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Event planner and room booking management system  
(EPRBMS) / Lee Chee Kheng.

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JUDUL: EVENT PLANNER AND ROOM BOOKING MANAGEMENT  
SYSTEM (EPRBMS)

SESI PENGAJIAN: 2004/2005

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^ Thesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

**EVENT PLANNER AND ROOM BOOKING MANAGEMENT SYSTEM  
(EPRBMS)**

LEE CHEE KHENG

This report is submitted in partial fulfillment of the requirements for the  
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**2004**

**ADMISSION**

I admitted that this project title name of  
**EVENT PLANNER AND ROOM BOOKING MANAGEMENT SYSTEM**

is written by me and is my own effort and that no part has been plagiarized without  
citations.

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**DEDICATION**

*Specially dedicated to  
My beloved parents and brothers who have  
encouraged, guided and inspired me throughout my journey of education*

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## ABSTRACT

The Event Planner and Room Booking Management System (EPRBMS) is a web-based application that allows users to access the web and get information through the web. This system was developed for any event organizer who wants to plan an event. It provides the solution for replacing the manual work done to plan an event. The target users for this application are the event organizer and the room booking providers (hotels, universities, government's halls, etc.). Event Planner and Room Booking Management System is basically a centralize system which help the event organizer to manage the event schedule and enable the room and equipments reservation for the event online. The system will act as the "middle man" for both event organizer and room booking provider, as it give an informal inter-connectivity between them. Some literature review has been done to determine the scope, technologies and approaches used in this project. Waterfall Model has been chosen as a methodology for this project and will be implemented along the system development process to ensure the objectives of the project can be fulfilled. The use of chosen methodology has helped to produce a better quality product, in terms of documentation standards, acceptability to the user, maintainability and consistency of software. With the implementation of latest technology such as web services, the system was not only expected to be workable, but also efficient in terms of execution speed and response time. The design of the system was dynamic and was able to support concurrent users to interact with the system over the Internet. The user can utilize the power and global accessibility of the Internet to assist this type of event planning information effectively to attract target event organizer from Malaysia and overseas, as well as complement the government's efforts in event planning field.



## ABSTRAK

*Event Planner and Room Booking Management System (EPRBMS)* adalah satu web aplikasi yang bertujuan untuk memberikan penggunaannya memperoleh maklumat dengan mencapai laman webnya. Sistem ini dibangunkan untuk memberikan penyelesaian kepada *event organizer* untuk menggantikan kerja manual semasa proses perancangan *event*. Sasaran pengguna system ini adalah *event organizer* serta *room provider* (hotel, universiti, dewan kerja dll.). Secara umumnya, *Event Planner and Room Booking Management System* adalah sesuatu sistem *central* dimana ia yang akan membantu *event organizer* untuk mengurus jadual masa *event* dan membenarkan penempahan bilik serta alatan yang diperlukan dengan melalui internet secara online. Sistem ini memainkan peranan orang tengah kepada pihak *event organizer* serta *room provider*. Di samping itu, ia juga memberikan hubungan secara tidak formal kepada kedua-dua pihaknya. Tujuan kajian terutamanya *literature review* adalah untuk mengumpulkan data supaya skop projek dan keperluan projek ini dapat dijangkakan. Kegunaan *methodology* dalam projek ini adalah untuk mengenalpastikan semua keperluan pengguna kegunaann. *Waterfall Model* telah dipilih untuk memastikan semua objektif dalam project ini dapat dipenuhi. Dengan kehebatan teknologi terkini, kegunaann system ini bukan saja seperti apa yang dijangkakan, tetapi ia juga mempunyai *execution speed* dan *response time* yang agak efektif. Sistem ini direkakan secara dinamik untuk menyumbang ramai pengguna internet yang berinteraksi dengan system ini secara serentak. Mereka dapat menggunakan kuasa *global* pencapaian di internet untuk mempercepatkan perancangan informasi *event*. Dengan itu, sistem ini akan menarik sasaran penggunaannya dari Malaysia serta membantu kerjaan dalam segi perancangan *event*.

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### LIST OF ACRONYMS

| ACRONYMS |  | DESCRIPTION                                      |
|----------|--|--|
| .NET     |  | Microsoft dot Net                                |
| ASP      |  | Active Server Pages                              |
| AUT      |  | Application Under Testing                        |
| CGI      |  | Common Gateway Interface                         |
| DSN      |  | Data Source Name                                 |
| ERD      |  | Entity Relationship Diagram                      |
| EPRBMS   |  | Event Planner and Room Booking Management System |
| HTML     |  | Hyper Text Markup Language                       |
| HTTP     |  | Hypertext Transfer Protocol                      |
| IE       |  | Internet Explorer                                |
| IIS      |  | Internet Information Server                      |
| JSP      |  | Java Server Pages                                |
| KUTKM    |  | Kolej Universiti Teknikal Kebangsaan Malaysia    |
| MS       |  | Microsoft  |
| ODBC     |  | Open Database Connectivity                       |
| OOP      |  | Object-Oriented Programming                      |
| RAD      |  | Rapid Application Development Model              |
| SDLC     |  | System Development Life Cycle                    |
| SQL      |  | Structured Query Language                        |
| URL      |  | Uniform Resource Locator                         |
| VB       |  | Visual Basic                                     |
| WBS      |  | Work Breakdown Structure                         |
| XML      |  | Extended Markup Language                         |

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## CHAPTER I

### INTRODUCTION

#### 1.1 Preamble/Overview

This project is to develop an **Event Planner and Room Booking Management System**. The Event Planner and Room Booking Management System implement the web enables technology that provides the solution to replace the manual event planning process. It is a XML based web application system on the .NET framework. The target users for this system are the event organizer and the room-booking providers such as hotels, universities, government's halls, etc.

Event Planner and Room Booking Management System basically is a centralize system which help the event organizer to manage the event schedule and enable the room and equipments reservation for the event online. The system will act as the "middle man" for both event organizer and room booking provider, as it give an informal inter-connectivity between them.

The event organizer is required to fill up all the information required by the system according to the event that he/she will be organizing. Then the system will match the information inputted with the data in the centralized database, which contained the catch data from each of the room booking providers' databases, and display the familiar matched to the event organizer.

## 1.2 Problem Statement(s)

There are many event planner can be found online. But unfortunately these event planner is just a single function event planner which only to help user and event planner to find suitable venue and location only by listing their addresses. User will prefer to use an event planner if it is also coming with the room booking management system where user can plan event and also to book a room at the same time.

This is basically the most common problem that occurs when come to finding an event venue. The event organizer needs to rush from one place to another to get the survey and comparison on which venue is the most convenient for the event attendees, and of cause this includes with a reasonable renting fee. This is very time consuming and may result the event schedule to be postponed.

It is not a promise for an event organizer to get the venue and facilities requested on the event day, as there may be another event going on in the same time on that day, which require the venue and facilities as well. With this problem, current event organizer always needs to wait the confirmation for the venue and the facilities before confirming with the event schedule.

Normally the event schedule will be printed out for the entire committee members that involved in the event preparation a few weeks in advance before the event start. However when there is a slight change in the event program, another amendment schedule need to print out again. This is not efficient, as it consume the usage of unnecessary resources and time.

## 1.3 Objective

This system provides all latest information and updates of venues and details of room booking providers to produce a standardized system. All details of participants of the system will be kept in databases systematically. It is anticipated that this project will result in one of the following.

- **To Develop a Centralize Web Services Enabled System**

The main objective of the project is to develop a combination of the event planner system with room booking application. The system is meant to systematically develop an integrating interface between the event organizer and the room booking providers (hotels, universities, government's hall, etc.), enable them to communicate to each other through web, instead of communicate face to face manually.

- **To Join Two Services Together in a System**

The two services are the event planner and room booking management system. Currently there are not many systems found online where these two interrelated functions are joined together in a same system.

- **To Develop a Standardized System**

This system provides all latest information and updates of venues and details of room booking providers to produce a standardized system. All details of participants of the system will be kept in databases systematically

- **To Accelerate Information Delivery**

It deliver and retrieve information in real-time to teams and individuals. This system also eliminates error-prone data collection and manual entry. It can self update it database, as the system retrieve the data from the outside web services' databases, all the update are done by those web services' administrators and not by the internal administrator(s). So the system database can grow by itself from time to time.

## 1.4 Scopes

This project is to develop an online event planner and Room booking system. The system will have 3 main functions and supports the following scopes:

- **Online User Registration**

Whenever a user comes across the system's URL, he/she will be redirect to the login page. A new user is required to register before he/she can proceed on using the system. After the new user had fill in and submitted the registration form, the user's details will be stored inside the user data store. The user now can login to the system by providing the correct username and password that he/she fills up during registration. This entire process will be developed in Microsoft.Net framework technologies. By using Active Server Page server scripting and Visual Basic.Net object oriented approach, the Microsoft.Net framework is able to build large scale distributed systems for the Internet. It built around the tools and protocols (XML, WSDL, SOAP, and HTTP) that are becoming standard on the Internet. It natively supports XML Web Services.

The Microsoft SQL Server will be used to store user information; the data will be retrieved using SQL queries through ASP.net server scripting. ADO.NET command classes will be chosen to provide a set of methods work against an OLE DB provider or Microsoft SQL Server.

- **Online Event Planner**

When the user submitted the event details to the system, it automatically generates a query, requesting the system to search for the most suitable location for the event to take place. The system will search for the available information inside the cache database and then send the result to the user interface. However if the system cannot find any available information in the cache database, the system will go through to search and retrieve the updated data from the room booking provider's database.