

**eSIMS**  
**WEB BASED**  
**SCHOOL INFORMATION MANAGEMENT SYSTEM**

A thesis submitted to the Graduate School in partial  
fulfillment to the requirement for the degree  
Master of Science (Information Technology),  
Universiti Utara Malaysia

by

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**GRADUATE SCHOOL  
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## **ABSTRACT (BAHASA MALAYSIA)**

*Kejayaan pengurusan sesebuah organisasi bergantung kepada maklumat. Menurut Adekeye(1997) maklumat merupakan sumber yang penting kepada sesebuah organisasi dan individu. Oleh itu, ia perlu diurus bagi menjamin penggunaan yang lebih kos efektif. Best (1988) menyatakan bahawa untuk meningkatkan pencapaian organisasi, pengurusan maklumat mestilah ekonomi, efisien dan efektif. Sistem maklumat dan organisasi mempunyai hubungkait antara satu sama lain. Adekeye (1997) dan Rob dan Coronel (2000) menyatakan pembangunan dan penggunaan sistem maklumat pengurusan (MIS) mengarah kepada perancangan, membuat keputusan dan penghasilan yang lebih baik. Hari ini, Internet mengubah cara maklumat dijana, dicapai dan diagihkan. Web boleh dianggap sebagai pangkalan data separa yang besar yang memegang jumlah maklumat berguna. Kini, keputusan yang baik memerlukan maklumat dari data storan yang terurus. Internet telah mengubah sistem pengurusan pangkalan data dan meletakkannya ke arah aplikasi pangkalan data berasaskan web. Banyak organisasi telah mengambil kelebihan web dan menjadi organisasi berasaskan web. Malah, ramai profesional pangkalan data mempercayai bahawa pangkalan data berasaskan web merupakan satu elemen yang signifikan dalam pembangunan system maklumat. Oleh itu, laporan ini membincangkan pembangunan sistem pangkalan data dan rangkakerja dalam membangunkan prototaip system maklumat pengurusan sekolah menggunakan Apache, MySQL, dan PHP. Pembangunan sistem ini direkabentuk dengan menggunakan pendekatan Kitaran Hayat Pembangunan Pangkalan Data (DBLC). Prototaip sistem ini dapat digunakan sebagai rujukan dalam mengimplementasikan sistem pengurusan berasaskan web untuk sekolah-sekolah.*

## **ABSTRACT**

*Every aspect of management relies on information to succeed. According to Adekeye (1997) information has become a critical resource to the organizations and individuals and should be properly managed to ensure its cost effective use. Best (1988) stated that to improve the performance of the organization, information management must be economic, efficient and effective. Information systems and organization have been highly interconnected with each other. Adekeye (1997) and Rob and Coronel (2000) stated that the development and used of information management systems (MIS) leads to better planning, better decision making and better results. Today, the internet is rapidly changing the way information is generated, accessed and distributed. The Web can be considered to be a very large semi-structured database that holds vast amounts of useful information. These days, good decision requires information that comes from a manageable data storage. The Internet has transformed database management system and put them in move towards Web enabled database application. Many organizations are now taking full advantage of the web in becoming web centric organization. In fact, many database professionals believe that web database as a significant element in information system development. Hence, this study discusses the database system development and framework in developing a school information management system prototype, using Apache, MySQL and PHP. The system development was designed using the Database Development Life Cycle (DBLC) approach. The web based School Information Management System prototype can be used as a reference in the implementation of web-based management system for the schools.*

## **ACKNOWLEDGEMENTS**

**In the name of Allah  
The Most Beneficent, The Merciful**

This project would not have been possible without the help and support of many people. My sincere and deepest thank to Prof. Madya Fadzillah Siraj, for her outstanding supervision and continuous support.

My gratitude is also extended to my beloved mother, Hajjah Wan Chik Khalid, and the rest of the family members for being supportive and helpful.

Last but not least, my sincere and special thanks to my husband, Zurni and children, Nur Izni, Nur Hani, Nur Hana, Nur Lina and Ahmad Arif for their understanding, caring, patience and continuous love.

This project would not be possible without their encouragement, support, and guidance.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Overview

The Internet is the world's largest network consisting of a worldwide collection of networks that links together millions of businesses, government offices, educational institutions, and individuals. Moreover, each of the networks provides an abundance of resources and uses.

Although many people used the terms Internet and World Wide Web interchangeably, the World Wide Web is the most popular and powerful networked information system composed of Internet host computers that provide on-line information in a specific hypertext format. The Web can be considered to be a very large semi-structured database that holds vast amounts of useful information. According to Gibbs (1999), effective management of an organization's human asset is increasingly recognized as critical to organizational success for continuous improvement and the management of change

Previously, many organizations used file processing information system, which stores records in separate files. Unfortunately, file processing systems have some limitations

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