

UNIVERSITI TEKNOLOGI MARA

**MOBILE APPLICATION OF SOLAT
FOR INCAPABLE PERSON USING
RULE BASED EXPERT SYSTEM**

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BACHELOR OF COMPUTER SCIENCE (Hons.)

JULY 2015

SUPERVISOR'S APPROVAL

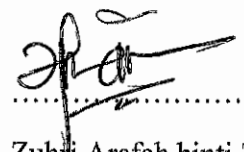
MOBILE APPLICATION OF SOLAT FOR INCAPABLE PERSON USING RULE-BASED EXPERT SYSTEM

by

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This report was prepared under the supervision of the project supervisor, Zuhri Arafah binti Zulkifli. It was submitted to the Faculty of Computer and Mathematical Science and was accepted in partial fulfilment of the requirements for the degree of Bachelor of Computer Science (Hons).

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ACKNOWLEDGEMENT

Alhamdulillah, praises and thanks to Allah because of His Almighty and His utmost blessings, I was able to finish this research within the time duration given. Firstly, my special thanks goes to my supervisor, Zuhri Arafah binti Zulkifli with the support, inspiration, and all the guidance for all the time. Furthermore, special thanks to Sir Muhammad Hamiz bin Mohd Radzi because his suggestion, idea in this project report was very helpful and useful.

Special appreciation is also extended to my beloved parents

Last but not least, I would like to give my gratitude to my dearest friend and my lecturer in helping me to finish this project by sharing and teaching me.

ABSTRACT

This project focuses on the development of mobile application of solat for incapable person using rule based expert system. The purpose of this project is to enhance the use of technology in guiding the incapable person to solat correctly. The process of learning using mobile application is faster and easier with the flip picture. To develop this mobile application, the rule based expert system is used as the technique. The rule based is the algorithm and the knowledge comes from the expert. For the system development, the method that is used is a System Development Life Cycle (SDLC). SDLC process can be repeated and clearly documented. In the planning phase, it involves gathering the information. In the analysis phase, the analysis information is conducted. In the design phase, the flowchart, use case diagram, context diagram and interface are designed in this phase. To develop the mobile application is in the development phase. Lastly, the functionality of the application is tested in the testing phase and the result is the flip picture that show how to solat correctly. The limitation of this project is the used in Malay language and focus only for Android platform. To overcome this limitation, the language can be upgrade in English and Arabic language and to improve the platform, the development can be in the iOS platform and blackberry.

Keyword : incapable person, solat, rule based, SDLC process

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