

## International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology



ISSN 2320-088X

IMPACT FACTOR: 7.056

*IJCSMC, Vol. 11, Issue. 3, March 2022, pg.102 – 107*

# ONLINE CAR RENTAL SYSTEM

**P. Nahnisha<sup>1</sup>; B. Jai Sai Anvitha<sup>2</sup>; R. Prema<sup>3</sup>**

Department of Computer Science & Engineering,

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University, Kanchipuram, Tamilnadu

<sup>1</sup> [paineedinahnisha@gmail.com](mailto:paineedinahnisha@gmail.com); <sup>2</sup> [anvithaprasad1308@gmail.com](mailto:anvithaprasad1308@gmail.com); <sup>3</sup> [rprema@kanchiuniv.ac.in](mailto:rprema@kanchiuniv.ac.in)

DOI: <https://doi.org/10.47760/ijcsmc.2022.v11i03.012>

-----\*\*\*-----

*Abstract- The Car Rental System is being developed for customers so that they can book their vehicles from any part of the world. This application takes information from the customers through filling their details. A customer being registered in the website has the facility to book a vehicle which he requires. The proposed system is completely integrated online systems. It automates manual procedure in an effective and efficient way. This automated system facilitates customers and provides them to fill up the details according to their requirements. It includes the type of vehicle they are trying to hire and location. The purpose of this system is to develop a web site for the people who can book their vehicles along with requirements from any part of the world.*

*Keywords: Car Rental System, XAMPP Server, Backend MYSQL.*

## 1. INTRODUCTION

The main objective of the application car Rental System require a temporary vehicle, for example those who do not own their own car, or owners of damaged or destroyed vehicles who are awaiting repair or insurance compensation or travelers who are out of town. This project is designed so as to be used by Car Rental Company specializing in renting cars to customers. It is an online system through which customers can view available cars, register, view profiles and book cars.

### 1.1 LITERATURE SURVEY

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between companies (services provider) and their customers of which the car rental industry is not left out. This E-Car Rental System is developed to provide the following services:

Enhance Business Processes: To be able to use internet technology to project the rental company to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI)

Online Vehicle Reservation: A tool through which customers can reserve available cars online prior to their expected pick-up date or time.

Customer's registration: A registration portal to hold customer's details, monitor their transactions and use the same to offer better and improve services to them.

## 1.2 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 simplifies vehicle and staff management.

## 1.3 STUDY OF THE SYSTEM

The online car rental system web- application is designed by using CSS for styling and we used PHP which is a server side programming that enables the creation of web based applications. The front end is designed using HTML, CSS and the backend was MySQLdb which is a cross-platform document-oriented database program also Classified as a NoSQL database program.

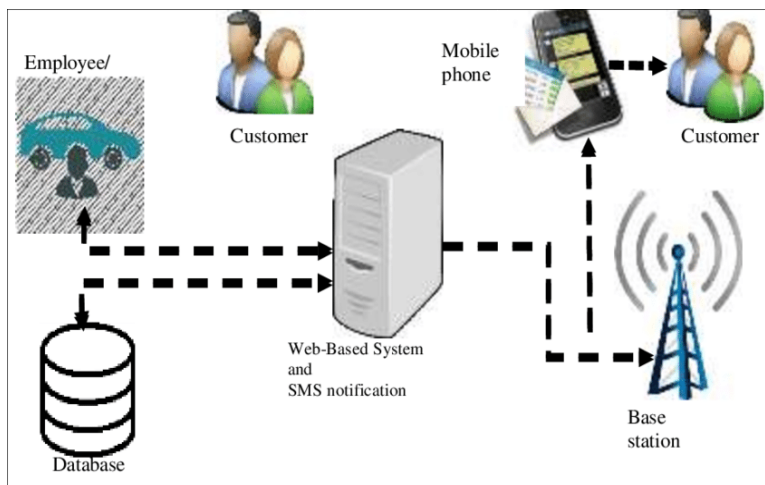
## 1.4 MODULES

- 1) Login module: This module consists of sign in page, create account page for users
- 2) Car listing module: In this car listing module vehicles which are available for rent are arranged in an organized way.so that users easily can find a suitable car.
- 3) Booking module: In this module users need to enter the form and to date and address of their location in order to rent the vehicle.
- 4) Payment module: On our website payment is done through cards.

## 2. SOFTWARE REQUIREMENTS

- XAMPP server
- Language Used
  1. Front End(User Interface) HTML 5 ,JAVASCRIPT, BOOTSTRAP
  2. Server Language PHP 5.5
  3. Back End MYSQL

## 3. SYSTEM ARCHITECTURE



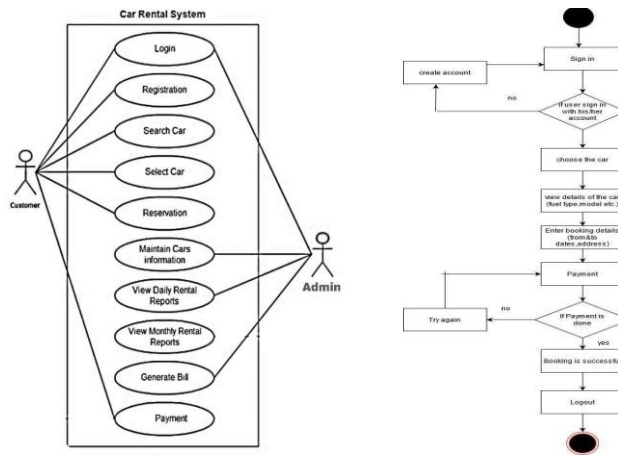
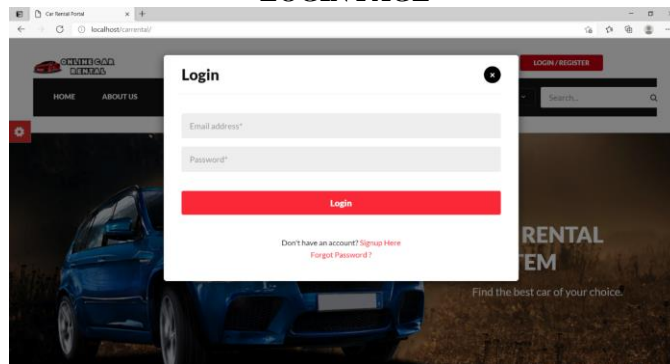


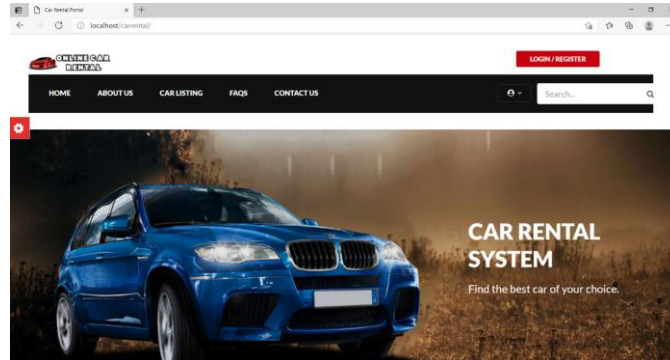
Fig: Activity Diagram

#### 4. OUTPUT

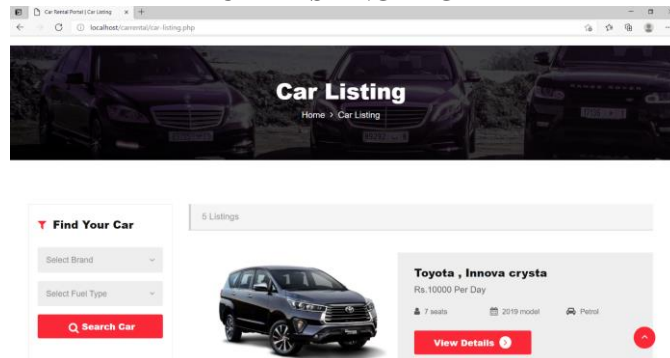
##### LOGIN PAGE



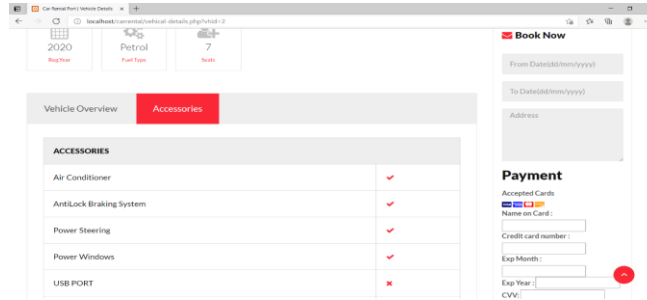
##### HOME PAGE



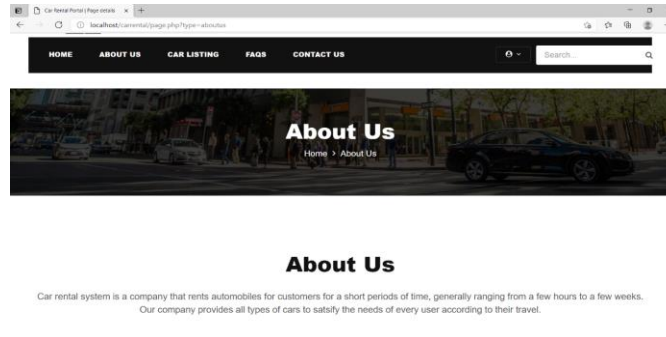
##### CAR LISTING PAGE



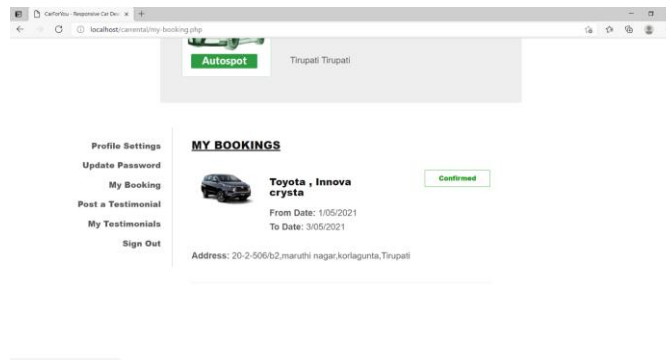
## BOOKING AND PAYMENT PAGE



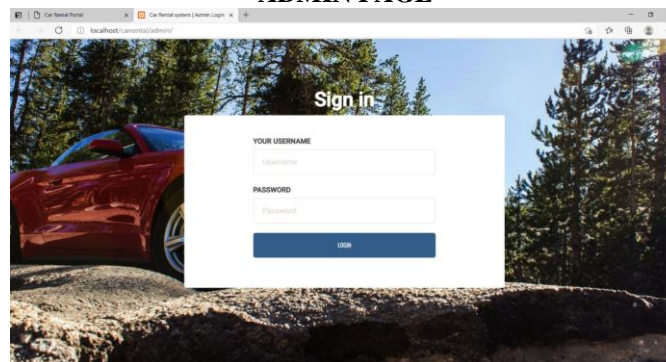
## ABOUT US



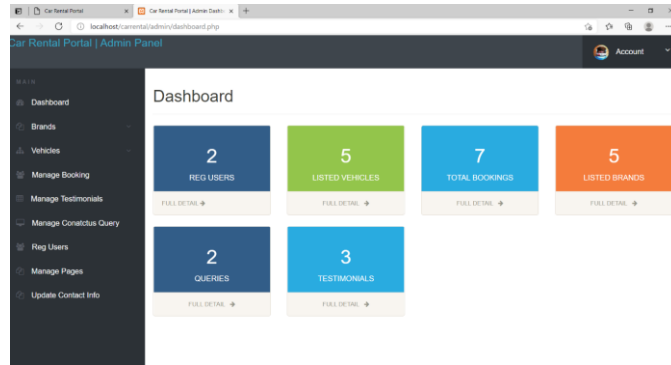
## MY BOOKING PAGE



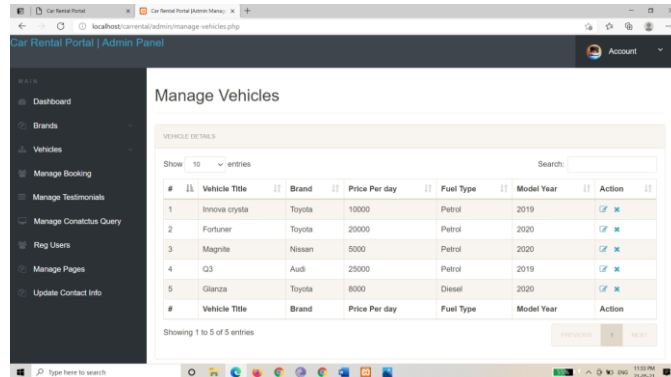
## ADMIN PAGE



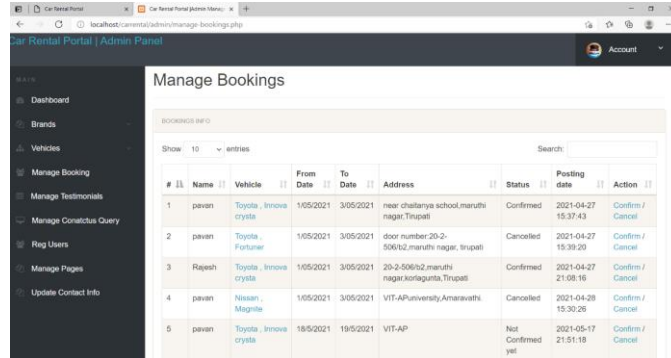
### DASHBOARD OF ADMIN PAGE



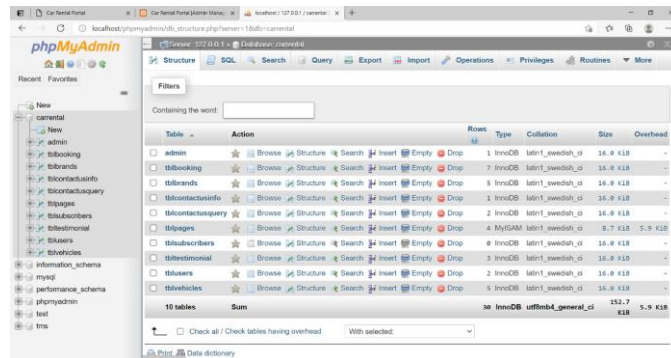
### VEHICLES LISTED PAGE



### MANAGE BOOKINGS PAGE



### Mysql Database (software tool: phpMyAdmin)



## CONCLUSION

In conclusion, the system will be able to serve as a web-based application when it is finally developed, where these small upcoming companies can make use of it to publish their services in a wide range and also help the company to manage their service more effectively. On the other hand, it will enable customers to freely make their desired choice more freely and interactively.

## REFERENCES USED

- [1]. <http://www.carrentingsolutions.com>
- [2]. [www.w3schools.com](http://www.w3schools.com) C
- [3]. “Walter L. Jacobs, 88; Rent-a-Car Pioneer”. LA Times. 1985-02-08. Retrieved 21 January 2012.
- [4]. MOHD, K.B. (2012). ‘Rental Car Online System’ unpublished paper submitted for the requirement of a degree in ComputerScience.

## CHALLENGES

- 1) Taking advantages of the local marketing
- 2) Make online Bookings more user friendly
- 3) Competition with the car sharing industry
- 4) Contend with fleet management issues
- 5) Customer service will be more important than ever