



MALAYSIAN INSTITUTE OF
INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION (MIIT)

FINAL YEAR PROJECT PROPOSAL

Travelling Application

< JDM – Japan Dan Malaysia >

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Project title

Travelling App (JDM - Japan Dan Malaysia)



Introduction

Whenever a tourist wants to travel in another country, they need to browse the Internet for information regarding the country they want to travel to. They would search multiple different websites with a specific use-case for what they need, what they should eat, which hotel they should stay at, where are some tourist spots they should go to, and other information they need to survive in a foreign nation. Oftentimes, they get bombarded with too much information, and waste too much time and energy finding different websites for their specific needs. So, we could make people's lives easier by combining all of the needed utilities and information for travelling in another country into a single app. Our project is specifically intended for the use for travellers to travel to Malaysia and Japan.

Project background

This proposal aims to develop a comprehensive travel application focused on Malaysia and Japan. The application will integrate essential travel tools into a single platform, offering features such as a clock for managing the time zones of both countries, hotel finders and booking systems, a curated list of tourist spots and attractions unique to Malaysia and Japan, a currency converter, a language translator for Malay, Japanese, and English, a budget planner, GPS integration with Map, and food recommendations based on local cuisines. By consolidating these functions, the **JDM Travel App** will provide a more efficient, user-friendly experience tailored to travellers exploring the diverse cultures and landscapes of Malaysia and Japan.

Problem statement

1. Information Overload and Fragmentation

Tourists face confusion and inefficiency due to scattered travel information across multiple websites.

2. Language Barriers and Communication Issues

Tourists struggle with local languages, impacting communication, navigation, and cultural understanding.

3. Time Zone and Schedule Management

Travelling between different time zones causes schedule mismanagement and booking confusing.

4. Difficult in Management Budgets and Currency Exchange

Tourists find it hard to track budgets and handle fluctuating currency exchanges between Japanese Yen and Malaysian Ringgit.

5. Lack of Localised Recommendations for Tourist Spots and Food

Tourists miss out on authentic local experiences due to insufficient localised recommendations.

6. Limited Access to Comprehensive Travel Planning Tools

Current apps lack a unified platform for essential travel tools, leading to inefficient planning and navigation.

Research Objectives

- To develop an integrated travel application that consolidates essential travel tools into a single platform, focusing on Malaysia and Japan to streamline travel planning and information gathering for tourists.
- To facilitate effective communication by implementing a language translation feature that supports Malay, Japanese and English, aiming to reduce language barriers for travellers.
- To provide accurate time zone management tools that help tourists efficiently coordinate and synchronise activities and schedules between Malaysia and Japan.
- To design a currency conversion feature that offers real-time exchange rates between the Japanese Yen and Malaysian, allowing users to manage their travel budgets more effectively.
- To offer localised recommendations for tourists spots and local cuisine in Malaysia and Japan, promoting authentic experiences and enabling tourists to explore hidden gems in both countries.
- To provide links for GPS systems, enabling tourists to navigate new locations confidently with detailed directions and real-time updates.
- To enhance the overall travel experience by creating a user-friendly interface that provides comprehensive information on hotels, booking options, budget planning, and transportation in one unified app.

Scope of the Project

The Scope Of the Project includes the development of various key features that can be found in our Travelling Application. It is to help first time tourists to visit Malaysia or Japan much easier. The Scope of the Project includes the development of various key features.

- **Clock for Different Time Zones:**
This will be featured in the app managing the time zones of both Malaysia and Japan. This will assist first time travellers in planning their schedule and staying updated with time differences when moving between countries.
- **Hotel Finder:**
A hotel search tool will be integrated into the app, allowing users to find, and compare, in Malaysia and Japan. This feature will be connected to popular hotel booking platforms for seamless reservations.
- **Tourist Spots and Attractions Guide:**
A curated list of top tourist spots and attractions for both Malaysia and Japan will be provided. This will help users plan their sightseeing and discover local hidden gems.
- **Currency Converter:**
A curated list of top tourist spots and attractions for both Malaysia and Japan will be provided. This will help users plan their sightseeing and discover local hidden gems.
- **Language Translator:**
To overcome language barriers, the app will feature a translator for Malay, Japanese, and English, ensuring smooth communication between travellers and locals. This tool will be essential for basic conversations, reading signs, or navigating menus.
- **Budget and Travel Planner:**
A built-in planner will allow users to set travel budgets, manage daily expenses, and create personalised itineraries. This feature will help ensure that users can stick to their budget while maximising their experience in each country.
- **Food Recommendations:**
To enhance the culinary experience, the app will offer recommendations for local foods in both Malaysia and Japan. It will highlight must-try dishes, street food, and restaurants.

Roles:

- 1) ALIFF EIMAN AJAMI BIN MD JAMIL
 - i. Develop Clock for different time zones
 - ii. Develop tourists and attractions guide
- 2) AHMAD NOR THAQIEF BIN MUHAMMAD KHATIB
 - i. UI/UX designer
 - ii. Develop food recommendations
- 3) ABDUL RAHIM BIN ABDUL AZIZ
 - i. Database designer
 - ii. Develop Language translator
 - iii. Develop Currency converter
- 4) AFEEF FITRI BIN MOHAMED NAZIM
 - i. Develop Hotel finder
 - ii. Develop budget and travel planner

Program of Work

Project Timeline / Scheduling

JAPAN DAN MALAYSIA (JDM)																
No.	TASK	WEEK														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Find Group and Project Title															
2	Find Supervisor															
3	Conduct Initial Research															
4	Propose Supervisor															
5	Propose Project Title															
6	Requirement Analysis															
7	Database Design															
8	UI/UX Design															
9	Development															
10	Testing															
11	System Demo															
12	Maintenance															
13	Project Presentation															
14	Report Submission															

Methodology - AGILE development

Agile methodology is particularly suited for the development of the Travelling App (JDM - Japan Dan Malaysia) due to its flexibility, iterative approach, and emphasis on collaboration. Here's how Agile can benefit our project:

1. Flexibility to Adapt to Changes:
Agile allows us to easily adapt to changes in user needs and market trends, making it easier to refine features based on real feedback.
2. Incremental Development:
The project is divided into smaller parts (sprints), allowing us to develop and test features one at a time, like the currency converter or hotel finder.
3. Enhanced Collaboration:
Agile encourages frequent communication among team members. Regular meetings (sprints and stand-ups) promote transparency and ensure everyone is aligned, reducing misunderstandings and improving the overall development process.
4. Continuous Testing and Feedback:
This allows us to identify and fix issues early on, ensuring that features like the language translator and GPS integration work seamlessly before they are fully launched.

PHASE of AGILE SDLC :

1) Requirement Analysis

Finding features needed and how to implement them in our web app. This involves engaging with potential users to gather insights on what functionalities they expect.

2) Design

In the design phase, we concentrate on designing the database using MySQL. This includes defining the **entities** (such as users, hotels, and attractions) and their **attributes** (like names, locations, and descriptions) necessary for the application's functionality.

We also focus on **designing UI/UX using Figma**. This involves creating wireframes and prototypes to visualise the app's layout and flow. By utilising Figma, we can iterate on designs quickly and incorporate user feedback to enhance usability and overall experience.

3) Development

During the development phase, we develop the web app using PHP and JavaScript to create a dynamic web application. PHP is used for the server-side development, handling data processing and interactions with the MySQL database. JavaScript is utilised for front-end functionalities, ensuring that the app is interactive and user-friendly.

4) Testing

Testing is ongoing, with each feature being validated after development. This continuous testing approach ensures that issues are identified and resolved promptly, leading to a more reliable application at launch.

5) Maintenance

Post-launch, Agile enables us to quickly address bugs and incorporate new features based on user feedback. Regular updates can be scheduled to enhance the app, ensuring it remains relevant and useful for travellers.

Resources List

Hardware Resources:

1) Laptop

System requirements:

Processor: Quad Core CPU or higher

Memory: 8GB RAM or higher

Price: RM3000 or lower

Quantity: 4

2) Raspberry Pi 4

Processor: Quad core Cortex-A72 @ 1.82 GHz

Memory: 4GB RAM

Price: RM400

Software Resources:

1) XAMPP

Version: 8.2.12

Price: Free

2) PHP

Version: 8.3

Price: Free

3) MySQL

Version: 8.0.40

Price: Free

4) Javascript

Version: ES2023

Price: Free

Expected Product

Our product, a travel web application, is designed to enhance users journeys from start to finish. This all-in-one platform offers all the features a tourist would need for their best travelling experience into one single app. Some features including world clock, currency converter, language translator, budget planner, itinerary planner, maps, and so much more. With user-friendly navigation, users can plan all their needs for travelling in one single app. We aim to provide a good core application that satisfies travellers' needs, that could be added more features through frequent updates in the future.

Conclusion

Whether users are planning a weekend getaway or an international adventure, our travel application is users ultimate travel companion, making exploration effortless and enjoyable. With tons of features, all travellers need will be satisfied in one single app.

Bibliography

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MySQL - <https://www.mysql.com/>

Guides - <https://www.w3schools.com/>

Figma - <https://www.figma.com/>