

# GLA UNIVERSITY, MATHURA



## TOPIC: MINI-PROJECT SYNOPSIS ON - VEHICLE RENTAL SYSTEM

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# **INTRODUCTION**

## **PROJECT NAME:- VEHICLE RENTAL SYSTEM**

VEHICLE RENTAL SYSTEM (VRS) is a web based system for a company that rents out Vehicles. This system enables the company to make their services available to the public through the internet and also keep records about their services.

The starting point of Vehicle renting is really unknown as said by Thomas Pretty; he also mentioned many beliefs that Joe Saunders was the first man to start a Vehicle renting company. According to Thomas Pretty, charges were calculated with the help of a mileage tracking device. Many people became interested in the Vehicle rental business and hence got involved. Vehicle renting became more popular as years passed by. Today Vehicle renting services are found all over the world, especially in the developed and developing countries. To make this service more popular and accessible to the public it has been transformed into a web base system and connected to the internet where everyone can be able to have access to it.

## **EXISTING SYSTEM**

A Vehicle rental is a vehicle that can be used temporarily for a period of time with a fee. Renting a Vehicle 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 Vehicle must first contact the Vehicle rental company for the desired vehicle. This can be done online. At this point, this person has to supply some information such as; dates of rental, and type of Vehicle. After these details are worked out, the individual renting the Vehicle must present a valid Identification Vehicles. Most companies throughout the industry make a profit based on the type of Vehicles that are rented. The rental Vehicles are categorized into economy, compact, compact premium, premium and luxury. And customers are free to choose any Vehicle of their choice based on their purse and availability of such Vehicle at the time of reservation. Vehicle Rental System gives Vehicle rental service for both foreign and local customers. This organization Vehicle Tries out its daily work by providing; their service to the customers using a manual system. The organization uses a manual system for reserving, renting, register and to keep record of all the rental activities and customer information. The detailed existing system functions are listed as follows -

During Vehicle reservation the customers reserve a vehicle by making a phone call to the organization; otherwise he/she is expected to go to the organization to make a reservation.

During renting a Vehicle the customer's personal information, payments status and rent agreements are filled in the Vehicle rent agreement form in order to hold a legal contract between the customer and organization for renting the vehicle.

The organization normal work time schedule is from 1:30am

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6:00pm; therefore the organization gives services for ten and half hours a day.

The organization makes a general report about the rented Vehicles once at the end of the month and generates a report.

## **USE OF THE PROJECT**

### **Vehicle Rentals – One of the most Preferred Mode for Transport**

For most of the travelers, renting a Vehicle is one of the easiest and cost-effective solutions to travel. You can choose your preferred Vehicle and cover the distance you want. Often Vehicle Rental companies offer great deals and discounts which can save money for you. Also by renting a Vehicle, you can enjoy a convenient journey.

These days most people prefer Vehicle rentals as one of their favorite modes of transport. With a number of vehicle options like luxury Vehicles, economy Vehicles, sports vehicles, multi utility vehicles, etc, Vehicle rental companies are making it available for every customer.

## **Feasibility of Project**

Preliminary investigation examine project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economic feasibility for adding new modules and debugging old running system. All Vehicle rental management systems are feasible if they have unlimited resources and infinite time.

There are aspects in the feasibility study portion of the preliminary investigation:

### **• Technical Feasibility**

Earlier no Vehicle rental management system existed to cater to the needs of ‘Secure Infrastructure Implementation System’. The current system developed is technically feasible. It is a web based user interface for audit workflow at NIC-CSD. Thus it provides easy access to the users. The database’s purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in their various capacities or roles. Permission to the users would be granted based on the roles specified. Therefore, it provides the technical guarantee of accuracy, reliability and security. The software and hardware requirements for the development of this project are not many and are already available in-house at NIC or are available as free as open source. The work for the project is done with the current equipment and existing software technology. Necessary bandwidth exists for providing a fast feedback to the users irrespective of the number of users using the system.

### **• Operation Feasibility**

Proposed projects are beneficial only if they can be turned out into an information system. That will meet the organization’s operating requirements. Operational feasibility aspects of the project are to be taken as an important part of the project implementation.

### **• Economic Feasibility**

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economic feasibility, the development cost in creating the Vehicle rental management system project. The system is economically feasible. It does not require any additional hardware or software. Since the interface for this system is developed using the existing resources and technologies available at NIC, There is nominal expenditure and economic feasibility for certain..

# **FUNCTIONAL SPECIFICATION**

## **USER SPECIFICATIONS:-**

Admin can add a Vehicle, manage booking Vehicle and rent and also view feedback and enquiry.

Users can view information of available Vehicles, book a Vehicle, easily get the Vehicle on rent and also give feedback and can enquiry.

## **MODULE SPECIFICATION:-**

**View Available Vehicles:** It is a system designed specially for large, premium and small Vehicle rental businesses. The user can view Available Vehicles and the user can book for that Vehicle.

**Booking Vehicle :** The user can view Available Vehicles and the user can book for that Vehicle.

**Easily Get the Vehicle on rent :** The Customer can easily get the Vehicle whenever they need to on the rent with use of this system.

**Give Feedback :** The customer will give the feedback to the admin.

**Enquiry:** The inquiry can easily be done by the user.

**Add Vehicle :** The Admin can add the Vehicle so that The user can see the available Vehicles and book the Vehicle.

**Manage Rent:** The Admin can manage the rent so that The user can see the rent and book the Vehicle.

**View Feedback:** The admin easily views the feedback and solves the query.

## **Software Specification**

- **Technology Implemented :** Bootstrap, PHP, Github(Github Pages), XAMPP Server, PhpMyadmin
- **Language Used :** HTML, CSS, JAVASCRIPT , PHP, MySql
- **Database :** MySql
- **User Interface Design :** PHP, Bootstrap
- **Web Browser :** Chrome / Firefox / Any compatible browser

## **Hardware Requirements**

- **Processor :** Intel Dual Core or above
- **Operating System :** Windows or any equivalent OS
- **RAM :** 4GB
- **Hardware Devices :** Laptop / SmartPhones / Mobile Phones
- **Hard disk :** Minimum space required 10gb

## **FUTURE SCOPE**

The Vehicle Rental Business in the whole world is growing rapidly. While several players have already entered and established themselves in the market, there is still scope for others. Every company is trying to provide better services and offers to get more reservations and this is bringing improvement and use of new automated technologies in the market. Now rental companies are focusing on customer support, training, sales and marketing to stand out clearly and to communicate better with the customers. This will increase the customer footfalls and sales.

Most of the Vehicle rental businesses are doing good and some of them are working hard on every facet to improve their services. We can expect a bright future for all Vehicle rentals who are implementing smart tricks and technologies to stand out in the market. To provide better services and automate the business, many Vehicle rental companies are using **Vehicle rental management software**. A software minimizes the task for the management and they can concentrate on developing business plans and new strategies for the development of the business.