UNIVERSITI TEKNOLOGI MARA

MOBILE APPLICATION ON REAL-TIME HIGHWAY TRAFFIC STATUS IN MALAYSIA

AKMAL IRHAM BIN ASNOR

Thesis submitted in fulfillment of the requirements for the degree of BACHELOR OF COMPUTER SCIENCE (HONS)

Faculty of Computer and Mathematic Science

January 2019
SUPERVISOR’S APPROVAL

MOBILE APPLICATION ON REAL-TIME HIGHWAY TRAFFIC STATUS IN MALAYSIA

By

AKMAL IRHAM BIN ASNOR
2016589359

This thesis was prepared under the direction of thesis supervisor, Ahmad Farid Bin Najmuddin. It was submitted to the Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons).

Approved by:

Ahmad Farid Bin Najmuddin
Thesis Supervisor

JANUARY, 2019
DECLARATION

I certify that this report and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

........................................

AKMAL IRHAM BIN ASNOR

2016589359

JANUARY 28, 2019
ACKNOWLEDGEMENT

Alhamdulillah thanks and praise to Allah because of His Almighty and His utmost blessings, I was able to finish this research before meeting the dateline that has been given. Firstly, my special thanks to my supervisor, Sir Ahmad Farid Bin Najmuddin and my co-supervisor, Madam Ireen Munira Binti Ibrahim who is majorly contributed in stimulating encouragement and suggestion from the beginning of this research until the end.

Special appreciation to my beloved parents, especially my father who always giving me moral support and advise me in order to finish this project, he also who give me financial support during the preparation of this project.

Finally, I would like to give my special gratitude to my beloved lecture and friend who always support and advise me from the beginning of this project, so that I can be more confident to complete this project.
This project research is focusing on the Highway Traffic Status mobile application for highway user who always been stuck in heavy traffic. By using the information about highway traffic status that has been posted in social media such as tweeter, this application will extract all the information related to highway traffic, analyze the information and display the information to end user. Even though, there is some application that already been used by the user to get the information about highway traffic statuses such as PLUS Highway Status & Rate, Plus Highway Traffic Status and LLM Traffic. All these applications are not based on real-time information, therefore, the user still facing problem to get the latest highway traffic status. To solve this problem, this project used R programming language since R programming language is one of the best programming languages that often used in data analysis. R programming language is used to extract and analyze all the data so that the user will get the latest information about highway traffic. The working prototype of this project was developed by using Android Studio since Android Studio is an officially Integrated Development Environment (IDE) for Google's Android operating system. The outcome for this project is to create Highway Traffic Status mobile application that provides the latest traffic status to the user.