Universiti Teknologi MARA

Bus Notification Mobile App on Android Platform for UiTM Students

MUHAMMAD FAIEZI BIN FAUZI

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"In the name of Allah, the most Gracious and Most Merciful"

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ABSTRACT

Global Positioning System (GPS) is that the main technology implemented behind the system. A Driver app gas a GPS receiver is employed to trace on real time bus coordination by continuously receiving the position data which are latitude and longitude values from GPS satellite, then send the position data back to students app and students app process the raw position data into real time information for users.

The poor services provided by bus service providers are because majority of them are still implementing manual work. Moreover, passengers are impatient while they're waiting in stop because they're ineffective to understand exactly how long to attend and where the following coming bus is. The main purpose of this project is to develop a real time bus tracking system to boost current utility system and reduce the workload of bus management team. Methodology applied during this project is Agile method which has six phases which is meet, plan, design, develop, test and evaluate.

Overall, implementation and testing phase are crucial components in developing applications. The implementation process comprises various integration of elements in order to publish the final product. Bus2Go friendly user interface (UI) is easy for user to understand and help them fully utilized the function of this application.

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CHAPTER 1

INTRODUCTION

In chapter 1, the project background will explain about the general view of the research title and its connection with current technology. The problem statement will be provided with the objectives and emphasis to achieve this project's aim. Scopes will be identified as instructions to avoid deviating from the research. Significant benefits for the community are also illustrated in this project.

1.1   Project Background

Open vehicle modes incorporate transports, trolleybuses, cable cars and trains, 'fast travel' (metro/trans/undergrounds and so forth) and ships. Intercity open vehicle is commanded via aircrafts, mentors, and intercity rail. Fast rail systems are being created in man portions of the world. Transport travel in the UK has been in decay since 1950, when it was the predominant method of transport (G. Wall, M.McDonald; 2007). According to Prof. Datuk Dr. Mohd Idrus Mohd Masirin, the country's urban transportation system started with the bus service in the early 60s until private transportation became common among Malaysians in the 70s and 80s until today. Civil Engineering and Environment Faculty lecturer at the Universiti Tun Hussein Onn Malaysia (UTHM) said at the same time the public transport system has expanded to accommodate the growing number of people, particularly in major cities with rail and transit systems. In Malaysia, the open transportation particularly transport is a one of a decent transportation that is used as a subsequent vehicle. It is generally used by the moderate and poor community. The local bus can be the highest potential transport that can be a high potential vehicle that can prompt the improvement of the economy, society and traveller if the transport administration is superb as far as condition, time calendar, and transport course. Bus transportation is not only used by people who to get to work to avoid the traffic jammed during peak hours, it is also used by students from the university. Among all the services provided by the university, bus service is the