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## **APPROVAL AND DECLARATION SHEET**

**This project report titled Visual Basic Implementation Of Electronic Azan Reciter was prepared and submitted by Marlina Binti Abu Bakar (Matrix Number: 031030670) and has been found satisfactory in terms of scope, quality and presentation as partial fulfillment of the requirement for the Bachelor of Engineering ( Electronic Engineering ) in Universiti Malaysia Perlis.**

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## **MENGAPLIKASIKAN SEMUA AZAN ELEKTRONIK MENGUNAKAN VISUAL BASIC**

### **ABSTRAK**

Azan elektronik merupakan perisian yang akan menunjukkan masa dan waktu sembahyang setiap hari lima waktu untuk setiap bandar di Malaysia. Aturcara ini akan mengingatkan pengguna lima minit sebelum azan dan selepas azan dan berfungsi secara automatik. Perisian yang akan mengaplikasikan projek ini adalah Visual Basic 6.0 (VB 6.0). Projek ini memerlukan penulisan aturcara, analisis, sintesis dan aplikasi di VB 6.0. VB 6.0 akan memaparkan visual yang telah diprogramkan. Pengguna perlu menetapkan masa, tempat dan tarikh pada kali pertama sahaja untuk mengaplikasikannya kerana perisian berfungsi secara automatik. Kebaikan bagi projek ini adalah pengguna boleh menetapkan tempat pilihan mereka bagi menunaikan solat. Selain itu, perisian ini mempunyai keistimewaan pada waktu subuh iaitu peringatan lima minit sebelum azan akan didengarkan lagu seperti nasyid terlebih dahulu. Perisian ini dapat membantu pengguna melaksanakan sembahyang tanpa ragu-ragu kerana waktu sembahyang adalah merujuk kepada takwim solat dan Jabatan Kemajuan Islam Malaysai (JAKIM). Perisian ini telah berjaya direka bentuk dan diubahsuai fungsinya.

## **ABSTRACT**

An electronic azan reciter is the program that will show the clock and 5's daily prayer time for each city in Malaysia. This software will remind the user 5 minutes before azan and after azan. This software has been implemented in Visual Basic 6.0 (VB 6.0). This project required to write the source code, analyzed, synthesized and apply using the VB 6.0. VB 6.0 will show the visual interface. The user needs to set the time, place and date only the first time to implement because this software will be function automatically. The advantage of this project is the user can choose any place in Malaysia to set the prayer time. This project includes the special method to do during Subuh prayer time. This software can help the user to do the prayer without indecisions because the prayer time has been referred to the prayer time calendar and JAKIM. This software had been design and had preceded its function.

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## LIST OF SYMBOLS, ABBREVIATIONS OR NOMENCLATURE

$\alpha_0$	Hamal distance
$\lambda_0$	Elliptical sun longitude
$\varepsilon$	Angle slope elliptical
$e$	Orbit eccentricity
$\varpi_g$	Longitude of elliptical sun from perihelion
$eg$	Longitude of elliptical sun
$\delta$	Istiwa angle
$\lambda_\theta$	Elliptical latitude
$\lambda_t$	Elliptical Longitude
$z$	Zenith distance