "view details"				
	Then proceed with the following test case.				
SAINU					

Test	Description	Step	الرسيع بيا	<b>Expected Result</b>
Case	NITI TELEVILLE			AIZA
TC_09-1	Test the review	AL <sub>1</sub> .	Insert all field	The review was
	by insert all field		correctly	successful and will
	correctly	2.	Click the "submit	shown at the page
			review" button	
TC_09-2	Test the review	1.	Insert all fields	An alert will popup
	by leave the		correctly except email	to user to fill in the
	email empty		field	form
		2.	Leave the email field	
			empty	
		3.	Click the "submit	
			review" button	
TC_09-3	Test the review	1.	Insert all fields	An alert will show
	by inserting		correctly except the	to user to insert the
			email field	

		wrong email	2.	Insert the email field	correct email	
		format		with the wrong email	format	
				format		
			3.	Click the "submit		
				review" button		
	TC_09-4	Leave the	1.	Insert all fields	An alert will popup	
		review		correctly	to user to fill in the	
		description field	2.	Leave the review	form	
		empty		description blank		
			3.	Click the "submit		
	MALA	(SIA M)		review" button		
100	TC_09-5	Leave the rating	1.	Insert all fields	The review was	
		blank		correctly	successful and will	
			2.	Leave the rating blank	shown at the page	
1	o,		3.	Click the "submit		
	NIVI			review" button		

Table 6.21 Register tour place module

Test Case ID	TC_10KAL MALAYSIA MELAKA
<b>Test Case Name</b>	Register tour place module
Actor	Tour place applicant
Description	This test case allows the tester or user to demonstrate register
	tour place module made by tour place applicant by following
	a few test cases and steps. To start the testing, the tester or user
	needs to:
	Login as tour place applicant
	2. Homepage tour place displayed
	3. Click the "register tour place" button

Then proceed with the following test case.

	Test	Description	Step		<b>Expected Result</b>
	Case				
-	TC_10-	Test tour place	1.	Fill in all the fields	The tour place
	01	application with		correctly (e.g.:	should be registered
		all required fields		correct format)	successfully when
		filled correctly.		Click "add tour	all required
				place" button.	information is
	MALA	SIA			provided correctly.
1	TC_10-	Test tour place	1.	Fill in all the fields	An alert message
	02	registration with		correctly (e.g.:	"The tour place is
		duplicate tour		correct format)	already registered!"
1		place name.	2.	Insert tour place	should be
	AVINU			name field that has	displayed, and the
۱	51		. /	been registered	registration should
	ب مارا	ال مایس	3.	Click "add tour	fail.
	W/EDC	NITI TEIZNIIZ		place" button.	A 1.7.A
	TC_10-	Test tour place		Fill in all field	The system should
	03	registration with		correctly	prompt users to fill
		an empty tour	2.	Leave Hotel name	in the tour place
		place name field.		field empty.	field with a
			3.	Click the "add hotel"	message: "Please
				button.	fill in this field."
	TC_10-	Test tour place	1.	Fill in all the fields	The system should
	04	registration with		correctly except the	display an error
		an invalid email		email	message: "Please
		format (e.g.,	2.	Insert the email	include an '@' in
		missing '@').		without '@'	the email address."
			3.	Click the "add tour	
				place" button.	

TC_10-	Test hotel	1.	Fill in all the fields	The system should
05	registration with		correctly except tour	prompt users with a
	incorrect tour		place address field.	message: "Please
	place address.	2.	Insert the address	provide a valid
			tour place field with	address."
			random place	
			address.	
		3.	Click "add tour	
			place" button.	
TC_10-	Test tour place	1.	Fill in all fields	A prompt message
06 MALAY	registration with		except upload image	will appear to fill in
E. P.	no image upload		1 until image 5	the blank
	to upload picture	2.	Leave the "upload	
	field		picture 1" util	
S)			"upload picture 5"	
SAINO.			fields empty	
		3.	Click "add tour	• (
بيا مالال	کل ملیسا		place" button.	اوييؤ
TC_10-7	Test tour place	1.	Fill in all fields	A prompt message
NIVERS	registration by	AL M	except picture 1 field	will appear to fill in
	only uploading	2.	Leave the picture 1	the blank and the
	one picture		field empty	user needs to fill in
		3.	Click the "add tour	all blank field
			place" button	
TC_10-8	Test register tour	1.	Fill in all fields	The hotel
	place by		except picture 1 field	registration is
	uploading a JPG	2.	Upload JPG files at	successful and the
	file as the picture		the upload picture	user will be
	of the tour place		field	directed to the list
		3.	Click the "add tour	of tour place
			place" button	registration pages.
TC_10-	Test register tour	1.	Fill in all fields	The tour place
09	place by		except picture 1 field	registration is
		_		

	uploading a JPEG	2.	Upload JPEG files at	successful and the	
	file as the picture		the upload picture	user will be	
	of the tour place		field	directed to the list	
		3.	Click the "add tour	of tour place	
			place" button	registration pages.	
TC_10-	Test register tour	1.	Fill in all fields	The hotel	
10	place by		except picture 1 field	registration is	
	uploading a PNG	2.	Upload PNG files at	successful, and the	
	file as the picture		the upload picture	user will be	
	of the hotel		field	directed to the list	
MALA	SIA	3.	Click the "add tour	of tour place	
Z.			place" button	registration pages.	
TC_10-	Test  he	1.	Fill in all fields	An alert will show	
11	registered		except the hotel	to indicate user to	
50	application by		name field	fill in the name field	
SAINO	entering a tour	2.	Insert tour place	more than 5	
12/1	place name of less	. /	name less than 5	alphabet	
يا مالالك	than 5 character		characters in the	اويبو	
			hotel name field		
NIVERS	SITI TEKNIKA	3.	Click the "add tour	AKA	
			place" button		
TC_10-	Test the	1.	Fill in all fields	An alert will show	
12	registration tour		except the tour place	to indicate user to	
	place by entering		name field	fill in the name less	
	the tour place	2.	Insert tour place	than 50 alphabet	
	name of more		name more than 50		
	than 50 words		characters in the tour		
			place name field		
		3.	Click the "add tour		
			place" button		
TC_10-	Test insert less	1.	Fill in all fields	an alert will show to	
13	than 10 words in		except the	indicate user to fill	
			description field		

	the description	2.	Insert the description	in more than 10
	field		of place in less than	words
			10 words	
		3.	Click the "add tour	
			place" button"	
TC_10-	Test insert the	1.	Fill in all the fields	an alert will show to
14	description field		correctly except the	indicate user to fill
	more than 100		description field	in less than 100
	words	2.	Insert the description	words
			of place more than	
MALA	SIA		100 words.	

## 6.4.2 Test Data

The test data is data which has been especially recognized for usage in tests, normally of a PC program. Test data may be recorded for re-use or used once and after that overlooked. Table 6.22 until Table 6.31 shows the test data.

UNIVERSITI TEKN Table 6.22 Test Data Login / ELAKA

Test Data ID	Test Case ID	Test Data				
2000 2000 22	2 000 0 000 22	Email	Password			
TD_01-1	TC_01-1	syu@gmail.com	abc@1234			
TD_01-2	TC_01-2	syu	abc@1234			
TD_01-3	TC-01_3	syu@gmail.com	abcdefg			
TD_01-4	TC-01_4					

**Table 6.23 Test Data Registration Module (Applicant)** 

Test	Test			Test D	ata		
Data ID	Case ID	Name Email		Identity card	password	Confirm	Profile
Dutu ID	Cusc 1D	rvanic	Zinan	luchtity card	passworu	password	picture
TD_02-1	TC_02-1	AISHAH	aishah@	010502-05-	abc@123	abc@1234	img.png
		BINTI	gmail.co	7899	4		
		AHMAD	m				
TD_02-2	TC_02-2	AISHAH	aishah@	990121-05-	xyz@123	xyz@1234	Img2.png
		BALQIS	gmail.co	7856	4		
	MAL	BINTI	m				
		AHMAD					
TD_02-3	TC_02-3	P	Kiki@g	991214-05-	abc@123	abc@1234	Img3.png
1			mail.com	9666	4		
TTD 00 4	TO 00 4	Man Day		010011.05	1 0122	1 01221	T 4
TD_02-4	TC_02-4	MUHD BIN	muhdgm	010314-05-	abc@123	abc@1234	Img4.png
	5/1/2	AHMAD	ai.com	7897	4		
_		ے میں	••	٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠. ٠		<b>9</b> '	
TD_02-5	TC_02-5	MUHD BIN	muhd@g	010314-05-	abc@123	abc@1234	Img4.png
		AHMAD	mail.com	7897	4		
TD_02-6	TC_02-6	MUHD BIN	muhd@g	010314-05-	abcdefg	abcdefg	Img4.png
		AHMAD	mail.com	7897			
TD_02-7	TC_02-7	MUHD BIN	muhd@g	010314-05-	abc@123	xyz@1234	Img4.png
		AHMAD	mail.com	7897	4		
TD_02-8	TC_02-8	MUHD BIN	muhd@g	010314-05-	abc	abc	Img4.png
		AHMAD	mail.com	7897			
TD_02-9	TC_02-9	MUHD BIN	muhd@g	010314-05-	abc@123	abc@1234	File.pdf
		AHMAD	mail.com	7897	4		
TD_02-	TC_02-	MUHD	muhd@g	010314-05-	abc@123	abc@1234	Img.png
10	10		mail.com	7897	4		
TD_02-	TC_02-	MUHD	muhd@g	010314-05-	abc@123	abc@1234	Img.png
11	11	AIMAN	mail.com	7897	4		

		HAFISZUD					
		DINNNNN					
		NNNNNN					
		NNNNNN					
		NN BIN					
		AHMADDD					
		DDDDDDD					
		DDDDDDD					
		DDDDDDD					
		DDDDDDD					
TD_02-	TC_02-	ADI DIN	adi@gm	010314-05-	abc@123	abc@1234	Img.jpg
12	12	AHMAD	ail.com	4561	4		
TD_02-	TC_02-	ADI DIN	adi@gm	010314-05-	abc@123	abc@1234	Img.jpeg
13	13	AHMAD	ail.com	4561	4		
TD_02-	TC_02-	ADI DIN	adi@gm	010314-05-	abc@123	abc@1234	Img.png
14	14 1/NO	AHMAD	ail.com	4561	4		
TD_02-	TC_02-	ADI DIN	adi@gm	010314-05-	abc@123	abc@1234	Img.gif
15	15	AHMAD	ail.com	4561	4"	91	

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

**Table 6.24 Test Data for Hotel Application** 

Test	Test			Test Dat	ta		
Data	Case	Hotel	Place	am a 21	TVI o	Picture	
ID	ID	Name	address	email	File	Picture	•
TD_0	TC_03-		Klana hotel,	Klana@r	Halal.pdf	Picture	1:
3-1	1	Klana	Batu 48,	esort.co		Pic1.png	
		Hotel	74500, Port	m		Picture 2	2 :
			Dickson			pic2.png	
						Picture	3:
	MALAY	SIA				pic3.png	
		W. T.				Picture	4:
KN		P. S.				pic4.png	
1 E	_					Picture	5:
E						pic5.png	
TD_0	TC_03-	Klana	Klana hotel,	Klana@r	Halal.pdf	Picture	1:
3-2	2	Hotel	Batu 50,	esort.co		Pic1.png	
رك ا	سا ما	کا رملت	74500, Port	m	ومرسد	Picture 2	2 :
	**	0	Dickson	0	0 )	pic2.png	
UNI	VERS	TI TEK	NIKAL M	ALAYSI	A MEL	Picture	3:
						pic3.png	
						Picture	4:
						pic4.png	
						Picture	5:
						pic5.png	
TD_0	TC_03-		Klana hotel,	Klana@r	Halal.pdf	Picture	1:
3-3	3		Batu 50,	esort.co		Pic1.png	
			74500, Port	m		Picture 2	2 :
			Dickson			pic2.png	
						Picture	3:
						pic3.png	
						Picture	4:
						pic4.png	

						Picture		5:
						pic5.png		
TD_0	TC_03-	771	Klana hotel,	Klanares	Halal.pdf	Picture		1:
3-4	4	Klana	Batu 50,	ort.com		Pic1.png		
		Hotel	74500, Port			Picture	2	:
			Dickson			pic2.png		
						Picture		3:
						pic3.png		
						Picture		4:
						pic4.png		
	MALAY	SIA				Picture		5:
T.		THE PARTY OF THE P				pic5.png		
TD_0	TC_03-	Klana	Klana hotel,	Klana@r	Halal.pdf	Picture		1:
3-5	5	Hotel	Port Dickson	esort.co		Pic1.png		
1		Hotel		m		Picture	2	:
	MIND					pic2.png		
416	A (			40		Picture		3:
2)	مليسيا ما	ئل مليہ		ی سح	ۆس سىي	pic3.png		
				•		Picture		4:
UNI	VERS	TI TEK	NIKAL MA	ALAYSI	A MEL	pic4.png		
						Picture		5:
						pic5.png		
TD_0	TC_03-	Klana	Klana hotel,	Klana@r	Halal.pdf			
3-6	6	Hotel	Port Dickson	esort.co				
				m				
TD_0	TC_03-	Klana	Klana hotel,	Klana@r		Picture		1:
3-7	7	Hotel	Port Dickson	esort.co		Pic1.png		
				m		Picture	2	:
						pic2.png		
						Picture		3:
						pic3.png		
						Picture		4:
						pic4.png		

						Picture		5:
						pic5.png		
TD_0	TC_03-	Klana	Klana hotel,	Klana@r	Halal.pdf	Picture		1:
3-8	8	Hotel	Port Dickson	esort.co		pic1.png		
		110101		m		Picture 2:		
						Picture 3:		
						Picture 4:		
						Picture 5:		
TD_0	TC_03-		Klana hotel,	Klana@r	Halal.pdf	Picture		1:
3-9	9	Klana	Batu 48,	esort.co		Pic1.jpg		
	MALAY,	Hotel	74500, Port	m		Picture	2	:
T. C.		THE P	Dickson			pic2.jpg		
EKN		XA				Picture		3:
F						pic3.jpg		
						Picture		4:
	MIND					pic4.jpg		
4 %	A (	( )				Picture		5:
2)	سيا ما	ئل ملیہ		ى بىھ	ومرسي	pic5.jpg		
TD_0	TC_03-		Klana hotel,	Klana@r	Halal.pdf	Picture		1:
3-10	10 RS	Klana	Batu 48,	esort.co	A MEL	Pic1.jpeg		
		Hotel	74500, Port	m		Picture	2	:
			Dickson			pic2.jpeg		
						Picture		3:
						pic3.jpeg		
						Picture		4:
						pic4.jpeg		
						Picture		5:
						pic5.jpeg		
TD_0	TC_03-		Klana hotel,	Klana@r	Halal.pdf	Picture		1:
3-11	11	Klana	Batu 48,	esort.co		Pic1.png		
		Hotel	74500, Port	m		Picture	2	:
			Dickson			pic2.png		

	Picture	3:
	pic3.png	
	Picture	4:
	pic4.png	
	Picture	5:
	pic5.png	
TD_0 TC_03- Klana hotel, Klana@r Halal.pdf	Picture	1:
3-12   12   hihi   Batu   48, esort.co   1	Pic1.png	
74500, Port m	Picture 2	:
Dickson	pic2.png	
MALAYSIA	Picture	3:
	pic3.png	
	Picture	4:
	pic4.png	
	Picture	5:
S NINO	pic5.png	
TD_0 TC_03- hihihihih Klana hotel, Klana@r Halal.pdf	Picture	1:
3-13 13 ihihihihi Batu 48, esort.co	Pic1.png	
hihihihih 74500, Port m	Picture 2	:
UN VERS ihihihihi Dickson MALAYS A MEL	pic2.png	
hihihihih	Picture	3:
ihihihihi	pic3.png	
hihihihih	Picture	4:
ihihihihi	pic4.png	
hihihihih	Picture	5:
ihihihihi	pic5.png	
hihihihih		
ihihihii		
hihihih		
hihihihi ihihihii		

Table 6.25 Test Data for Update Applicant details

Test	Test	Test Data		
Data ID	Case ID	Profile Picture	Phone Number	Email
TD_04-	TC_04-	Img.png	014-	john@gmail.com
1	1	(4MB)	8569566	
TD_04-	TC_04-	Img.png		
2	2	(6MB)		
TD_04-	TC_04-	Img.png		
3AYSIA	3	(4MB)		
TD_04-	TC_04-			johngmail.com
4	4			
TD_04-	TC_04-	Img.jpg		
5	5	(4MB)		\
TD_04-	TC_04-	Img.jpeg		
6	6	(4MB)		•
TD_04-	TC_04-	Img.png	رسىخ	اويوم
7* **	7	(4MB)	):	

Table 6.26 Test Data for update hotel details module

Test	Test	Test D	ata					
Data	Case	Hote	Hotel	email	Phone	file	Picture	
ID	ID	1	address		numbe			
		nam			r			
		e						
TD_0	TC_0	Maw	Mawar	mawar	0-	Halal.p	Picture	1:
5-1	5-1	ar	Hotel,	@gmail.	789566	df	pic1.png	
		Hotel	sikamat,71	com	6		Picture	2:
			000				pic2.png	
			seremban,				Picture	3:
			Negeri				pic3.png	
			Sembilan					

								picture	4:
								pic4.png	
								picture	5:
								pic5.png	
•	TD_0	TC_0	Maw	Mawar	mawar		Halal.p	Picture	1:
	5-2	5-2	ar	Hotel,	@gmail.		df	pic1.png	
			Hotel	sikamat,71	com			Picture	2:
				000				pic2.png	
				seremban,				Picture	3:
				Negeri				pic3.png	
	MA	AYSIA	4.	Sembilan				picture	4:
11 0								pic4.png	
EKZ			KA					picture	5:
F								pic5.png	
1	TD_0	TC_0						Picture	1:
	5-3	5-3						pic1.png	
4	16.1						•	(6MB)	
	مالال		کل ما		- U	راسيخ	وبيؤم	Picture 2	):
						•		-Picture	3:
J	AIVE	RSITI	TEK	NIKAL N	IALAY;	SIA ME	ELAKA	picture 4	:
								picture 5	:
	TD_0	TC_0	Maw	Mawar	mawar	0-	Halal.p		
	5-4	5-4	ar	Hotel,	@gmail.	789566	df		
			Hotel	sikamat,71	com	6			
				000					
				seremban,					
				Negeri					
				Sembilan					
	TD_0	TC_0						Picture	1:
	5-5	5-5						pic1.png	
	TD_0	TC_0			mawarg				
	5-6	5-6			mail.co				
					m				
L			i .	1	i	i			

**Table 6.27 Test Data for Search Staff** 

Test Data ID	Test Case ID	Test Data
		Search ID
TD_06-1	TC_06-1	11
TD_06-2	TC_06-2	Ahmad
TD_06-3	TC_06-2	

Table 6.28 Add new staff

Y			Test Data					
I	Γest Data D	Test Case ID	Name	Email	Ident ity card numb	Passwo rd	Confir m Passwo rd	Profil e pictur e
	ΓD_	TC_	SARAH	sarah@gmail	01051	123456	123456	Img.p
	- )7-1	07-1	BINTI	.com	4-05-	789	789	ng
N	IVE		AHMAD	AL MALA	7898	MELA	KA	8
7	Γ <b>D</b> _	TC_	SITI	sarah@gmail	01017	123456	123456	Img.p
0	7-2	07-2	SARAH	.com	-05-	789	789	ng
			BINTI		6966			
			AHMAD					
]	ГС_	TC_	ADI BIN		01031	123456	123456	Img.p
0	7-3	07-3	AHMAD		7-05-	789	789	ng
					9887			
7	ΓC_	TC_	ADI BIN	Adigmail.co	01031	123456	123456	Img.p
0	7-4	07-4	AHMAD	m	7-05-	789	789	ng
					9887			
7	ГС_	TC_	ADI BIN	Adi@gmail.c	01031	123456	abcdefg	Img.p
0	7-5	07-5	AHMAD	om	7-05-	789		ng
					9887			

TC_	TC_	ADI BIN	Adi@gmail.c	01031	1234	1234	Img.p
07-6	07-6	AHMAD	om	7-05-	1231	1231	
07-0	07-0	AIIWAD					ng
				9887			
TC_	TC_	ADI BIN	Adi@gmail.c	01031	123456	123456	
07-7	07-7	AHMAD	om	7-05-	789	789	
				9887			
TC_	TC_	ADI	Adi@gmail.c	01031	123456	123456	Img.p
07-8	07-8		om	7-05-	789	789	ng
				9887			
TC_	TC_	ADII	Adi@gmail.c	01031	123456	123456	Img.p
07-9	07-9	AIMAN	om	7-05-	789	789	ng
		IZZAT		9887			
		NASEEM					
		BIN					
S		AHMAD					
SPIIN		HAFISZUD					
1		DIN				- 1	
مالال	سب	NUQMAN	ي كني	ىنى د	ۇ بىر س	اود	
	••	DANIEL	••				
TC	TC_	SARAH	sarah@gmail	01051	123456	123456	Img.p
07-10	07-10	BINTI	.com	4-05-	789	789	ng
		AHMAD		7898			8
TC_	TC_	SARAH	sarah@gmail	01051	123456	123456	Img.jp
07-11	07-11	BINTI	.com	4-05-	789	789	g
0, 11	07 11	AHMAD	.com	7898	707	707	5
TC_	TC_	SARAH	sarah@gmail	01051	123456	123456	Imain
							Img.jp
07-12	07-12	BINTI	.com	4-05-	789	789	eg
		AHMAD		7898			

Table 6.29 Test data for update hotel application status

Test Data ID	Test case ID	Test Data		
		Status	Remarks	
TD_08-1	TC_08-1	Pending		
TD_08-2	TC_08-2	Accepted		
TD_08-3	TC_08-3	Rejected	Invalid Halal file	
TD_08-4	TC_08-4	Rejected		

Table 6.30 Test data for review place

		Test Data	Test Data					
Test Data ID	Test Case ID	Email	Review Description	Rating				
TD_09-1	TC_09-1	siti@gmail.com	Best place	5				
TD_09-2	TC_09-2		Good	5				
TD_09-3	TC_09-3	Adigmail.com	Good	5				
TD_09-4	TC_09-4	adi@gmail.com	يبوم سير	5				
TD_09-5	TC_09-5	adi@gmail.com	good	_				

Table 6.31 Test data for register tour place

Test	Test		Test Data					
Data ID	Case ID	Tour place Name	Place address	email	Description	Picture		
TD_1	TC_10-		Klana	Klana	Klana sanctuary	Picture 1:		
0-1	1	Klana	Santuary,	@gma	is a place with	Pic1.png		
		sanctuar	Batu 48,	il.com	lots of animal	Picture 2 :		
		у	74500, Port		and insect that	pic2.png		
			Dickson		suitable for	Picture 3:		
					every family and	pic3.png		
					kids	Picture 4:		
						pic4.png		

						Picture 5:
						pic5.png
TD_1	TC_10-		Klana	Klana	Klana sanctuary	Picture 1:
0-2	2	Klana	Santuary,	@gma	is a place with	Pic1.png
		sanctuar	Batu 48,	il.com	lots of animal	Picture 2:
		y	74500,		and insect that	pic2.png
			rembau		suitable for	Picture 3:
					every family and	pic3.png
					kids	Picture 4:
						pic4.png
	MALAY	SIA				Picture 5:
FE		The second second				pic5.png
TD_1	TC_10-	S	Klana	Klana	Klana sanctuary	Picture 1:
0-3	3		Santuary,	@gma	is a place with	Pic1.png
			Batu 48,	il.com	lots of animal	Picture 2:
	MIND		74500, Port		and insect that	pic2.png
416	A (		Dickson	••	suitable for	Picture 3:
2)	سيا ما	ئل مليب		<b>3</b> 0	every family and	pic3.png
					kids	Picture 4:
UNI	VERS	TITEK	NIKAL MA	ALAY:	SIA MELAK	pic4.png
						Picture 5:
						pic5.png
TD_1	TC_10-		Klana	Klana	Klana sanctuary	Picture 1:
0-4	4	Klana	Santuary,	gmail.	is a place with	Pic1.png
		sanctuar	Batu 48,	com	lots of animal	Picture 2:
		У	74500, Port		and insect that	pic2.png
			Dickson		suitable for	Picture 3:
					every family and	pic3.png
					kids	Picture 4:
						pic4.png
						Picture 5:
						pic5.png

TD_1	TC_10-		sdsdsd	Klana	Klana sanctuary	Picture 1:
0-5	5	Klana		@gma	is a place with	Pic1.png
		sanctuar		il.com	lots of animal	Picture 2 :
		у			and insect that	pic2.png
					suitable for	Picture 3:
					every family and	pic3.png
					kids	Picture 4:
						pic4.png
						Picture 5:
						pic5.png
TD_1	TC_10-	SIA M	Klana	Klana	Klana sanctuary	
0-6	6	Klana	Santuary,	@gma	is a place with	
EKA		sanctuar	Batu 48,	il.com	lots of animal	
F		У	74500,		and insect that	
10		,	rembau		suitable for	
	MIND				every family and	
6/4	A (	( )	/	•	kids	1
TD_1	TC_10-	ال مانيا	Klana	Klana	Klana sanctuary	Picture 1:
0-7	7	Klana	Santuary,	@gma	is a place with	Pic1.png
UNI	VERS	sanctuar	Batu 48,	il.com	lots of animal	Picture 2 :
		У	74500,		and insect that	Picture 3:
			rembau		suitable for	Picture 4:
					every family and	Picture 5:
					kids	
TD_1	TC_10-		Klana	Klana	Klana sanctuary	Picture 1:
0-8	8	Klana	Santuary,	@gma	is a place with	Pic1.jpg
		sanctuar	Batu 48,	il.com	lots of animal	Picture 2:
		У	74500,		and insect that	pic2.jpg
			rembau		suitable for	Picture 3:
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		У	74500,		and insect that	pic2.png
			rembau		suitable for	Picture 3:
					every family and	pic3.png
					kids	Picture 4:
						pic4.png
						Picture 5:
						pic5.png

TD_1	TC_10-		Klana	Klana	Klana sanctuary	Picture	1:
0-12	12	Klana	Santuary,	@gma	is a place with	Pic1.png	
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		sanctuar	74500,		and insect that	pic2.png	
		y Klana	rembau		suitable for	Picture	3:
		klana			every family and	pic3.png	
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		y Klana				pic4.png	
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TD_1	TC_10-		Klana		Klana	Klana sanctuary	Picture	1:
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		sanctuar	Batu	48,	il.com	lots of animal	Picture 2	:
		у	74500,			and insect that	pic2.png	
			rembau			suitable for	Picture	3:
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2)	میا ما	ىل مايى			<b>3</b> 0	kids	91	
						Klana sanctuary		
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						lots of animal		
						and insect that		
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						Klana sanctuary		
						is a place with		
						lots of animal		
						and insect that		
						suitable for		
						every family and		
						kids		

## 6.4.3 Test Result and Analysis

This area defines the output of every test performed for the Negeri Sembilan Tourism and Hotel Halal Management System. Tests at every level ought to incorporate check of access control and system gauges, usefulness, and slip forms. Table 6.32 until table 6.41 demonstrate the test outcome and investigation.

Table 6.32 Test Result and Analysis for Login Module

Module/Component: Login		Result			
Test Case ID	Test Data ID	Description	Pass	Failed	
TC_01-1	TD_01-1	valid username and	$\sqrt{}$		
	The state of the s	password			
TC_01-2	TD_01-2	invalid incorrect username	V		
TC-01_3	TD_01-3	invalid incorrect username	V		
TC-01_4	TD_01-4	empty fields.	V		

Table 6.33 Test Result and Analysis for Registration Applicant

Module/Component:  Registration applicant		Result MALAYSIA MELAKA				
Test Case ID	Test Data ID	Description	Pass	Failed		
TC_02-1	TD_02-1	Fill required field correctly.	$\sqrt{}$			
TC_02-2	TD_02-2	Fill the required field by	V			
		entering existing email or				
		identity card number.				
TC_02-3	TD_02-3	empty fields.	V			
TC_02-4	TD_02-4	Test the email without '@'	$\sqrt{}$			
TC_02-5	TD_02-5	Fill the email without '.com'	$\sqrt{}$			
TC_02-6	TD_02-6	Fill password with all	V			
		alphabet or numeric				
TC_02-7	TD_02-7	Test with mismatch	<b>√</b>			
		password				

TC_02-8	TD_02-8	Fill the password with less	$\sqrt{}$
		than 8 characters	
TC_02-9	TD_02-9	Upload profile picture with	√
		file format	
TC_02-10	TD_02-10	Fill in the name form with	√
		less than 6 alphabet	
TC_02-11	TD_02-11	Enter name more than 30	√
		alphabet	
TC_02-12	TD_02-12	Upload JPG file as profile	√
1 AVO		picture	
TC_02-13	TD_02-13	Upload JPEG file as profile	√
	THE PARTY OF THE P	picture	
TC_02-14	TD_02-14	Upload PNG file as profile	<b>√</b>
		picture	
TC_02-15	TD_02-15	Upload GIF file as profile	$\sqrt{}$
NIVI -		picture	

Table 6.34 Test Result and Analysis for Hotel Registration

Module/Compo	onent: Hotel	Result Result			
Test Case ID	Test Data ID	Description	Pass	Failed	
TC_03-1	TD_03-1	all required fields were filled correctly.	V		
TC_03-2	TD_03-2	Test hotel registration with duplicate hotel name.	V		
TC_03-3	TD_03-3	Empty hotel name field.	V		
TC_03-4	TD_03-4	invalid email format (e.g., missing '@').	V		
TC_03-5	TD_03-5	Incorrect hotel address	V		
TC_03-6	TD_03-6	No image upload	V		
TC_03-7	TD_03-7	No file halal upload	V		
TC_03-8	TD_03-8	Upload only one picture	V		

TC_03-9	TD_03-9	Upload picture as JPG file	$\sqrt{}$	
TC_03-10	TD_03-10	Upload picture as JPEG file	$\sqrt{}$	
TC_03-11	TD_03-11	Upload picture as PNG file	$\sqrt{}$	
TC_03-12	TD_03-12	Enter hotel name less than 5	$\sqrt{}$	
		character		
TC_03-13	TD_03-13	Enter hotel name more than	V	
		50 words		

Table 6.35 Test Result and Analysis for Update Applicant Details Module

Module/Compo	onent: update	Result			
Test Case ID	Test Data ID	Description	Pass	Failed	
TC_04-1	TD_04-1	Insert all fields correctly	V		
TC_04-2	TD_04-2	Upload a file size of more	V		
d'il		than 5MB as a profile			
N/N/I		picture.	• (		
TC_04-3	TD_04-3	Insert the wrong email	ا و لا		
••		format			
TC_04-4	TD_04-4	Test with an empty field			
TC_04-5	TD_04-5	Upload JPG file as profile	$\sqrt{}$		
		picture			
TC_04-6	TD_04-6	Upload JPEG file as profile	$\sqrt{}$		
		picture			
TC_04-7	TD_04-7	Upload PNG file as profile	<b>V</b>		
		picture			

Table 6.36 Test result and analysis for Update hotel details module

Module/Component: update hotel details		Result			
Test Case ID	Test Data ID	Description	Pass	Failed	
TC_05-1	TD_05-1	Insert all fields correctly	V		
TC_05-2	TD_05-2	Empty one field.	V		
TC_05-3	TD_05-3	Upload image file more than	V		
		5MB size			
TC_05-4	TD_05-4	Test with no image upload	V		
TC_05-5	TD_05-5	Upload only one image	V		
TC_05-6	TD_05-6	Use wrong format email	V		

Table 6.37 Test result and analysis for search staff module

Module/Compostaff	onent: Search	Result	امنیا	
Test Case ID	Test Data ID	<b>Description</b>	Pass	Failed
TC_06-1	TD_06-1	Search staff by number or ID	AKA	
TC_06-2	TD_06-2	Enter alphabet or staff name	1	
TC_06-3	TD_06-3	Test with an empty search	1	
		bar		

Table 6.38 test result and analysis for add new staff module

Module/Component: add new staff		Result				
Test Case ID	Test Data ID	Description	Pass	Failed		
TC_07-1	TD_07-1	all required fields were filled	V			
		correctly.				
TC_07-2	TD_07-2	Insert email or identity card	V			
		number that already exist				

TC_07-3	TD_07-3	Test register staffwith an	$\sqrt{}$
		empty field	
TC_07-4	TD_07-4	invalid email format (e.g.,	$\sqrt{}$
		missing '@').	
TC_07-5	TD_07-5	Mismatch password and	<b>√</b>
		confirmation password field	
TC_07-6	TD_07-6	Insert password less than 8	$\sqrt{}$
		characters	
TC_07-7	TD_07-7	Empty profile picture	√
TC_07-8	TD_07-8	Enter name field less than 5	$\sqrt{}$
MALAYSIA	142	alphabet	
TC_07-9	TD_07-9	Enter name field more than	<b>√</b>
	Š	20 alphabet	
TC_07-10	TD_07-10	Upload picture as PNG file	<b>V</b>
TC_07-11	TD_07-11	Upload picture as PNG file	<b>V</b>
TC_07-12	TD_07-12	Upload picture as JPEG file	<b>√</b>

Table 6.39 Test result and analysis of updated status hotel application

Module/Component: update status hotel application		Result Result		
Test Case ID	Test Data ID	Description	Pass	Failed
TC_08-1	TD_08-1	Choose "pending" status	V	
TC_08-2	TD_08-2	Choose "accepted" status	$\sqrt{}$	
TC_08-3	TD_08-3	Choose "reject" status and fill in remarks	V	
TC_08-4	TD_08-4	Choose "reject" status and leave blank remarks field		

Table 6.40 Test result and analysis of review

Module/Component: review		Result		
Test Case ID	Test Data ID	Description	Pass	Failed
TC_09-1	TD_09-1	Insert all fields correctly	V	
TC_09-2	TD_09-2	Leave the email empty	$\checkmark$	
TC_09-3	TD_09-3	Insert the wrong email	$\sqrt{}$	
		format		
TC_09-4	TD_09-4	Leave blank the description	$\sqrt{}$	
MALAYSIA		field		
TC_09-5	TD_09-5	Leave the rating blank	1	

Table 6.41 Test result and analysis of register tour place module

Module/Component: register tour place		Result		
Test Case ID	Test Data ID	Description	Pass	Failed
TC_10-1	TD_10-1	all required fields were filled	1	
NIVERSITI	TEKNIKA	correctly.	ΔΚΔ	
TC_10-2	TD_10-2	Test hotel registration with	$\sqrt{}$	
		duplicate tour place name.		
TC_10-3	TD_10-3	Empty tour place name	$\sqrt{}$	
		field.		
TC_10-4	TD_10-4	invalid email format (e.g.,	$\sqrt{}$	
		missing '@').		
TC_10-5	TD_10-5	Incorrect tour place address	V	
TC_10-6	TD_10-6	No image upload	V	
TC_10-7	TD_10-7	Upload only one picture	V	
TC_10-8	TD_10-8	Upload picture as JPG file	V	
TC_10-9	TD_10-9	Upload picture as JPEG file	V	
TC_10-10	TD_10-10	Upload picture as PNG file	V	
TC_10-11	TD_10-11	Enter tour place name less	$\sqrt{}$	
		than 5 character		

TC_10-12	TD_10-12	Enter hotel name more than	V	
		50 character		
TC_10-13	TD_10-13	Insert description field less	<b>V</b>	
		than 10 words		
TC_10-14	TD_10-14	Insert description field more	$\sqrt{}$	
		than 100 words		

## 6.5 Usability Testing

The usability testing approach for the system involved gathering feedback through a Google Form survey, allowing users to share their experiences and insights after interacting with the system. This method is a user-centric approach designed to evaluate the effectiveness, efficiency, and overall satisfaction of users as they navigate the system. By utilizing a Google Form, the feedback collection was streamlined, accessible, and easy for users to participate in.

Users were likely asked to reflect on various aspects of their experience, such as the ease of use, navigation, interface design, and any challenges they encountered. This feedback helps identify potential areas for improvement, ensuring that the system meets the users' needs and expectations. The Google Form provided structured questions, which allowed for both quantitative data (e.g., ratings) and qualitative data (e.g., comments), giving a comprehensive view of user satisfaction and areas that may require enhancement.

This approach helps to gather real-world insights directly from the end-users, providing valuable data to refine and optimize the system. The feedback collected through the form is essential for making data-driven decisions to improve usability and enhance the user experience.

## **6.5.1** User Acceptance testing

User Acceptance Testing (UAT) is the final phase of the software testing process, where real users test the system to ensure it meets their requirements and functions as expected in real-world scenarios. UAT is conducted after all other testing

phases (like unit, integration, and system testing) have been completed, and it typically involves end-users or stakeholders who will be using the software in their daily operations.

For the Negeri Sembilan Tourism and Hotel Halal Management System, User Acceptance Testing (UAT) would involve evaluating the system from the perspective of its real-world users, which may include administrators, hotel operators, and tourists. This testing phase is crucial to ensure that the system fulfills its intended purpose of managing halal-certified hotels and tourist attractions in Negeri Sembilan.

#### 6.5.1.1 Criteria and Factor

In the User Acceptance Testing (UAT) of the Negeri Sembilan Tourism and Hotel Halal Management System, several key factors have been considered to ensure the system meets the expectations and needs of its users. Here is a general explanation of each factor:

## 1. Security

Security is a critical factor in ensuring that the system protects user data and sensitive information. For this system, security measures might involve encryption, secure authentication protocols, and role-based access control, ensuring that only authorized users can perform specific actions, such as managing hotel data or user accounts.

#### 2. Ease of use

Ease of use refers to how intuitive and user-friendly the system is for end-users. This involves the design of the interface, the simplicity of navigation, and the overall user experience. A system with high ease of use allows users to accomplish their tasks efficiently without extensive training or frustration. This is essential for a tourism and hotel management system where users might include tourists, hotel staff, and administrators with varying levels of technical expertise.

#### 3. Usefulness

Usefulness measures how well the system meets the practical needs of its users. For a system to be useful, it must provide valuable features and functionalities that align with the objectives of its users. In the context of this system, it could involve effectively listing halal-certified hotels, tourist attractions, and providing relevant information that supports the tourism and hospitality industry in Negeri Sembilan. If the system helps users achieve their goals, it is considered useful

## 4. Self-efficacy

Self-efficacy relates to the confidence users have in their ability to use the system effectively. It addresses the extent to which users believe they can complete tasks successfully without assistance. A system that promotes self-efficacy empowers users by providing clear instructions, help features, and feedback, allowing them to feel capable and competent while using the system. This can be particularly important in ensuring that users do not feel overwhelmed by the technology.

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Attitude refers to the overall perception and feelings that users have toward the system. Positive attitudes are cultivated by a system that not only works efficiently but also provides a pleasant user experience. Factors that influence attitude include the system's design, responsiveness, reliability, and how it meets user expectations. A positive attitude toward the system can lead to greater user satisfaction, higher adoption rates, and more consistent use.

## 6.5.2 Questionnaire and result of UAT

The User Acceptance Testing (UAT) for the Negeri Sembilan Tourism and Hotel Halal system involved collecting feedback from end-users to assess the system's effectiveness and gather insights on user experience. To achieve this, a Google Form was used to solicit responses from 15 participants. This approach aimed to evaluate various aspects of the system's performance and user satisfaction.

The questionnaire system was conducted to gather detailed feedback from three distinct user groups: tourists, hotel and tour place applicants, and staff members. Each user group was given a set of tailored questions designed to reflect their specific interactions with the system. For tourists, questions focused on the ease of finding and viewing halal hotels and tourist attractions. Hotel and tour place applicants were asked about the registration process, including the usability of forms and clarity of instructions. Staff members provided feedback on administrative functions such as managing applications and updating statuses.

Figure 6.1 until Figure 6.3 show the summary of the age, gender, and user category of respondent who run the system and give their feedback based on their experience.

The bar chart in Figure 6.1 shows the age distribution of 15 respondents to a questionnaire. The majority of respondents are 23 years old (60%), followed by a small number of respondents in each of the other age groups (19, 23, 24, 26, 30, and 35). This indicates that the questionnaire was completed by a relatively young group of individuals, with a significant concentration in the early twenties. However, the data also suggests a diverse age range among the participants, as there are respondents from several different age groups.

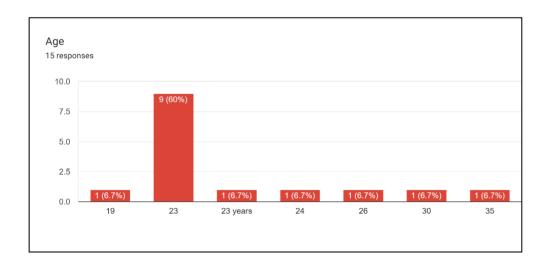


Figure 6.1 Graph of respondents' age

The pie chart in Figure 6.2 illustrates the gender distribution of 15 respondents to a questionnaire. 60% equivalent to 9 people of the respondents identified as female, while 40% or 6 people identified as male. This indicates a slightly higher proportion of female participants compared to male participants in the survey.

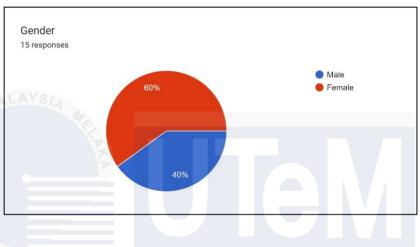


Figure 6.2 Pie chart of Gender

The pie chart in Figure 6.3 represents the distribution of respondents based on their roles in the system's User Acceptance Testing (UAT). Out of 15 total respondents, the majority were tourists, accounting for 73.3% (11 respondents). Applicants or hotel/place owners comprised 20% of the respondents (3 respondents), while staff members made up the smallest group at 6.7% (1 respondent). This data highlights that the primary users of the system are tourists, followed by applicants, with minimal participation from staff members in the testing phase. The feedback gathered from these groups helps ensure that the system meets the needs of its diverse user base effectively.

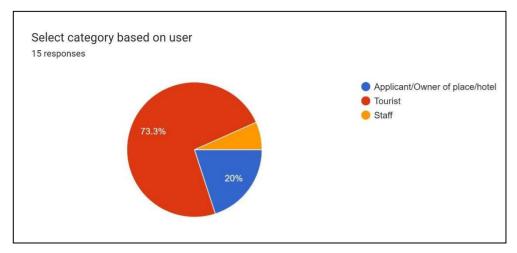


Figure 6.3 pie chart based on category user



#### **6.5.2.1** Tourist

For the tourist questionnaire, there were 5 questions in total. Out of these, 4 were multiple-choice questions, and 1 was an open-ended question requiring a detailed response. The questionnaire received 11 responses specifically from tourists. This survey aimed to gather comprehensive feedback on various aspects of the Negeri Sembilan Tourism and Hotel Halal Management System from the tourist perspective, including ease of use, overall satisfaction, and suggestions for improvement. Figure 6.5 until figure 6.7 are the result from 11 respondents.

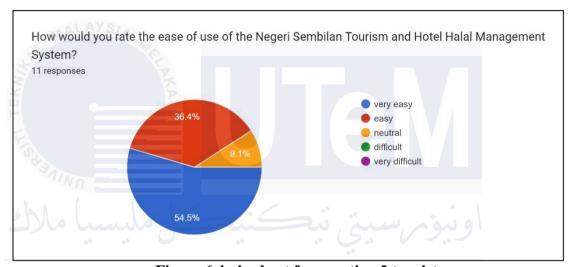


Figure 6.4 pie chart for question 2 tourist

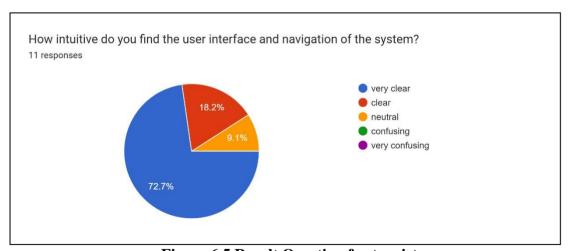


Figure 6.5 Result Question for tourist

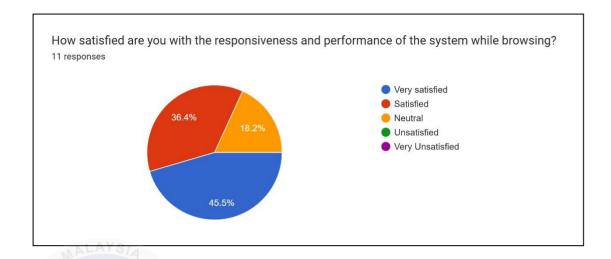


Figure 6.6 pie chart question 3 touris

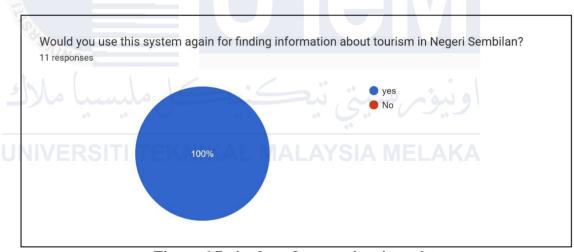


Figure 6.7 pie chart for question 4 tourist

What features or improvements would you like to see in the system for a better user experience?

8 responses

everything okey

Insert Augmented Reality (AR) elements to introduce the places

It will be interesting in the future the system show and suggest the best restaurant popular in N9

maybe Google maps yang 3D tu

Good

hope can improve then better

None

Update the system

Figure 6.8 open question for tourist

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### 6.5.2.2 Hotel / Tour Place applicant

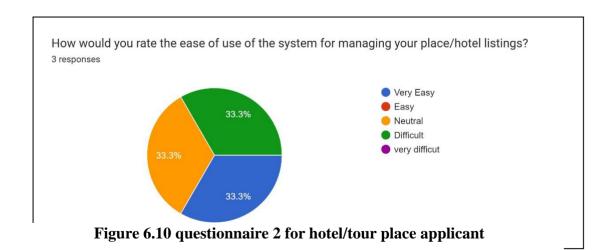
For the hotel/tour place applicant questionnaire, there were 5 questions in total. Out of these, 4 were multiple-choice questions, and 1 was an open-ended question requiring a detailed response. The questionnaire received 3 responses specifically from hotel/tour place applicant. This survey aimed to gather comprehensive feedback on various aspects of the Negeri Sembilan Tourism and



Hotel Halal Management System from the tourist perspective, including ease of use, overall satisfaction, and suggestions for improvement. Figure 6.9 until Figure 6.13 were the list of question and result of the questionnaire.

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Figure 6.9 questionnaire 1 for hotel/tour place applicant



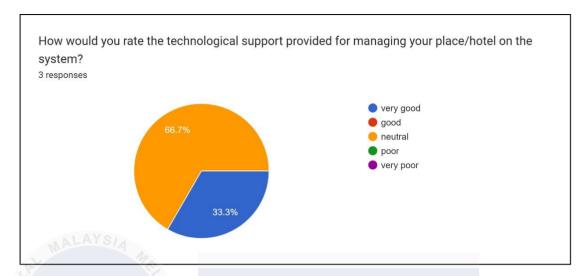


Figure 6.11 questionnaire 3 for hotel/tour place applicant

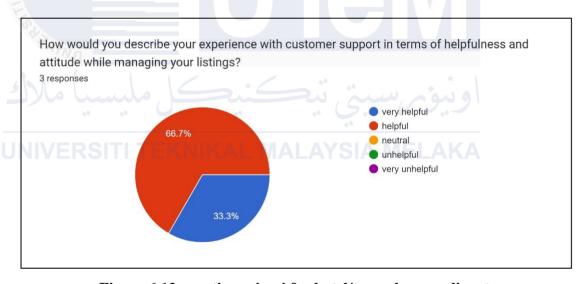


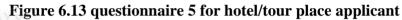
Figure 6.12 questionnaire 4 for hotel/tour place applicant

What features or improvements would you like to see in the system to better manage your place/hotel?
3 responses

no

Seamless Booking Integration which is I'd love a system that automatically syncs bookings from all platforms to our website, OTAs like Booking.com and Expedia, and walk-ins to prevent overbookings and ensure real-time availability updates.

cust can view room availability via online





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#### 6.5.2.3 Staff

For the staff questionnaire, there were 4 questions in total. Out of these, 3 were multiple-choice questions, and 1 was an open-ended question requiring a detailed response. The questionnaire received only one responses specifically from staff. This survey aimed to gather comprehensive feedback on various aspects of the Negeri Sembilan Tourism and Hotel Halal Management System from the staff perspective, including ease of use, overall satisfaction, and suggestions for improvement. Figure 6.14 until Figure 6.16 were the list of question and result of the questionnaire.

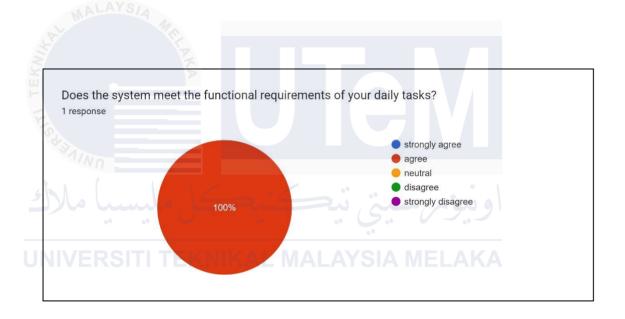


Figure 6.14 Questionnaire 1 for staff

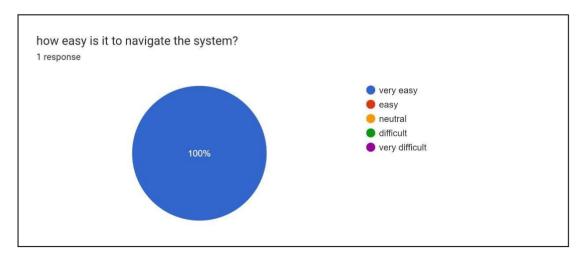


Figure 6.15 Questionnaire 2 for staff

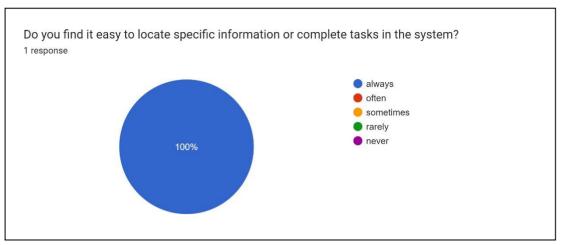


Figure 6.17 Questionnaire 3 for staff

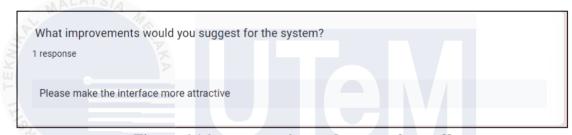


Figure 6.16 open question and answer for staff

### 6.5.3 Strength and weakness

## i. Strength of the system

- 1. Focus on Halal Tourism: The system is tailored specifically for halal tourism, catering to a growing market segment that seeks halal-certified hotels and services. This specialization makes it a valuable tool for Muslim travelers and supports the halal tourism industry in Negeri Sembilan.
- **2. Comprehensive Information:** The system provides detailed listings of halal-certified hotels and tourist attractions. This centralized information helps users easily find relevant accommodations and activities without needing to search through multiple sources.

**3. User-Friendly Interface:** The system is designed with ease of use in mind, ensuring that users can navigate through the platform effortlessly. Clear navigation and a straightforward user interface contribute to a positive user experience.

#### ii. Weakness of the system

- 1. Lack of Advanced Features: The system does not include advanced features like a booking system, payment gateway, or tour guide integration. These are key functionalities that could enhance the overall user experience and make the system more competitive with other tourism platforms.
- 2. No Real-Time Data Integration: The system might not offer real-time data updates, such as hotel availability or live tourist attraction status. This limitation can reduce the effectiveness of the system, especially for users who rely on up-to-date information for planning their trips.
- **3. Potential for User Overload:** If the system presents too much information at once or lacks efficient organization, users could become overwhelmed. A cluttered interface or insufficient categorization might lead to difficulties in finding relevant information quickly.

## 6.6 Conclusion

Software testing is the most essential part in programming improvement in light of the fact that the engineer need to test the structure with the veritable customer to get the outcome of yield whether system is run properly or not. In the occasion that have some slip or disillusionment from customer, the fashioner need to modify that bumble also do the test again in coming up testing method.

Other section is the conclusion. This section wills instructions about perception on shortcomings and quality. In additional, here finishing part will characterize about recommendations for development and commitment.



#### **CHAPTER 7: CONCLUSION**

## 7.1 Observation of Weakness and Strengths

The Negeri Sembilan Tourism and Hotel Halal Management System is a robust platform that focuses on promoting halal tourism within the region. By providing comprehensive information about halal-certified hotels and tourist attractions, it ensures that Muslim travelers can easily find accommodations and places to visit that align with their religious beliefs. The system's emphasis on halal certification enhances trust and credibility, attracting a growing segment of tourists seeking halal-friendly travel options. Additionally, the system's clear categorization and user-friendly interface make it easy for users to navigate and find relevant information quickly, contributing to a positive user experience.

Despite its strengths, the system has some notable limitations. One significant drawback is the absence of a booking system. Without the ability to make reservations directly through the platform, users must visit external websites or contact the hotels and attractions separately, which can be inconvenient and time-consuming. Additionally, the system lacks a tour guide feature, which could provide valuable assistance to tourists seeking organized tours or personalized itineraries. This omission limits the platform's utility for travelers who prefer guided experiences. As a result, while the system serves as a useful directory of halal-friendly options, it falls short in offering a comprehensive travel planning and booking experience.

## 7.2 Proposition for Improvement

Several key improvements can be considered to enhance the functionality and user experience of the Negeri Sembilan Tourism and Hotel Halal Management System. Firstly, integrating a booking system would significantly improve the platform's utility, allowing users to make reservations for hotels and attractions directly through the website. This integration would streamline the booking process, making it more convenient for users and potentially increasing overall user engagement and satisfaction.

Adding a tour guide feature would provide users with the option to book guided tours, offering detailed itineraries and packages covering various tourist attractions within Negeri Sembilan. This feature would cater to tourists seeking structured and informative travel experiences, thus enriching their visit. Additionally, improving the search functionality by adding advanced filters would help users find specific hotels or attractions based on their preferences, such as price range, location, amenities, and user ratings, making it easier for them to locate exactly what they are looking for.

Implementing a user review and rating system would provide valuable insights to prospective tourists, allowing users to share their experiences and rate the hotels and attractions they visit. This can build a community of trust and offer practical information to future visitors. Developing a mobile application could greatly increase accessibility and convenience for users, allowing them to access information and make bookings on the go. Features such as offline access to saved information and GPS-based navigation to attractions could further enhance the app's utility.

#### 7.3 Contribution

The Negeri Sembilan Tourism and Hotel Halal Management System offers significant contributions to its users, hotel administrators, and the local tourism industry. For users, the system enhances their experience by providing easy access to halal tourism information, such as halal-certified hotels and tourist attractions. Its user-friendly interface ensures that both locals and tourists can navigate the system with ease, enabling them to make informed decisions effortlessly. The system also streamlines the hotel registration process for hotel owners, allowing them to register and update their listings with minimal effort.

Moreover, the system ensures that users have access to reliable and up-to-date information. Transparency in halal certification builds trust among users, particularly those who prioritize halal services, while detailed information about tourist attractions helps travelers plan their trips effectively. All data is verified by the Superadmin, ensuring that only accurate information is displayed. Hotel owners benefit from administrative control over their profiles and hotel listings, with the ability to manage and update their information as needed, creating an efficient communication channel between them and the Superadmin.

The Super admin's role is also enhanced through improved tools for hotel verification and supervision. The system allows for the management of hotel registrations, staff members, and the verification of halal status, maintaining high service standards. Additionally, the Super admin can monitor user activities, ratings, and hotel performance through detailed reports, enabling data-driven decisions to improve tourism services in Negeri Sembilan.

This system also supports the local tourism industry by promoting Negeri Sembilan as a prime destination for halal-conscious travelers, contributing to the growth of local businesses and attracting more visitors. By focusing on halal tourism, the system reinforces the region's position as a leader in this niche market. Verified listings of halal-certified establishments increase user trust, providing a safer environment for travelers. Furthermore, transparent user reviews and ratings allow future travelers to make well-informed decisions based on real experiences. Overall, the system strengthens the halal tourism sector in Negeri Sembilan and positively impacts both the tourism industry and its users.

# 7.4 Conclusion EKNIKAL MALAYSIA MELAKA

In conclusion, the Negeri Sembilan Tourism and Hotel Halal Management System serves as a comprehensive platform that enhances the halal tourism experience in Negeri Sembilan. By providing easy access to verified information on halal-certified hotels and tourist attractions, the system empowers users to make informed decisions while fostering transparency and trust. The system also simplifies the administrative tasks for hotel owners and Superadmins, ensuring efficient management of hotel registrations and user data. Ultimately, this project supports the growth of halal tourism in the region, benefiting both travelers and local businesses.

However, this system still has several lacks or weaknesses in certain parts. Next, even though all objectives were achieved, there are still certain parts that need some improvement for the system in the future.

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