



BSc (Hons) in Computer Science via GDSE

Module Code ITS1066

Professional Software Project in IT

Car Rental Management System

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Content

No	Title	Page
1.0	Introduction	3
1.1	Organizational Structure	3
1.2	Employee Hierarchy	4
2.0	Problem in brief	4
2.1	IT Solution	4
2.2	Identified Issues	5
2.3	Suggestions	5
2.4	Hardware Requirements	6
3.0	Use Case Diagram	6
4.0	Entity Relationship Diagram	7

List of Figures

No	Title	Page
Figure 1.1	Employee Hierarchy	4

List of Abbreviation

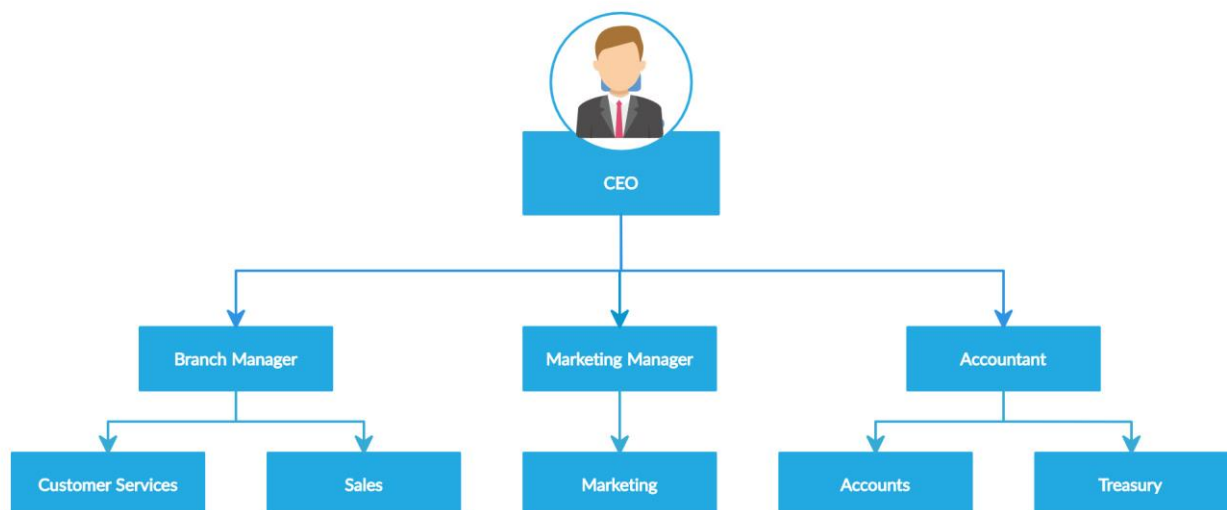
CR – Car Rental
CHRC – CH Rent Car

1.1 Introduction

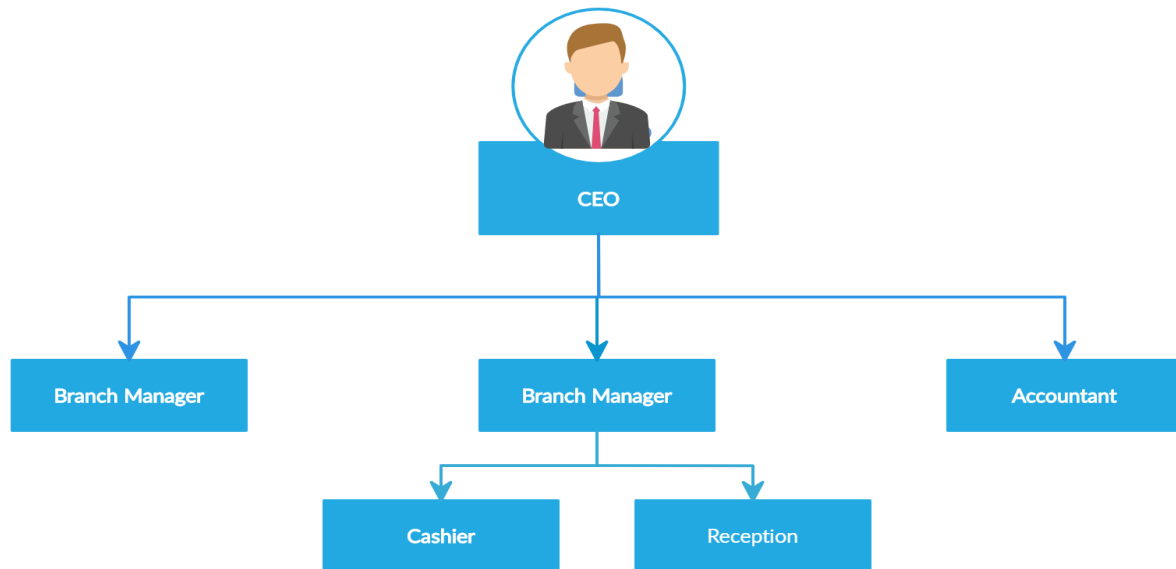
CR is an integral part of many people's travel plans and used all around the world to travel from place to place. Whether travelling on business, journeying with the family or simply on holiday wanting to explore, car rental services are extremely helpful.

CHRC is a one of leading car rental company. The company is located in Kegalle Town, in front of Sampath Bank. CHRC company has one branch in Mawanella Town. At branch cars are available for rental. Mawanella branch has a manager and receptions. It was established 2017 by the name CH Rent Car. Currently company has 8 employees.

1.2 Organizational Structure



1.2 Employee Hierarchy



2.0 Problem in brief

The current system has many problems in relation to database management, since it is manual system. If we use manual system, we can't manage data quickly and easily. It takes much time.

2.1 IT Solution

This system only for vehicle rental company. It can manage details of vehicles, customers, payments and insurance. And employee can search quickly, whatever customer wants.

The company can also retrieve old information related to a particular day or service or vehicle, such as vehicle history, information about an old booking.

2.2 Identified Issues

- Data Security is not assured - This is due to the manual way of recording the data. It is known that, in manual way, data are being stored by recording it on paper. Therefore, it easily gets damage or misplaced that which lead to data loss.
- Performance
 - ✓ Since the office performs recording customer information manually, it takes much time.
 - ✓ Searching and data retrieving mechanism of the system takes a lot of time.
- Input
 - ✓ Data collection is not accurate and it is not based on timely manner.
 - ✓ It is difficult to add, replace, delete and edit the required information.
 - ✓ Checking the validity of input data is difficult.
- Output
 - ✓ Since information is not collected timely and accurately, the output is not precise and on time.
 - ✓ Processing the input data in order to get an output takes much time because of the manual system.
 - ✓ It is difficult to check whether the output data is valid or invalid.
- Stored Data
 - ✓ The data stored takes more cabinet.
 - ✓ In addition to this it is difficult in order to add some additional requirements to the existing system's stored data (i.e. it is not flexible).
 - ✓ There is the loss of data when storage place gets natural disaster as well as man-made problems (like fire).

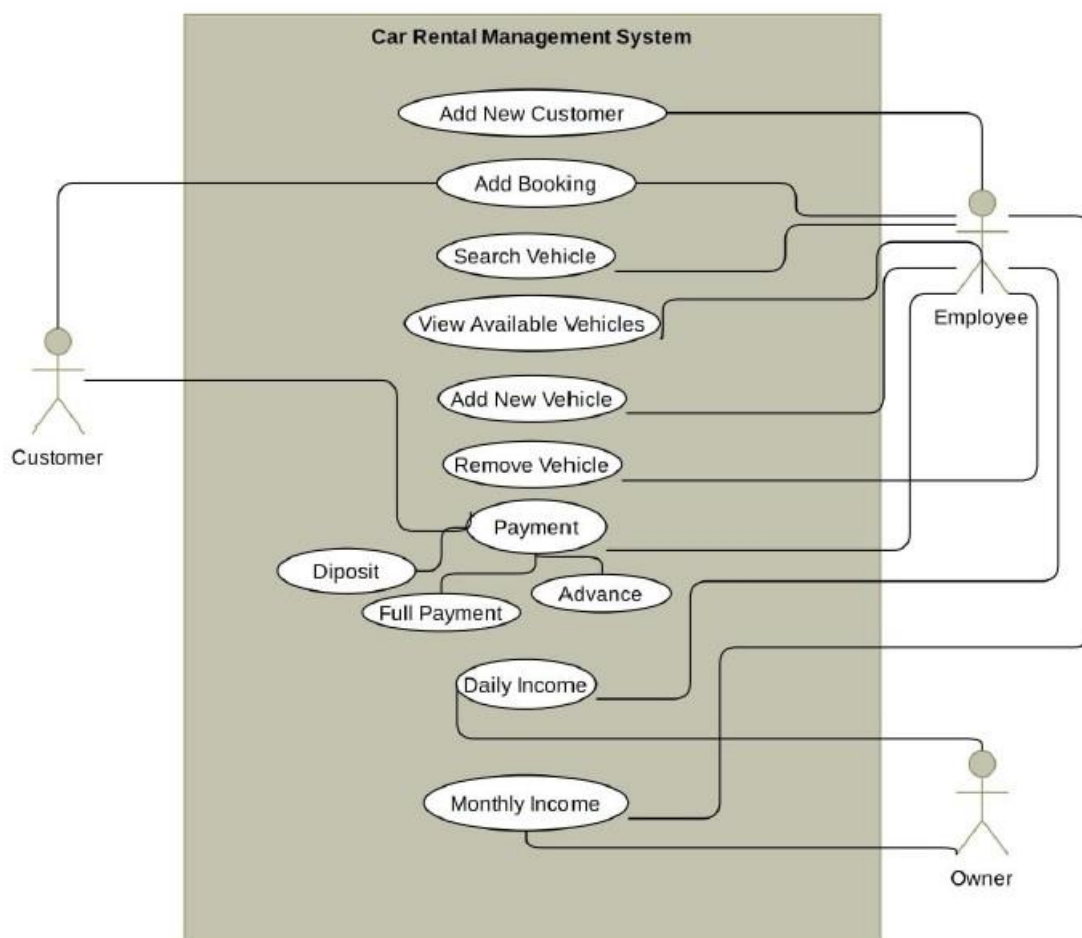
2.3 Suggestions

- Save the all information in a digital media.
- Manage payments from the correct calculations by the system.
- The daily, monthly, yearly profit must can view on system.
- System can avoid lot of mistakes of business.

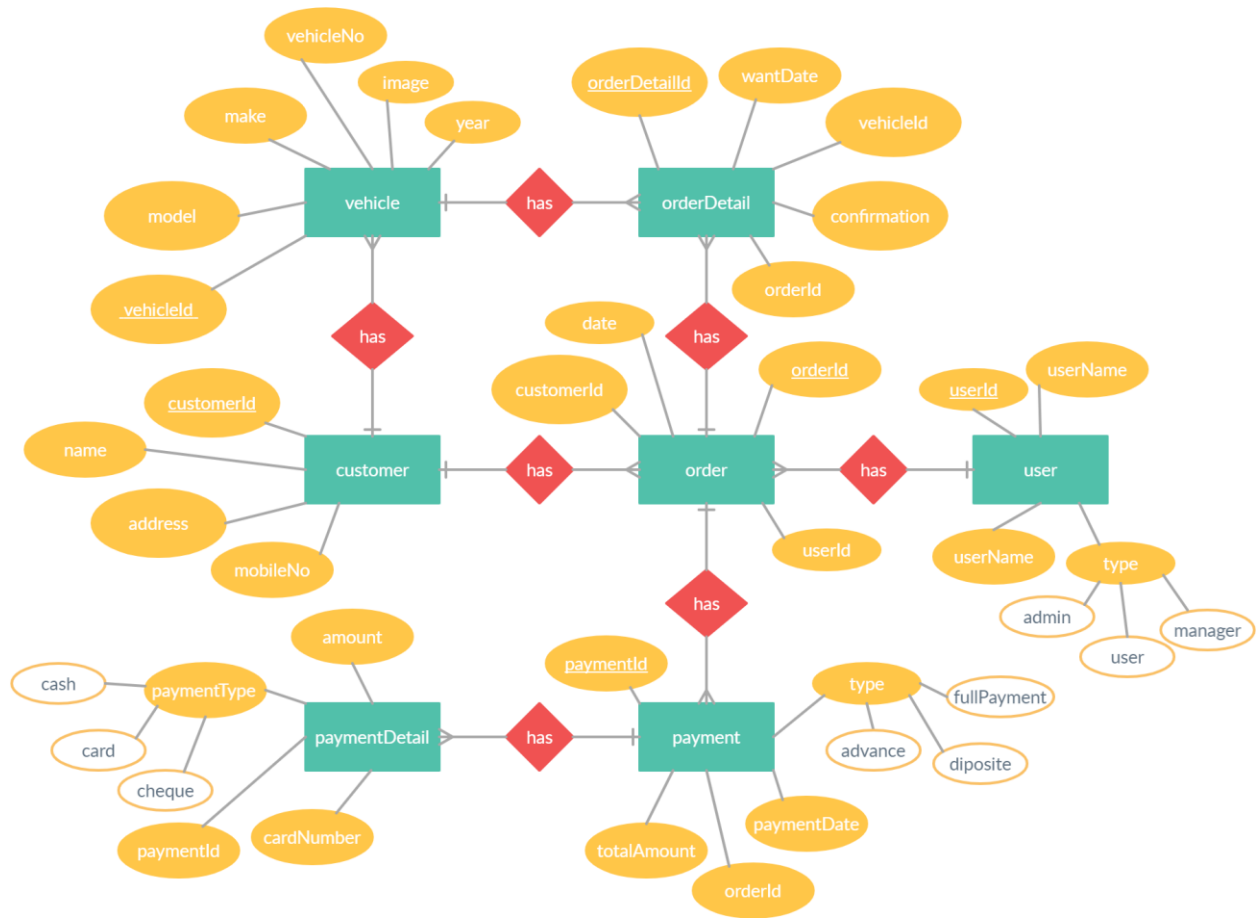
2.4 Hardware Requirements

No	Type Of Hardware	Use	Quantity
1	Laptop Computer	To write and edit documentation and implementation	3
2	8 GB Flash disk	To transfer file	2
3	Printer	To print document	1
4	8 GB Hard disk Memory	For back up	1
5	Smart Phone	For internet	2

3.1 Use Case Diagram



3.1 Entity Relationship Diagram



References -

Academia -

[https://www.academia.edu/30892202/Final Project Title Web Based Car Rent Management System For Hayelom](https://www.academia.edu/30892202/Final_Project_Title_Web_Based_Car_Rent_Management_System_For_Hayelom)

Createely.com - <https://app.createely.com/diagram/yMOxTWEFXyh/edit>

Paradigm.com - <https://online.visual-paradigm.com/app/diagrams/#diagram:proj=0&type=Use>