**CAR RENTAL AND MANAGEMENT**

**PROJECT REPORT**

(Project Semester July-December 2023)

**Submitted by:**

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Program - CSE

Section – K23QA

Course Code – CSE326

Under the Guidance of: -

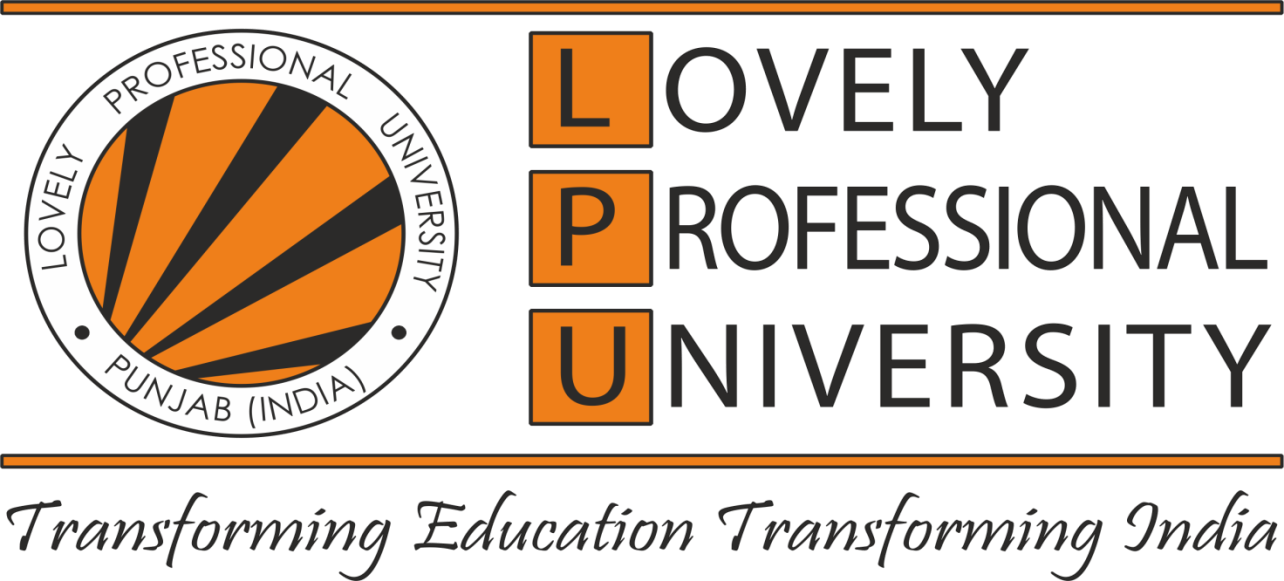
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**Discipline of CSE/IT**

**School of Computer Science and Engineering**

**Lovely Professional University, Phagwara**





FINAL REPORT

**Title: Car rental and management**

**NAME: Shruti Kumari**

**REG. No.: 12311792**

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**Submitted To: - Mr. Irfan Ramzan Parray**

**DECLARATION**

I hereby declare that I have completed my project on **Car Rental and Mnagement** under the guidance of **Mr. Irfan Ramzan Parray**. I have declared that I worked with full dedication and my learning outcomes fulfil the requirements of Lovely Professional University, Phagwara.

**Shruti Kumari**

**12311792**

**ACKNOWLEDGMENT**

I would like to express my special thanks **Mr. Irfan Ramzan Parray** for his immense support and guidance throughout the project. Without his kind direction and proper guidance this study would have been a little success. In every phase of this project his supervision and guidance shaped this project to be completed perfectly. I would also like to express my gratitude to our Lovely Professional University for providing me with all those facilities which were required in learning and gaining.

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**Car rental and management**

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**Abstract:** A car rental is a vehicle that can be used temporarily for a period of time with a fee. Renting a car assists people to get around even when they do not have access to their own personal vehicle or don't own a vehicle at all. The individual who wants to rent a car must first contact the car rental company for the desire vehicle. This can be done online. At this point, this person must supply some information such as dates of rental, and type of car. After these details are worked out, the individual renting the car must present a valid Identification Card. Most companies throughout the industry make a profit based of the type of cars that are rented. The rental cars are categorized into economy, compact, compact premium, premium and luxury. And customers are free to choose any car of their choice based on their purse and availability of such car at the time of reservation.

***1.0 Introduction***

This Car Rental System project is designed to aid the car rental company to enable renting of cars through an online system. It helps the users to search for available cars view profile and book the cars for the time period. It has a user-friendly interface which helps the user to check for cars and rent them for the period specified. They could also make payment online. The rental cars shall be categorized into economy, premium etc. Based on the type of car required by the customer, the user shall be able to make bookings. The use of internet technology has made it easy for the customers to rent a car any time. This Car Rental System makes the bookings easy. It saves time and labor. The tool shall ask the user for information such as the date and time of journey, type of car etc. Also, it will need an identification number. Using these details, the tool shall help the customer to book a car for the journey.

* 1. **Introduction and Background**

Car rental system (CRS) is a web-based system for a company that rents out cars. This system

enables the company to make their services available to the public through the internet and also keep records about their services. This is a company that rents automobiles for a short period of time for a few days or week. Car rental companies operate by purchasing or leasing a number of a fee. To make this service more popular and accessible to the public it has been transform into a web base system and connected to the internet were everyone can be able to have access to it. To develop a web-based system that will help manage the business transactions of car renting.

Rental fleets can be structured in several ways they can be owned outright, they can be leased, or they can be owned under a guaranteed buy-back program arranged directly through a manufacturer or manufacturer’s financial arm.

**1.2 Project scope**

The car rental system project has the scope of online application, by searching cars online and

customer can book the car. We will be a growth-oriented car rental organization by efficiently serving value-conscious customers for all of their car rental occasions. The functions which cover in this project are we are focusing on making rent car and online reserve.

***2.0 0bjective of the project:***

The objectives of this project are:

•To develop a web-based system that will help manage the business transactions of car

renting.

•To help in advertising the car rental services of a company, through the availability of

the system online.

**2.2 Specific project goals:**

In this car rental system, we are going to introduce online booking of car rent will be available.

So, the Burdon of the customer will be reduced. Our Aim is to design and create a data.

management System for a car rental company. This enables admin can rent a vehicle that can be used by a customer by paying the money during a Specified Period of time. This system

increases customer retention and simplify vehicle and staff Management in an efficient way.

•This software car Rental System has a very user-friendly interface. Thus, the users will

feel very easy to work on it. By using this system admin can manage their rental,

payment, employment issues and vehicle issues such as and insurance. The car

information can be added to the system by admin.

•And admin will decide the money for car rent it bases on the day. Vehicle replacement

is available if any problem that occurs in the vehicle.

**2.3 Direct Customers/ Beneficiaries of the Project:**

The beneficiaries of the project are as follows:

Convenient to use:

This system helps a lot and provides a convenient service in booking the cars for rental.

Customers can directly see the information about all cars available for them and the prices.

Reliability:

The car rental system allows only the authenticated users in with the integration of the secured payment gateway the transaction becomes safe and reliable. This system built with the effective multiple modules so the data will be secured securely.

Vehicle management:

With car rental system it easy connects riders and car owner can control and manage the vehicle, also find, and track the status of the car. It includes owner and rider management, seamless booking, detailed listing and earning report.

High security:

The system should provide high level security and integrity of data. Only authorized person of the system can access the system. An enquiry is easily done by user in the system.

User satisfaction level:

This system gives each and every service to customer at their doorstep. They can book, visit, and enjoy the travel.

***3.0 Features:***

Car rental system gives the following features to the customer:

•Registration

In this system user have to become a registered user to rent a car. User has to fill up his

contact information like name, address, mobile number in the registration form.

• Online booking

Online booking is a great feature that gives an access to customer to book their favourite

cars. Customer can directly see the information about all the cars available for them and

prices.

•Less paper work

By using this, it is easy to organize all the data, useful stuffs, invoices, rental agreements.

•Accurate information

This system should provide up-to-date accurate information at any time. Increase

processing speed and avoid errors.

•Date scheduling

User can select the date of car booking. To book a car on selected date he/she has to give

pick up place information and drop of place information.

•Booking confirmation by SMS and email

When your car booking is confirmed then you will get a confirmation message on your

given mobile number. In this message, you will also get the amount that you paid for the

booking.

***4.0 Exsisting system drawbacks:***

An existing system can provide manually paper work or excel sheet to track the booking and

registered vehicles details. The user has to go in the office where the user can get the car on rent and book their car. Most of the time user does not get a sight of the car in which he is planning to travel. This results in compromising the travel comfort. In the existing system, you cannot provide feedback of the user to the admin directly. The user gets fluctuation every time he/she travels. Maintaining excel sheet or paper book record of reservation is very laborious work. Chances of error are more. No automation involves which means they are a very slow to process.

**Top of Form**

**3.1 Vision Document:**

We will be a growth-oriented car rental association by efficiently serving value-conscious clients for all of their car rental events. We will constantly deliver a quality product, friendly service and great value that makes customers assured that Cost-effective is their best car rental choice. The development in Information Technology and internet penetration has greatly improved various corporate processes and communication between services providers and their customers of which car rental market is not left out. The Internet connects us across the globe. This means if we start using Renting software like Car Rental System, we would able to increase our business. This would help us to connect the global world instead of limiting our services to our local domain alone, thus increase their return on investment (ROI). No more office visit, No more phone call. Just Open App, browse through cars, select and book. This would save the customer time and provide them best service in their range.

***4.0 Conclusion***

To develop a system of CAR RENTAL MANAGEMENT by completely focusing on customer, our employees, growth, innovation, and efficiency. All of these elements will drive us toward success. The process on searching the client’s details is slow if it uses manual system and there are thousands of clients. Besides that, staffs have to record the booking manually and it is difficult to improve a monthly report or an annual report. However, this project has strategic backup system for any eventually. Vehicles are well maintained and tested for delivering optimum and uninterrupted performance.

**2.3 Software Code**

The clap activated switching device function properly by responding to both hand claps at

about three to four meter away and finger tap sound at very close range, since both are low

frequency sounds and produce the same pulse wave features. The resulting device is

realizable, has good reliability and it9s relatively inexpensive. Assemble the circuit on a

general-purpose PCB and enclose it in a suitable box. This circuit is very useful in field of

electronic circuits. By using some modification it area of application can be extended in

various fields. It can be used to raised alarm in security system with a noise ,and also used at

the place where silence needed

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