RENTAL VEHICLE SYSTEM

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA
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RENTAL VEHICLE SYSTEM

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2007
DECLARATION

I hereby declare that this project report entitled

RENTAL VEHICLE SYSTEM

is written by me and is my own effort and that no part has been plagiarized

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DEDICATION

A special dedication goes to my beloved parents Mr. Rezuan bin Sulaiman and Mdm Zaiton binti Hj Nek because giving support in completing my final year project which is entitled Rental Vehicle System (RVS).

I also would like to dedicate to the people who help and support direct or indirect in finishing my project successfully.
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Last but no least, to all might have involved directly or indirectly in developing this system is much appreciated and a note of thanks from me.
ABSTRACT

This project is about developing a system for managing the rental car based on the user’s demand. This to-be system called Rental Vehicle System (RVS). This system concerns on booking a rental car for their usage while the tourist going for holiday at Langkawi. The RVS will be developed by using the computerized system to obtain the advantage of the technological use. There will be giving higher security in managing data, faster in accessing data, and the systematic of data management. The RVS is going to be used by three different users, which are Administrators, Company, and Users. RVS is developed using PHP as the programming language and MySQL as the database. Therefore, this to-be system may help the management goes well in pursuing the successful data access.
ABSTRAK

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LIST OF ABBREVIATIONS

RVS  Rental Vehicle System
DBMS Database Management System
SSADM Structured Systems Analysis and Design Methodology
PHP Personal Home Page
LDS Logical Data Structure
DFD Data Flow Diagram
DBLC Database Life Cycle
ERD Entity Relationship Diagram
NIC Network Interface Card
RAM Random Access Memory
PSM Projek Sarjana Muda
OS Operating System
LAN Local Area Network
WAN Wide Area Network
NF Normal Form
PK Primary Key
FK Foreign Key
RDBMS Relational Database Management System
<table>
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<td>SQL</td>
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CHAPTER 1

INTRODUCTION

1.1 Project Background

Rental Car Company uses manually system to manage their company management and it is limit to the staff and manager. So, the system is functioned when a customer or tourist made a call to make a reservation to rent a car and when staff filled in the name of the tourist and the type of car that they want to rent. The other ways they make to rent a car is the customer or tourist just drop by at the registration counter and just fill a rental car form.

Besides that, the customer or tourist just can rent a car. It is because certain car rental company doesn’t provide a van or trucks. Besides that, if they want to rent other type of vehicle such as motorcycle or a boat for private use, they need to go the other company to rent the type of vehicle that they want. Basically, the water vehicle will provide by the hotel that the customer or tourist stayed.

To overcome this problem, one system will be developed which is Rental Vehicle System (RVS). This system is a web based system that developed to make an online reservation to rent a vehicle. In the other meaning, it will operate online. This system is developed to be used by the company that provides a rental vehicle to their customer or tourist.
This project will submit the user requirements and take the vehicle’s reservation from the customer. So that, when customer attends to the car rental company, they do not have to register again. The staff will only check the reservation list to make sure that the customer is already reserve a vehicle. The deposit payment also can be done at the counter, so that customer’s bank account will be safer instead of paying online. The new system must be built to help this car rental company to manage its workers, clients and also to be known by other people.

This project is giving the experience about develop a website and also gives the skills of manages a database.

1.2 Problem Statement

A new system must be developed to enhance the current system. This is because the current system is lack of function in the following aspect:

1. **Hard to reserve a car**

   The current system is used just to store about the client information as they are going to the company car rental. For reservation, clients have to call and clerk takes long time to record the data.

2. **Leak of security or unauthorized user**

   All staffs and also the manager can access the same information. There are no security aspects in the manual system because staff can view the data that only the administrator should know about. Besides that, other people also can access or change the information.
3. **Use a lot of paper to save a data**

   The customer records, receipt or bill, reports and others are all save in paper. It will cost a lot of money to buy a paper. Besides that, by using a paper, the high of loose it is high.

4. **Difficult to access information when admin need the client record**

   By using file system, it gives difficulties to admin to retrieve the record. In this situation, the Rental Vehicle System (RVS) will give opportunities to admin

5. **Have a problem while make a calculation during the payment**

   Human is not perfect so they are chances of making a mistakes, especially when record the information and doing the calculation. So by using the system can reduce this problem.

1.3 **Objective**

The objective of this project is to enhance the current system especially to add some functionality that the customer will obviously like about it. There are a few goals that will be achieved in this project:

1. **To make the management more efficient**

   The management process will become easier and faster. The computerize system can help rental vehicle company to solve the problem that occur in their management process.
2. **To develop an online system**
   Customer can make a reservation to rent a car by online. Besides that, before the customer want to rent the vehicle, they can also know about the type of car that the company provides the package that the company offered.

3. **To reduce a paper using**
   All the customer record, bill or receipt, report will be key in the computer. So, there no more paper usage to store all the data.

4. **To make the cost registration efficient**
   All the calculation for the payment will be easier. The system will automatically calculate the price that needs to be paid and it will reduce a mistake during the calculation.

5. **To build a secure system**
   As the system will be operated online, staff can be login only with a correct password. So, other Internet user cannot login easily and other information will be stored safely.

1.4 **Scope**

The scope of this project includes the target user, function of the system and also the technology included.
1.4.1 User

1. Admin
Admin is capable to maintained and solve the problem that occur in the system.

2. Staff
The staff that works at the reservation table will get information from client and view reservation form to ensures that the client has reserve any vehicle during the time the client come to take the vehicle rent.

3. Client
Client is the internet users that will browse the website to get the information about the car rental company and make a reservation for a specific vehicle.

1.4.2 Function

1. Login module
Staff are required to login before the can access to the system. The staff’s username and password are required. They then will be verified and it is the correct staff, they will allow to access to the system.

2. Staff module
Staff can search information about the client and also fill the data about the client such as payment.

3. Customer module
Customer module can make a reservation and view the information of the car rental company cost for the vehicle that will be rent, the facilities, service and package offered at a time.