OCCUPANT MANAGEMENT SYSTEM OF ELDERLY WELFARE FOR RUMAH SERI KENANGAN (RSK), CHENG, MELAKA

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OCCUPANT MANAGEMENT SYSTEM OF ELDERLY WELFARE FOR RUMAH SERI KENANGAN (RSK), CHENG MELAKA

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This report is submitted in partial fulfilment of the requirement for Bachelor of Computer Science (Database Management)

FACULTY OF INFORMATION TECHNOLOGY AND COMMUNICATION
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

2016

DECLARATION

I hereby declare that this report entitled

OCCUPANT MANAGEMENT SYSTEM OF ELDERLY WELFARE FOR RUMAH SERI KENANGAN (RSK), CHENG MELAKA

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

STUDENT : Khairani Date: 19/8/2016

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SUPERVISOR : Date: 19/8/2016

(DR. NORASWALIZA BINTI ABDULLAH)

DEDICATION

To my beloved parents

my supervisor and lecturers

and also to all my friends.

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ABSTRACT

Occupant Management System of Elderly Welfare is a system developed specifically for the staff working at Rumah Seri Kenangan (RSK) Cheng, Melaka. At present, this institution uses manual methods to manage all the information including the forms for registration and Microsoft Excel to generate reports. For this reasons, I came out with this system that will assist staffs in providing information in a systematic way that will help the staffs to save time and energy. This system will also help staff to find information in a short time without having to search manually from manual file. This system helps staffs to generate more accurate reports. The purpose of this system is to reduce response time in searching records, the accuracy of the reports generated and reduce paper consumption. OMS is developed using system development life cycle (SDLC). Rapid Application Development model has been selected as a model project methodology. The system is developed using Hypertext Processor (PHP), WAMP Server and MySQL database. Entity relationship diagram (ERD) and data flow diagram (DFD) is used to design the system in order to make the system process easy to understand. While completing the system, some of the strengths and weaknesses were identified and suggestions on how to improve the quality of the system in future will be listed at the end of project report.

ABSTRAK

Sistem Pengurusan Penghuni Warga Emas merupakan sistem yang dibangunkan khas untuk kakitangan yang bekerja di Rumah Seri Kenangan (RSK) Cheng, Melaka. Pada masa ini, institusi ini menggunakan kaedah manual dalam menguruskan semua maklumat termasuk menggunakan borang untuk pendaftaran dan Microsoft excel untuk menjana laporan. Atas sebab-sebab tersebut, saya keluar dengan sistem ini yang akan membantu kakitangan dalam menyediakan maklumat dengan cara yang sistematik yang akan membantu kakitangan dalam menjimatkan masa dan tenaga. Sistem ini juga akan membantu kakitangan untuk mencari maklumat dalam masa yang singkat tanpa perlu mencari secara manual. Sistem ini dapat membantu kakitangan dalam menjana laporan yang lebih tepat. Tujuan sistem ini adalah untuk mengurangkan tindak balas masa dalam mencari rekod, ketepatan laporan yang dihasilkan dan mengurangkan penggunaan kertas. Sistem ini dibangunkan untuk menyelesaikan masalah yang dihadapi. OMS dibangunkan menggunakan kitaran hayat pembangunan sistem (SDLC). Model Pembangunan Aplikasi Rapid telah dipilih sebagai model metodologi projek. Sistem keseluruhan adalah menggunakan Pemproses Hiperteks (PHP), WAMP Server dan pangkalan data MySQL. Entiti hubungan rajah (ERD) dan rajah aliran data (DFD) adalah reka bentuk yang direka untuk membuat aliran sistem lebih mudah difahami. Sambil menyelesaikan sistem, beberapa kekuatan dan kelemahan telah dikenal pasti dan cadangan bagaimana untuk meningkatkan kualiti sistem pada masa akan datang akan dinyatakan pada akhir laporan projek.

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LIST OF ABBREVIATIONS

OMS		Occupant Management System
RSK		Rumah Seri Kenangan
ERD	-	Entity Relationship Diagram
DFD	-	Data Flow Diagram
DBMS	-	Database Management System
SDLC	-	System Development Life Cycle
DLC	-	Data Control Language
DDL	-	Data Definition Language
DML	-	Data Manipulation Language
GUI	-	Graphical User Interface
PHP	-	Hypertext Pre-processor
RAM	-	Random Access Memory
CPU	-	Control Processor Unit

LIST OF ATTACHMENTS

CHAPTER I

INTRODUCTION

1.1 Project Background

The system that is developed called Occupant Management System of Elderly Welfare. This system is specially built for staffs that work at Rumah Seri Kenangan (RSK) Cheng, Melaka. Currently, this RSK have about 70 staffs who work in there and the total number of occupants that live in there is about 170 people. All occupants come from different background with different gender, race, religion and others. There are many reasons on why they need to lives in that welfare.

Currently, the staffs that work on the welfare need to register records of occupants manually by recording their information in a log book for each occupant. They also need to check the availability of dormitory whether if there is any empty room or not for new occupants to stay which it will take a longer time for staff to check it. The staffs also need to manage all the information about each occupant that lives in there such as their personal background including their next of kin, their health and others. Currently, they need to manage it manually because they do not have a computerized system to manage those records.

Manual processing of the information will cause problems such as inaccurate information. For an example, the staffs need to search one by one of the log book to find information about the occupant which it will take a lot of times. Currently, if the staffs want to produce some reports about occupant such as monthly report of the number of occupants by gender who registers in the welfare, they need to produce it manually. The report will be generated using Microsoft excel which sometimes the information of the report is not tally with the real data.

1.2 Problem Statements

i. Problem with data storage.

Records are not well-managed and a lot of redundancy exists. Previous system only records the information in the logbook which leads to data redundancy problem. Consequently, the results of reports generated are inaccurate.

ii. Difficult to search data and view information

It takes a long time for staff to search specific information. For example, as occupant's data are recorded in a log book, searching for specific information is tedious and time consuming. It also difficult for staff to manage their work schedules. The staffs need to go to the office to check their schedule which waste the staff's time.

iii. Difficult to generate report

Currently, the report being produced using Microsoft Excels. For example, monthly report of the number of occupants by gender who register in the welfare is calculated manually. As the data is manually transferred from the logbook, some mistakes from staffs that are responsible in handling it might happen. This will produce wrong information on the report.

1.3 Objectives

i. To develop a computerized system that ease staff to manage information's and removing data redundancy problem.
ii. To ease staff to search and view specific information in a shortest time.
iii. To help staff to generate accurate report about occupants and staffs.

1.4 Project Scope

The scopes of the Occupant Management System will focus on two major parts which are user and system. Focus on user is based on user using the system. Meanwhile, the focuses on systems are divided into several modules that related with system that will be developed. The scopes are:

1.4.1 Scope-of-user

- The Admin
  - View, add and modify the record information of the Elderly Welfare.
  - Manage staff information's.

- The staffs of RSK
  - View and modify the record information of the Elderly Welfare.
  - View their work schedule
  - View reports

- Public
  - View info about RSK

1.4.2 Scope-of-system

i. Login

Login module is developed to allow user access the system. Admin and staff can log in to the system using staff Id and password. Admin and staffs cannot access the system if the staff Id or password incorrect.

ii. Registration

Admin can register new occupants and staffs in the system and they can check either people have been registered or not before make a new registration.

iii. Manage Occupant

Admin can manage occupant's information including adding new health record or new family information and also updating their information or deleting old information from the record.

iv. Assign Work Schedule

Admin can assign a work schedule to the staff so that staff will be more aware with their schedule.

v. Manage Appointment

Admin can manage occupant's appointment including the date, time, location of an appointment and also staff who are responsible to take care of that occupants during that appointment.

vi. Searching

Admin and staff can search and view all records in the system such as searching for occupant information that has registered based on year 2015

vii. Add /Update/Delete/View record

Admin can view, add, update and delete the record in the system. The valid changes will be saving in the database. While staff can only update their information and view their work schedule.

viii. Generate report

Admin and staff can view all the report in the system for further information. For example, report on how many male occupant that have been registered in year 2016.

1.5 Project Significance

The significance of this project is by providing a system that can manage occupant's information in a systematic way. Other than that, it also helps the staff to manage their work schedules in an easy way without wasting their time and energy. This system also can generate reports required by the RSK management.

1.6 Expected Output

This system can generate accurate monthly or yearly reports about occupants and staffs in tabular format and graph which can be printed through the system. Other output is occupants monitoring screen for the administrator to keep track daily registration of occupants. Information about occupants and staffs are displayed using those queries such as their background info, their family info and their health info. Works Schedule can also be searching and display easily and efficiency using this system.