

**AN EXTENSION OF BAYESIAN ISLAMIC MEDICATION  
EXPERT SYSTEM  
(BIMES)**

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**INFORMATION AND COMMUNICATION TECHNOLOGY  
UNIVERSITI TEKNOLOGI PETRONAS  
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**An Extension of Bayesian Islamic Medication Expert System  
(BIMES)**

by

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Dissertation submitted in partial fulfilment of the requirements for the  
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CERTIFICATION OF APPROVAL

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September 2012

### CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the references and acknowledgements, and that the original work contained herein have not been undertaken or done by unspecified sources or persons.

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SALIHAN BINTI SABRI

## **ABSTRACT**

This paper documents the application of Bayes Theorem to represent the knowledge on Islamic Medication Expert System. The objective of the project is to improve the existing project that was an expert system (ES) for Islamic healing method on web platform to the mobile platform. The challenges in this project are to understand the coding, to develop database of the system and to develop an ES in mobile platform. It is an ES that is able to recommend relevant Islamic treatments based on the holy Qur'an and Hadith in response to the symptoms input by the user. In this project, ES concept is used to represent the knowledge on Islamic medication system which is called the diagnosis system. The diagnosis system can diagnose several sicknesses such as eye pain, fever, headache, stomach ache, and toothache based on the symptoms entered by user. After that, the system will provide suggested treatment from Islamic treatment concept which is based on Qur'an and Hadith. The suggested treatment comes together with some relevant action or gestures to be practiced by user to treat the sickness. With the system, user does not need to make appointment to see an expertise in this area for a therapy session. Users can practice the suggested treatment by themselves. Users may try this alternative method but there are some conditions that must be followed and the sickness is not very critical.

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