UNIVERSITI TEKNOLOGI MARA

REPETITIVE APPROACH OF MEMORIZING SURAH AL-KAHFI USING RULE-BASED EXPERT SYSTEM

SITI FASIHAH BINTI IBRAHIM

BACHELOR OF COMPUTER SCIENCE (Hons.)

JULY 2015

Universiti Teknologi MARA

Repetitive Approach of Memorizing Surah Al-Kahfi using Rule-Based Expert System

Siti Fasihah binti Ibrahim

Thesis submitted in fulfillment of the requirements for Bachelor of Computer Science (Hons) Faculty of Computer and Mathematical Sciences

July 2015

SUPERVISOR'S APPROVAL

REPETITIVE APPROACH OF MEMORIZING SURAH AL-KAHFI USING RULE-BASED EXPERT SYSTEM

By

SITI FASIHAH BINTI IBRAHIM
2012216716

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

Approved by

…………………………………………………..

Miss Zuhri Arafah binti Zulkifli

Project Supervisor

JULY 30, 2015

STUDENT'S DECLARATION

I certify that this report and the project to which it refers 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

………………………….............

SITI FASIHAH BINTI IBRAHIM
2012216716

JULY 30, 2015

ABSTRACT

This project focusing on developing mobile application for repetitive approach of memorizing Surah Al-Kahfi using rule-based expert system. The project aims to encourage the memorizing of Al-Quran using the latest technologies. With the improvement of smart phone technology, many applications on Al-Quran are being designed for mobile devices to make memorizing process become easier and faster than before. The mobile application for memorizing Surah Al-Kahfi may be able to help user to memorize verses in Surah Al-Kahfi stage by stage. Al-Quran can be memorized with a proper technique for better result. To develop this mobile application, repetitive approach is applied using Rule Based Expert System. The long verses will be divided into smaller portions and to test the understanding of the users, they need to pass the pop quiz section to move to the next stage. In this project, agile technique is used as the process can be change based on user's requirement. Analysis and discussions for this project is getting from the interview that have been conducted with Mr. Ahmad Zaki Fikri bin Mohd Nooh which is an Assistant Affairs of Islam in UiTM Jasin, Malacca. The result for this project is provided in Chapter 4 of this report which contains of the rules in order to develop the application and design the application. As a conclusion, the objectives of the project are achieved and there are some recommendations to improve the project and make it more efficient which are add more than one language, add more surah in order to fulfil user's needs, improve the design to be more interactive and add choose option for audio reciters.

Keywords: memorize, repeat, android, Al-Quran