UNIVERSITI TEKNOLOGI MARA

AUTO-SILENT MODE APPLICATION FOR MOSQUE USING GEOFENCING TECHNIQUE

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BACHELOR OF COMPUTER SCIENCE (Hons) DATA COMMUNICATION AND NETWORKING

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Auto-Silent Mode Application For Mosque Using Geofencing Technique

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**Final Year Project Report submitted in fulfilment of the requirements for
Bachelor of Computer Science (Hons) Data Communication and Networking
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SUPERVISOR'S APPROVAL

AUTO-SILENT MODE APPLICATION FOR MOSQUE USING GEOFENCING TECHNIQUE

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This final year project proposal report was prepared under the supervision of the project supervisor, Mohamad Asrol bin Arshad. It was submitted to the Faculty of Computer and Mathematical Science and was accepted in partial fulfillment of the requirements for the degree of Bachelor in Computer Sciences (Hons) Data Communication and Networking.

Approved by

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Mohamad Asrol bin Arshad
Project Supervisor

JUNE 5, 2017

STUDENT DECLARATION

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

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ABSTRACT

Mobile device has become as an important part in human life. It offered many functionalities to the human that cannot be denied. However, there are growing concern about the disturbance cause by mobile phones. So, one of the concern is the disturbance from ringing sound at a place that require silence such as at the mosque. Mosque is the place where need a calm environment as Muslim's people find the serenity and worship to Allah. This disturbance occurred because of sometimes some people forget to turn their phone into silent mode before entering mosque. Therefore, for this final project propose an auto-silent mode application for mosque using geofencing technique. In order to develop this project there are 5 phases that require to fulfil which are information gathering, analysis, design, development and testing known as waterfall model. Geofencing technique is used to detect virtual boundary that have been created. So, when the user enters or exit the virtual boundary it will automatic silent or unsilent the phone. Based on the survey conducted to 100 respondents, 91% from 100 respondents satisfied with the interface of the project and the functionalities of the application. While 85% from 100 respondents agree with the accuracy of Global Positioning System (GPS). As the conclusion, by developing this project it can avoid the disturbance in mosque that cause by mobile phones with it will automatic silent the phone when the people enter the mosque and vice versa.