

KLANG VALLEY TRANSIT TRAVELLER

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SUPERVISOR'S DECLARATION

I hereby declare that I have checked this thesis and in my opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Science (Software Engineering).

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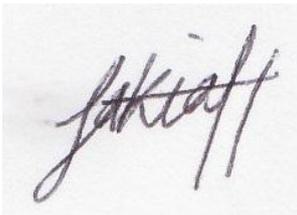
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I dedicated this thesis to my family who always being there for me during my ups and downs and motivated me until I completed it. Lastly, this thesis I dedicated to my friends who always cheering me up when I'm gloomy.

ABSTRAK

Pada masa kini, pengangkutan awam telah digunakan sebagai pengangkutan utama untuk rakyat Malaysia, contohnya KTM Komuter. Komuter KTM telah digunakan secara meluas dalam era ini. Masalahnya ialah apabila pengguna ingin menggunakan KTM Komuter mereka perlu membeli tiket terlebih dahulu sebelum mereka boleh pergi ke destinasi mereka. Ia akan mengambil masa untuk pengguna membeli tiket kerana bilangan orang yang menggunakan KTM sebagai pengangkutan utamanya. Selain itu, peluang untuk kehilangan tiket mereka lebih tinggi. Bagi pengguna yang menggunakan KTM Komuter untuk kali pertama, mereka akan mengambil masa untuk mengetahui laluan destinasi mereka. Selain itu, mereka perlu bertanya atau mencari seseorang yang mengetahui harga tiket untuk destinasi mereka. Resolusi untuk masalah ini ialah Pengembara Transit Klang Valley akan dibangunkan.

Transit Travelling Lembah Klang adalah sistem web yang membolehkan pengguna mengetahui peta laluan KTM Komuter, harga tiket untuk setiap stesen dan ketersediaan tiket kuantiti bagi setiap stesen. Sistem ini memberi tumpuan kepada pengguna yang menggunakan KTM Komuter sebagai pengangkutan awam utama mereka. Objektif sistem ini adalah untuk membantu pengguna mengetahui dan menerokai peta laluan KTM Komuter. Selain itu, untuk memastikan pengguna mengetahui laluan stesen KTM Komuter, harga tiket bagi setiap stesen KTM dan ketersediaan tiket kuantiti untuk setiap stesen KTM.

ABSTRACT

Nowadays, public transport has been used as the main transport for Malaysians. For example, the KTM Komuter. The KTM Komuter has been used widely in this era. The problems are when the user want to use the KTM Komuter they needs to purchase the ticket first before they can go to their destination. It will take time for the user to purchase the ticket due to the numbers of people who used the KTM as their main transport. Besides, the chances to lose their ticket are higher. For the user who used the KTM Komuter for the first time, they will take time to know the route of their destination. Furthermore, they need to ask or find someone who knows the ticket price for their destination. The resolution for the problems is the Klang Valley Transit Traveller will be developed.

Klang Valley Transit Traveller is a web system that allow user to know the route map of KTM Komuter, the ticket price for each station and the availability of the quantity ticket for each station. This system is focus on user who used the KTM Komuter as their main public transport. The objectives of this system are to help user to know and explore the KTM Komuter route map. Besides, to ensure user to know the route of the KTM Komuter station, the ticket price of the each KTM station and the availability of the quantity ticket for each KTM station.

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LIST OF ABBREVIATIONS

HTTP	Hypertext Transfer Protocol
HTML	Hypertext Markup Language
PHP	Hypertext Preprocessor
API	Application Programming Interfaces
OS	Operating System
SDK	Software Development Kit
APK	Android Application Package
KL	Kuala Lumpur
KTMB	Keretapi Tanah Melayu Berhad
KTM	Keretapi Tanah Melayu
DART	Explore Dallas Area Rapid Transit
THE T	Trinity Metro
DCTA	The Denton Transportation Authority
RAD	Rapid Application Development
CSS	Cascading Style Sheets
SDLC	Software Development Life-Cycle
UAT	User Acceptance Test

CHAPTER 1

INTRODUCTION

1.1 Background

In this new revolution of generation, technology played an important role in our daily life and society. The technology itself, the whole thing have a different types and various technologies have been developed. The whole thing will comfort individual to be extra competently. There are plenty of request for web based application and onwards to fulfil the needs of the user. The demands to make the slighter missteps and saving times in our modern life. Therefore, through develop this web based application for Klang Valley Transit Traveller is a pleasing solution that will integrates with each one of the request.

Before the invention of the Klang Valley Transit System, user needs to view the Klang Valley Transit maps in order to know the route of their destination. There are a lot of stations that user need to focus on and understand. Some of them take a lot of time to understand the maps. The possibility for user to overlooks the maps and do mistakes while buy the ticket for their destination is higher. Some of them capture the maps so that it easy for them to know the route of their destination. In other way to make the user be more efficient and do fewer mistakes while buying the ticket for their destination, Klang Valley Transit Traveller application will be built. The application will be more focus on the KTM Komuter stations that consist of two routes which are Tanjung Malim to Port Klang and Batu Caves to Tampin. The application will help user to know the available tickets for their destination, exact station for their destination and the price for their tickets.

Klang Valley Transit Traveller is an application that will help users in order of viewing the maps of the KTM Komuter route, the available tickets for each stations and

the tickets price for each stations. This application conjointly provides benefits for user to understand precise route of their destination and earlier can minimum their times and evade them from being bewildered. This application will be one of the finest web based and outstandingly obliging to clients for assembling demand easily and be more competent with less human error.

1.2 Problem Statement

When developing Klang Valley Transit Traveller, it is not solely helps the user to boost their expertise once consuming the web based application. It is conjointly can facilitate the society to resolve some difficulty that they need to confront. The list below shows the problem statement in order to develop this project.

- a. Time consuming.
 - i. Complexity for user to know availability of the ticket for each KTM Komuter station.
 - ii. User need to analyse the KTM Route Map

User is taking too much time to analyse the KTM route map and to know the availability of the ticket.

- b. Human error.
 - i. Need to ask an expert to know the exact route for each station, price of the tickets and the availability for the tickets.
 - ii. User may overlooks the KTM Komuter route maps

The high chances for user to make mistake when analyse the KTM Komuter routes map, user did not bring enough money to purchase the ticket.

- c. Reduce lost ticket

It will troublesome the user if they lost the ticket to arrive at their chosen destination. Furthermore, user will face difficulty when they lost the ticket and need to purchase the ticket again.

1.3 Goal and Objective

The goal of this project is to develop a Klang Valley Transit Traveller. In order to attain the goal, several objectives need to achieve. Web based application are great technology and very helpful.

There are objectives of the project:

- i. To design the system of Klang Valley Transit Traveller interfaces
- ii. To develop the system of Klang Valley Transit Traveller to able meet the user requirements.
- iii. To test the Klang Valley Transit Traveller system to make sure to meet the user requirements and user satisfaction.

1.4 Scope

For Klang Valley Transit Traveller to work smoothly, there are several scopes that need to be considered.

The scopes of this project are:

- i. The function of this system is to ease the user to know the exact routes and stations for their destination, the availability tickets for their destination and the exact ticket price for each station.
- ii. User must have a device that can use the application either laptop or any devices in order to use the system. This system is available for user who want to use the KTM Komuter for their main public transport.
- iii. Web free source coding software will be used to construct and operate the application. It will be assembled, operate and analysed before it released to the user.

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