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JUDUL: **ADVERTISING AND RENTAL HOUSE DSS**

SESI PENGAJIAN: **2009/2010**

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ADVERTISING AND RENTAL HOUSE DSS

CHE WAHIDA BINTI CHE PAUZUR

This report is submitted in partial fulfillment of the requirements for the
Bachelor of Computer Science (Software Development)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2009

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DEDICATION

To my beloved parents, supervisor, lecturers, and my friends for giving assistant to complete this project successfully.

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ABSTRACT

Advertising and Rental House DSS is a system developed based on the web based application for any renter to find for renter house. The objective of this development is to ease the difficulty to make the right choice in choosing preferred rental house, time constraints to search and find the information about the rental house. The budget constraints to rent the house base on users requirement and afford, books the rental house manually by contact directly with the owner and make owner difficult to choose the best renter for their house. The main objective is developing DSS for Advertising and Rental House System. This system offer assistant to the renter in choosing rental houses, provide information about rental houses available anytime and anywhere, provide affordable choice for user, allow online booking and develop DSS environment to the owner's house for select the renter. Four users are identifying to access the system. The common user is able to search rental house information. The renter, which is authentication person, those already register as a member and allow proposing the renter house. The owner, which is a person with member status that advertises the information of rental house and system administrator, is person responsible to upgrade the system and develop item base on user requirement. For distinctive features, the systems have several functions such as the owner will select their renter house using DSS technique of Decisions Table technique. The DSS consists of six main modules, which are searching module, register module, login module, advertising module, propose module and decision module. The development of this project used the evolutionary prototyping methodology, Adobe Dreamweaver CS3 as software, PHP as the programming language whereas MySQL is for the database management system.

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ABSTRAK

'Advertising and Rental House System DSS' adalah satu sistem yang dibangunkan berasaskan aplikasi web dimana penyewa boleh mengunakannya untuk mencari rumah sewa. Tujuan sistem ini adalah kesukaran untuk buat pilihan yang tepat bagi memilih rumah sewa, kekangan dari segi masa untuk mencari maklumat serta mencari rumah sewaan itu sendiri, kekangan dari segi bajet untuk membayar sewa rumah mengikut kemampuan dan keperluan individu tersebut, penyewa perlu menghubungi atau berdepan dengan pemilik rumah tersebut untuk mendapatkan kebenaran menyewa rumah meraka dan keadaan ini membuatkan pemilik rumah tersebut sukar untuk membuat keputusan untuk memilik penyewa yang sesuai. Objektif-objektif utama untuk dalam membangunkan *'Advertising and Rental House System DSS'* bagi membantu penyewa dalam memilih rumah sewa, menyediakan maklumat tentang rumah sewa yang boleh didapati bila-bila masa dan di mana sahaja, menyediakan pilihan mengikut kemampuan pengguna, membenarkan tempahan yang dilakukan berasaskan aplikasi atas talian dan membangunkan persekitaran DSS bagi membantu pemilik rumah untuk memilih penyewa. Sebagai skop pengguna bagi sistem ini, empat pengguna telah dikenal pasti untuk dalam mengakses sistem ini. Mereka adalah pengguna biasa yang mencari maklumat tentang rumah sewaan, penyewa merupakan pengguna biasa yang telah mendaftar sebagai ahli serta dibenarkan membuat capaian masuk ke dalam sistem untuk membuat tempahan keatas rumah sewa, pemilik adalah seseorang pengguna yang menjadi ahli dalam mengiklankan maklumat rumah sewaan dan pengendali sistem merupakan individu yang bertanggungjawab untuk meningkatkan keupayaan sistem dan membangunkan sistem berdasarkan keperluan pengguna. Untuk ciri-ciri perbezaan, sistem ini mempunyai beberapa fungsi seperti pemilik akan memilih penyewa rumah mereka menggunakan fungsi DSS. Bagi bahagian Sistem Sokongan Keputusan, sistem ini menggunakan teknik Jadual Keputusan. Sistem ini mengandungi enam modul utama, Modul Carian. Modul Pendaftaran, Modul Capaian Masuk, Modul Pengiklanan, Modul Cadangan dan Modul Keputusan. Bagi proses pembangunan, sistem ini menggunakan kaedah evolusi prototaip, Adobe Dreamweaver CS3 sebagai perisian, PHP sebagai bahasa pengaturcaraan manakala MySQL adalah bagi sistem pengurusan pangkalan data.

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CHAPTER I

INTRODUCTION

1.1 Project Background

Advertising and Rental House System is one of the systems that have already developed by other people or organization, such as rentalads.com and Mudah.my. This system can be Decision Support System (DSS) for any user to search for rental house and owner to select the best renter for their house. This system also can be a booking system but the house owner will make the decision. It is because user can bid which rental house they want with given limited of rate. They can bid many times until the expiration date. Lelong.com.my is one of the website use this concept. Many users can bid what the type house they want, but the winner based on owner's house decision. In addition, this system also allows user to advertise and bid.

This system consists of six main modules includes, Register Module, Login Module, Searching Module, Propose Module, Add Advertising Module and Decision Module. When users want to bid or advertise their rental house, the user must register as a member. An authorized user, allowed interacts with the system. Furthermore, they can search for rental house they need. The system will suggest based on user. If they have interest on renting a house, they must bid as many as they can in a limited of rate that has been provided. The system allows members to bid and repeat it again. The result is based on owner's house decision.

By just surfing the web application, users will have the ability to go through the DSS function and then choose the rental house based on their needs. The DSS

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will respond to their request. This system will help prospect rentals to select the house which is suitable according to a given criteria, which they have chosen based on the information supported by the system. It will also help the owner in term of security protection.

1.2 Problem Statement

Normally renter and house owner receive information and make decision according to their conventional method. It is difficult for renter to make their decision in choosing the best rental house. The problem is as below:

- Difficulty to make the right choice in choosing preferred rental house.
- Time constraints to search and find the information about the rental house.
- Budget constraints to rent the house base on their ability and requirement.
- Difficult to advertise the information about house renter.
- No supportive information for the owner to assist them in making decision.

1.3 Objectives

Based on the problem statement, the main objectives to develop Advertising and Rental House DSS are:

- To offer a system to assist to the renter in choosing rental house.
- To provide information about rental houses available anytime and anywhere.
- To provide affordable choice for user.
- To allow online booking.
- To develop DSS environment for the house owner during the process of renter selection.

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1.4 Scope

Advertising and Rental House DSS is web-based applications that intend to be used for advertises and rent a house. The measurement formulas applied in this application will be based on the existing techniques applied in the current website. This Advertising and Rental House DSS has been classified into several scopes. This system will only limited to house selection located in Malaysia only.

The scopes of users that involve in using this system are user, renter, owner and administrator. In details, there are six (6) module which are includes are register, login, add advertising, searching, propose and decision module.

1.4.1 Scope of User

This system is divided into four categories of user, which are common user, renter and owner's house.

Table 1.1: Scope of User

User	Functionality
Users (common)	For search the information of rent house that already advertised. For comment and suggest the best thing to make the web base more attractive and usable base on user requirement.
Renter	For rent or reserve to rent a house base on their ability. For authorized system administrator for managing information. For find available house to rent.
Owner	For advertise the information of rental house. For search the renter. For make the best and final decision base on system support.
Administrator	For upgrade the system and develop item base on user requirement. For upload news information about the system

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1.4.2 Scope of Functionality

This system is divided into six modules of user, which are user and owner's house.

Table 1.2: Scope of Functionality

Module	Description
Searching	This system provide searching module to help users search the rental house information either by house type and house location.
Register	A new user must register as a member if want to join bid of house's rate. So every time when they want to join, they must sign in with authorization by username and password. So the system can manage and handle user based on their identification.
Login	This system provide login module to verify and validate the right user. Authorized users allow interacting with this system.
Add Advertising	This system provides add advertising module for house's owner to upload specification of rental house. The specification includes house types, location, prices, item that already provides such as television, internet, refrigerator, and furniture.
Propose	The system provides propose module for bid by user or renter for bargain rate of rent base on their own ability. The winner is the users that bargain the higher rate from other user and how much they bid until time stop and base on limit of rate.
Decision	The system provides decision module for owner decide who's that can rental the house. The system will compile and collect data from user and the owner can choose the renter base on data that have show by the system.

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1.4.3 Scope of Platform

Below are the specific project requirements in terms of software, hardware and platform to develop the Advertising and Rental House DSS.

- Operating System - Microsoft Windows XP Pack 2
- Database System - MySQL
- Web Browser - Internet Explorer 7.0 and above
- Software - Adobe Dreamweaver CS3
- Server Side Scripting - Personal Home Page (PHP)
- AppServ - Stand-alone Server

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1.5 Project Significance

Based on the problem statement previously, it is obvious to make the system easier. Advertising and Rental House DSS is already applied on Mudah.my and rentalads.com. Nevertheless, these systems will added by one of the concept that have already implemented in Lelong.com.my. It is bid for reserve to get that property.

The system will promote the rental houses based on house's owner advertisement. The user or renter can find the detail information through the system. The system will also help renter to reduce time and money to search the information by booking and bid by online approach.

The system will help the renter to choose and bid their rental house. With the function of the DSS, the system will attract more prospect house owner to make decisions base on many choice. The system allow user to bid the base on their abilities and make the best decision.

Using this web-based system, the renter should not have to worry about information and data managing. Renter can also get an expert advice in renting house by selecting the house's criteria. The house owners just advertise the best specification to make renter interest to get their property.

1.6 Expected Output

This system is developed to assist users in finding their rental house by make selection through the decision support function for Advertising and Rental House DSS. The renter can bid to get the property they want. The house owner will choose the best renter. The role of administrator is to upgrade the system base on time and impotencies.

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1.7 Conclusion

As a conclusion, the system helps renter to choose the best property to them based on their ability and the house owner. It is expected to make easier by upload the house specification. The administrator is the person who their work is for looking and managing the environment. They also concern about the rental house information and that will reduce the budget.

This chapter has explained the whole function of the system and how it should work. The next chapter will discuss on literature review of the project and the methodology that is use in developing the system.

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