

# Car Rental using PHP and MySQL

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**Abstract:** *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. This system increases customer retention and simplify vehicle and staff management is 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 admin can manage customer confirm and cancel booking request, customer testimonials, and customer issues. There is no delay in the availability of any car information, whenever needed, car information can be captured very quickly and easily.*

**Keywords:** Booking Management, Customer Management, Mobile Compatibility, Reporting and Analytics, Testing and Quality Assurance

## I. INTRODUCTION

Car rental project using PHP is a web based application. It is a system design especially for large, premium and small car rental business. The car rental system provides complete functionality of listing and booking car. A car rental reservation system (CRSS) is an online or offline software tool that allows customers to book rental vehicles and make reservations. These systems often include features like: Search: Customers can search for cars available for rental at a specific location and date. Car rental companies operate by purchasing or leasing a number fleet vehicles and renting them to their customers for a fee. Rental fleets can be structured in several ways – they can be owned outright (these are known as 'risk vehicles' because the car rental operator is taking a risk on how much the vehicle will be sold for when it is removed from service), 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 (these are known as 'repurchase vehicles' because the manufacturer outlines the exact price of original sale and of repurchase at the end of a defined term).

### 1.1 PROBLEM STATEMENT

A car rental is a vehicle that can be used temporarily for a fee during a specified period. Getting a rental car helps people get around despite the fact they do not have access to their own personal vehicle or don't own a vehicle at all. The individual who needs a car must contact a rental car company and contract out for a vehicle. This system increases customer retention and simplify vehicle and staff management.

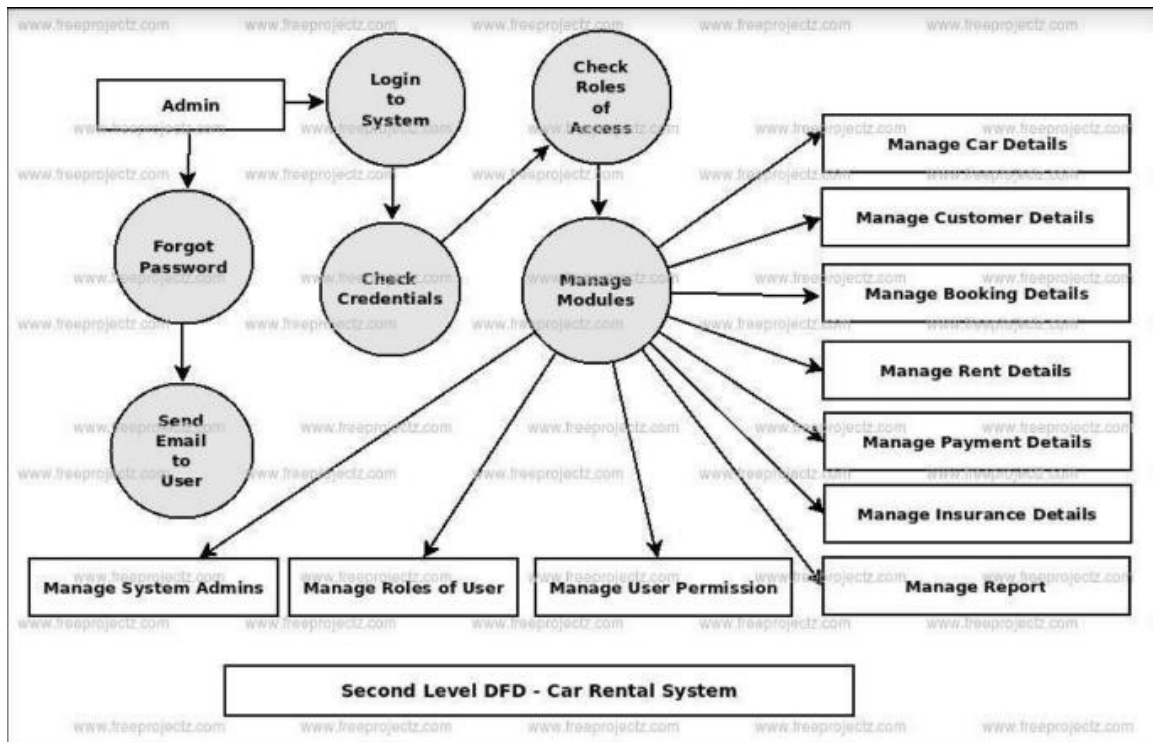
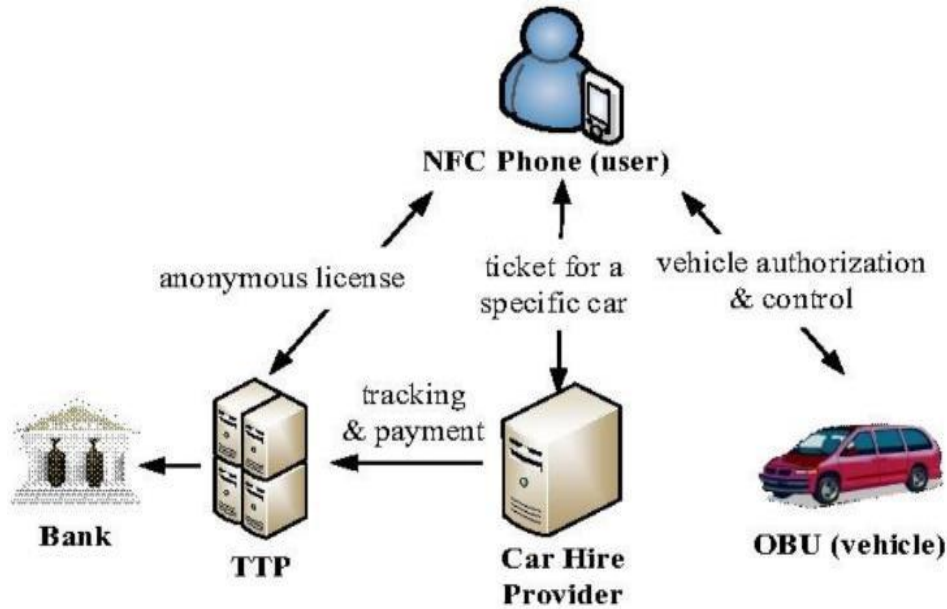
### 1.2 PROPOSED SYSTEM

The new system is totally computerized system. A new system provides features like time efficiency to show car details, user profiles and whatever the customer will give the feedback to the admin. This system provides tourism and travelling facilities. An inquiry is easily done by user in the system. It is the most software application for managing online car rental business. By analyzing users' transaction patterns and behaviors, the system can identify deviations or anomalies that may indicate potential fraudulent activities. Data mining algorithms are employed to detect suspicious patterns, such as unusual transaction amounts, unusual locations, or frequent transactions outside the user's typical behavior. Upon detecting such deviations, the system can take proactive measures, such as blocking suspicious transactions, alerting users for verification, or escalating alerts to security teams for further investigation.

The user has to go in the office where user can get the car on rent and book their car. In the existing system you cannot provide feedback of the user to the admin online. However, using master keys poses risks as they lack OTP generation

and can be exploited if hacked. This system also lacks proactive measures to prevent initial card detail hacking and relies on post-transaction inspections for anomalies, highlighting its vulnerabilities.

**II. SYSTEM ARCHITECTURE**



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 want 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 has to 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.

### **III. BENEFITS OF ONLINE CAR RENTAL SERVICES**

- This online car rental solution is fully functional and flexible
- It is very easy to use.
- This online car rental system helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labour.
- Eco-friendly: The monitoring of the vehicle activity and the overall business becomes easy and includes the least of paper work.
- The software acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the customers.
- It provides custom features development and support with the software.

### **IV. FUTURE ENHANCEMENT**

- Add new car is representing the car list.
- The User payment for the current receipt of the payment.
- Add the current project for booking easy.

### **V. CONCLUSION**

The project titled as Car Rental Portal was deeply studied and analyzed to design the code and implement. It was done under the guidance of the experienced project guide. All the current requirements and possibilities have been taken care during the project time. Car Rental Portal is a web based application which manages and handles the people who booked the cars online.

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