UUM WEB-BASED COMPUTER LABORATORY
RESERVATION SYSTEM: A PROTOTYPE

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BY

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ABSTRAK

Sistem tempahan makmal secara online adalah salah satu sistem yang banyak dilaksanakan di institusi-institusi pendidikan terutamanya di peringkat universiti. Sistem yang dibina ini dilaksanakan dalam bentuk aplikasi web kerana banyak faedah yang diperolehi dengan penggunaan aplikasi web.

Dengan penambahan jumlah pengguna makmal komputer yang terdiri daripada pelajar dan pensyarah, wujud masalah ketidakcukupan agihan komputer kepada pengguna di makmal komputer. Tujuan prototaip sistem tempahan makmal komputer berasaskan laman web ini dibina adalah untuk mengatasi masalah tersebut dan memudahkan pengurusan dan pengemaskinian maklumat tempahan.

ABSTRACT

Online computer laboratory reservation system is a system that has been implemented to many education institutions especially at university level. This develop system is implemented using web-based application because it gives many benefits.

The increment of the computer laboratory user's, it generates insufficient computer distribution among the user in the computer laboratory. Therefore, the purpose of this prototype computer laboratory reservation system through web is to solve this problem and in addition it also will ease the management in updating the reservation record.

Methodology used to develop the system is Object Modeling Technique (OMT) that consist of five phases namely analysis, system design, object design, implementation and testing. Database used to develop the system is MySQL with PHP programming language. Apache server will be use as a server to run the system and Internet Explorer 6.0 as a web browser of the system.

The main benefit of the prototype system is the user can view the availability of the PC at anytime and from anywhere during reservation. This system is enable to save time and cost.
ACKNOWLEDGEMENT

I would like to acknowledge the following whose support has been instrumental in ensuring the successful completion of this project. First and foremost, I would like to express utmost appreciation to my supervisor Mdm. Aeni Zuhana Saidin for her supervision of the project. Her ideas and guidance have been enormous help throughout the process from the initial stage until the completion of this project.

I also would like to thank my lecturer, Mr. Azman Ta’a, Director of UUM Computer Center, staff of Computer Center, Mr. Saiful Nizam, Mr. Azmi Abu Seman, Mr. Abdul Razak Jusoh for their information and ideas in developing the system. Not forgotten to my family who gives continuous support and courage in my studies and doing this project.

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<tr>
<td>ASP</td>
<td>Active Server Pages</td>
</tr>
<tr>
<td>DBA</td>
<td>Database Administrator</td>
</tr>
<tr>
<td>DBMS</td>
<td>Database Management System</td>
</tr>
<tr>
<td>DFD</td>
<td>Data Flow Diagram</td>
</tr>
<tr>
<td>ER</td>
<td>Entity Relationship</td>
</tr>
<tr>
<td>E-reserve</td>
<td>Electronic reserve</td>
</tr>
<tr>
<td>ERP</td>
<td>Enterprise Resource Planning</td>
</tr>
<tr>
<td>HTML</td>
<td>Hypertext Markup Language</td>
</tr>
<tr>
<td>HTTP</td>
<td>Hypertext Transfer Protocol</td>
</tr>
<tr>
<td>IIS</td>
<td>Internet Information Server</td>
</tr>
<tr>
<td>IS</td>
<td>Information System</td>
</tr>
<tr>
<td>ISLAN</td>
<td>Integrated Sintok Local Area Network</td>
</tr>
<tr>
<td>MySQL</td>
<td>My Structured Query Language</td>
</tr>
<tr>
<td>OMT</td>
<td>Object Modeling Technique</td>
</tr>
<tr>
<td>OOSE</td>
<td>Object Oriented Software Engineering</td>
</tr>
<tr>
<td>RAM</td>
<td>Random Access Memory</td>
</tr>
<tr>
<td>SA/SD</td>
<td>System Analysis/System Design</td>
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<tr>
<td>SQL</td>
<td>Structured Query Language</td>
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<tr>
<td>SSADM</td>
<td>Structured System Analysis and Design Method</td>
</tr>
<tr>
<td>UML</td>
<td>Unified Modeling Language</td>
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<td>WWW</td>
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CHAPTER ONE

INTRODUCTION

This project is to fulfill upon the request of course Thesis/Project (TZ6996) as one of the graduation requirements for Master Science in Information Technology (MSc. IT) in University Utara Malaysia. The purpose of this project is to generate a model or a prototype of UUM Web-Based Computer Laboratory Reservation System.

This chapter gives an overview of organization, and further discussion about the problem statement, requirements, objectives, significance of the project: and project scope.

1.1 Overview Of Organization

UUM is located at Sintok, Kedah; 48 kilometres of north Alor Setar, the capital of Kedah and 10 kilometres east of Changlun, a small town on the North-South Highway. The university was established to pursuit the development of management education. Its academic programmes focus on such disciplines as management, accountancy, economics, information technology, public administration and human resource development.
The contents of the thesis is for internal user only
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