A Project report on

CAR RENTAL MANAGEMENT

A Dissertation submitted to JNTU Hyderabad in partial fulfillment of the academic requirements for the award of the degree.

Bachelor of Technology

in

Computer Science and Engineering

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CERTIFICATE

This is to certify that the Project report "CAR RENTAL MANAGEMENT " being submitted by Sai Supriya CH(19H51A0523), Joshna C(19H51A05C7), Vidushee G (19H51A05F1), in partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering record of bonafide work carried out his/her under my guidance and supervision.

The results embodies in this project report have not been submitted to any other University or Institute for the award of any Degree.

M.N.Sailaja   Dr.S Siva Skandha
Asst.Professor   Professor and HOD
Dept. of CSE   Dept. of CSE

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ABSTRACT

The main application of 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. Here, User has to Login To book a car. The user can search for cars easily and book. For bookings, the user has to provide information such as Booking Dates and Text Message. All car details are provided and it also includes Car's feature and Overview.

   The user can also post their Testimonials and the user can update their Profile as well as passwords anytime they want from the site. Admin can Add/Manage car brands, manage vehicles, bookings, testimonial, pages and many more. It's easy to operate and understand by users. This site makes customers easy for car rental. The design is pretty simple and the user won't find it difficult to understand, use and navigate. Languages used are HTML, PHP, JavaScript, MYSQL.

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CHAPTER 1
INTRODUCTION

Car rental or car hire agencies are private companies that provide short time leasing vehicles for a specified time with a fee to their customers. car rental service increasingly becomes the preferred option for most people, especially among students in campuses and universities. This occurs because not all students can afford having their own vehicle and perhaps the university bus service doesn't always help. Besides, the raising taxi fares and inconsistent bus arrivals in Malaysia continue to discourage people from taking up the public transport. Many organizations used web-based system because most people often used mobile phone that gives convenience to the users who are familiar with web technology. The technology has been implemented into the wide-range different sectors, such as education.

The project is designed to help people utilize transport effectively. In recent times cars have become most convenient modes of transportation. Our Car rental system helps in making this an easier, hassle-free and enjoyable experience to acquire and use a car as per ones needs. A person can book a car specifically for his travel time, co-travellers and the nature of travel. The rental system traverses from designing a database to understanding business concept and above all to make this an easy to adapt system for various travelling needs.

CHAPTER 2

BACKGROUND WORK

2.1 Case Study

Africa One Travels is a rental car management service Company that offers services such as car hiring to different Customers according to their desires. It was founded by two members, namely, Mr.Kavuma George and Mark Wilts, both Ugandans in 1999. Africa One Travels was founded on self help basis and got first registered in 2000 under registration number P.677890, but it was fully registered in 2004 with registration number T.667908 under the National Company Act. Because of the advancement of technology, the Company has found it viable to introduce a computerized system that should lead to high speed, accuracy and efficiency in daily activities. In addition, a centralized database has become a better choice. From the standpoint of practicality in today' s business setting, Africa One Travels is hying to come up with an online database management system that can offer more speed and flexibility. Centralizing the online database by integrating it according to a business or end-user defined subject area and having the ownership moved to the owners of the subject area can solve the problem of database failure and business stoppage. Online car rental management information system is vital and Africa One Travels does not possess one, which lead to complexity, uncertainty and required judgments, insight and much inter-personal skill to carry out their tasks. Information flows are essential and so there should be very much reliance on computer dominated systems. In other words, Africa One Travels needed control system with feedback, which were essential in carrying out the monitoring role. There is need for management information systems in order to obtain information about the environment by scanning and information gathering process (Lucey, 1997). This is done to identify potential threats and opportunities. Having no management information system left the organization unprepared for risk and this exposed it to greater disaster.

An Information System like an online car rental management system can therefore be looked at as a collection of machinery, people and methods used to accomplish functions. Managers at this level are concerned with the

implementation and control of day-to-day activities of the organization and hence the absence of management information systems which made the organization vulnerable to risk. This is so because effective and efficient information processing is very essential since controls are numerous, monitoring is constant, data volumes are quite

high and immediate response is needed. The manual file system is extremely slow and time consuming; therefore Africa One Travels Company needs to replace the manual file system with a computerized online car rental management information system to match the day to day

increasing volume of transactions. Due to the increased number of customers from 2001 by 2000 to 4000 by 2012, the organization needs to provide accurate, fast and reliable information. And this can only be attained by computerizing the organization's operations; therefore the organization has to shift from the manual system to a computerized online car rental management information system that could help improve storing, retrieving, updating, advertising and deleting unwanted necessary records (Dominick, 2002).

2.2 OBJECTIVES OF THE PROJECT

- 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.

CHAPTER 3

PROPOSED SYSTEM

To develop a system of CAR RENTAL MANAGEMENT by completely focusing on customer. To enhance the growth, and to be efficient. 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.

3.1 Existing system:

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.

3.2 Scope of the System:

The scope of this system is as follows:

- The car rental system to keep detail records of both the cars and the customers, the duration they rent car as well as the type of car they rent.
- The system will be mainly design for small a company that renders it car rental services to customers.

- The system will have the ability to generate and print invoice for each successful transaction.

3.3 Level of Access:

The system will have two levels of access:

- The administrator
- Customer

3.4 Functional Requirements

- Customer registration – New users should be able to register online.
- Car reservation online – Customers should be able to utilise the system to book and reserve automobiles online.
- Automatic database update once a reservation is made or a new customer is registered – The system should be able to update the database without any further effort from the administrator whenever a new reservation or registration is made.

3.5 System Requirements

Hardware Requirements:
Processor : Intel Pentium Dual Core
RAM : 512 MB
Hard Disk : 160 GB Space
SOFTWARE REQUIREMENTS:
OPERATING SYSTEM : WINDOWS 7/8/10/11
Environment   :   XAMPP
Language   :   PHP, CSS, JavaScript , HTML
Back end   :   MySQL

CHAPTER 4
DESIGNING

4.1 Use Case Diagram

Actor and use case description shows the detail description of interaction between the actors and their use cases. The description enables to have a proper understanding of how actor interacts with the system through their use cases.
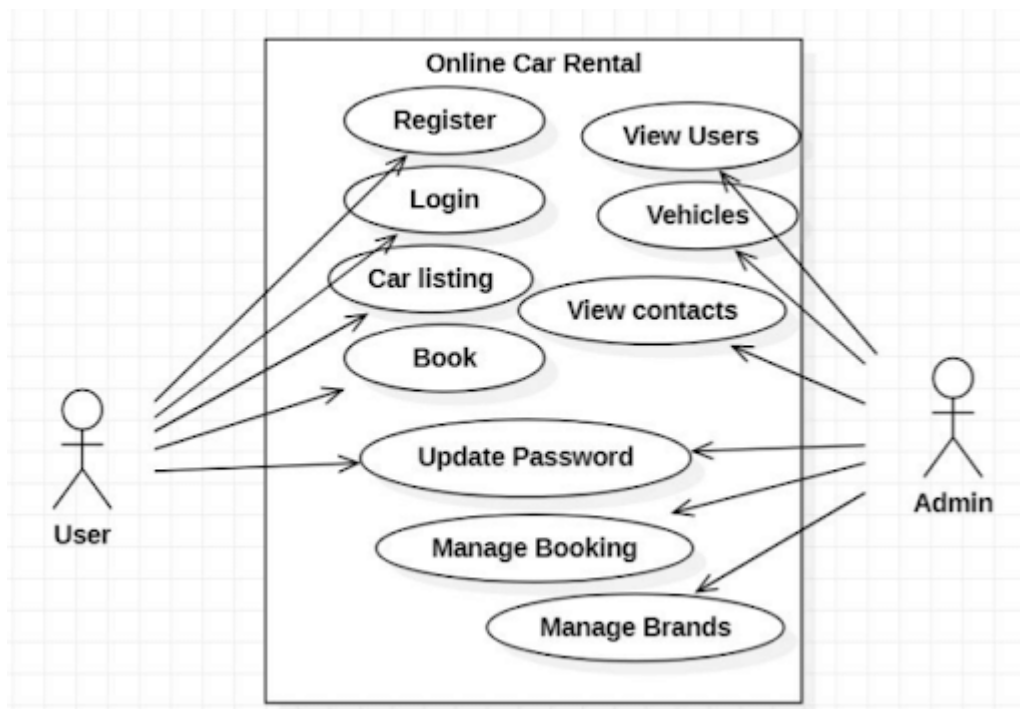
Fig.1

4.2 ER Diagram
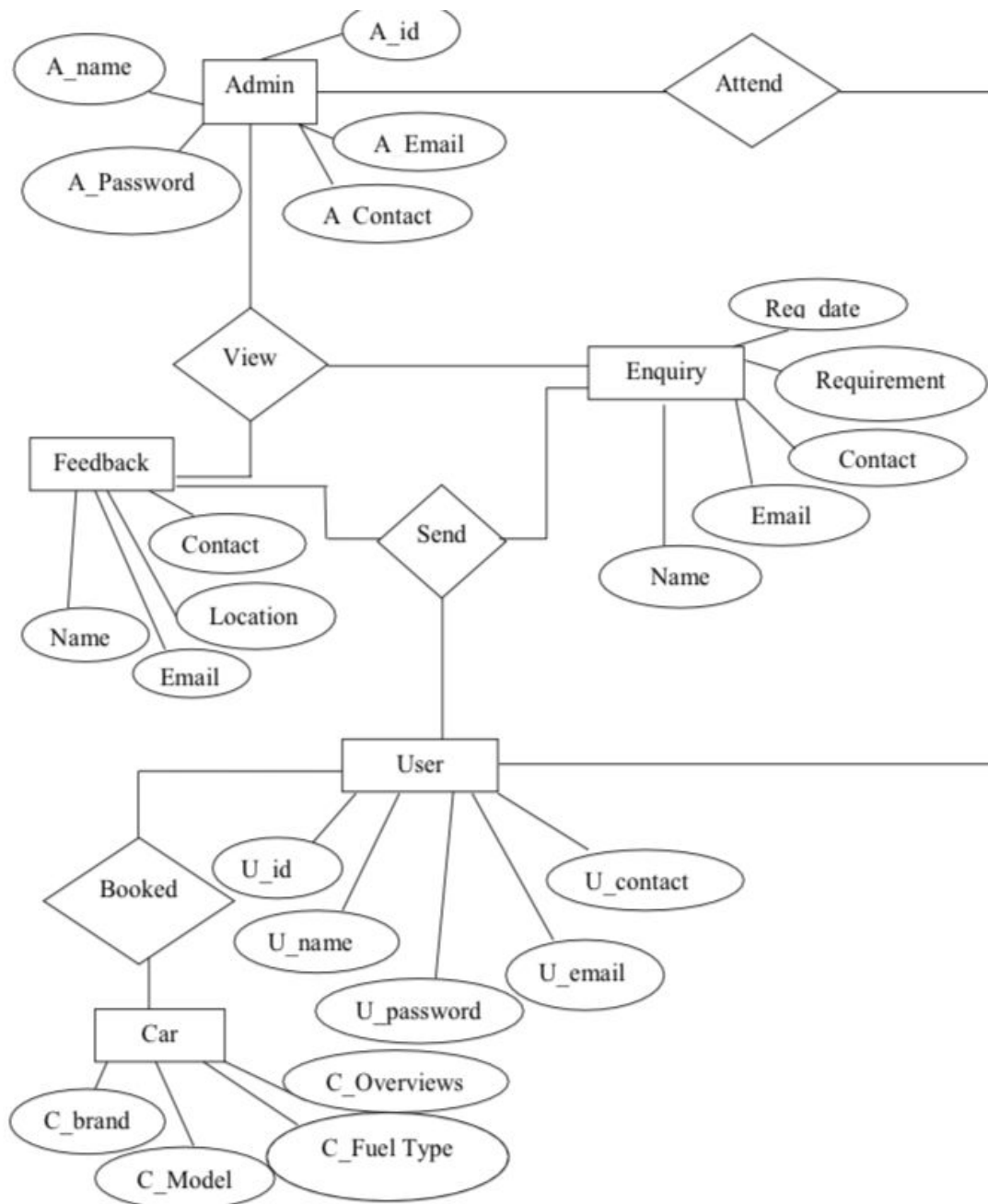
Fig.2

CHAPTER 5
RESULTS AND DISCUSSION

5.1 <u>RESULTS</u>

- After selecting the desired car, the customer can book a rental car by providing few details like – booking dates, location, Aadhar number (for confirming that the user is above 21 years) and also provide driving license.
- Upon providing these details a pop-up message saying – Booking Successful is displayed.
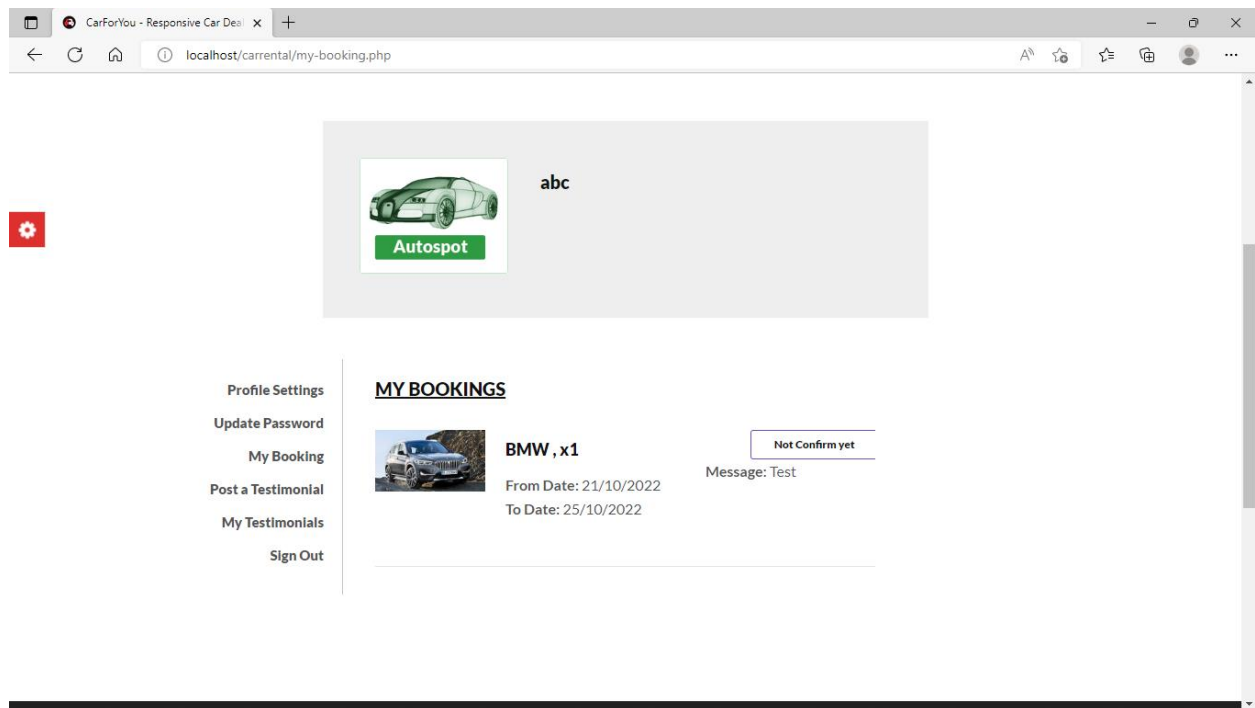- With this rental car is being booked successfully.
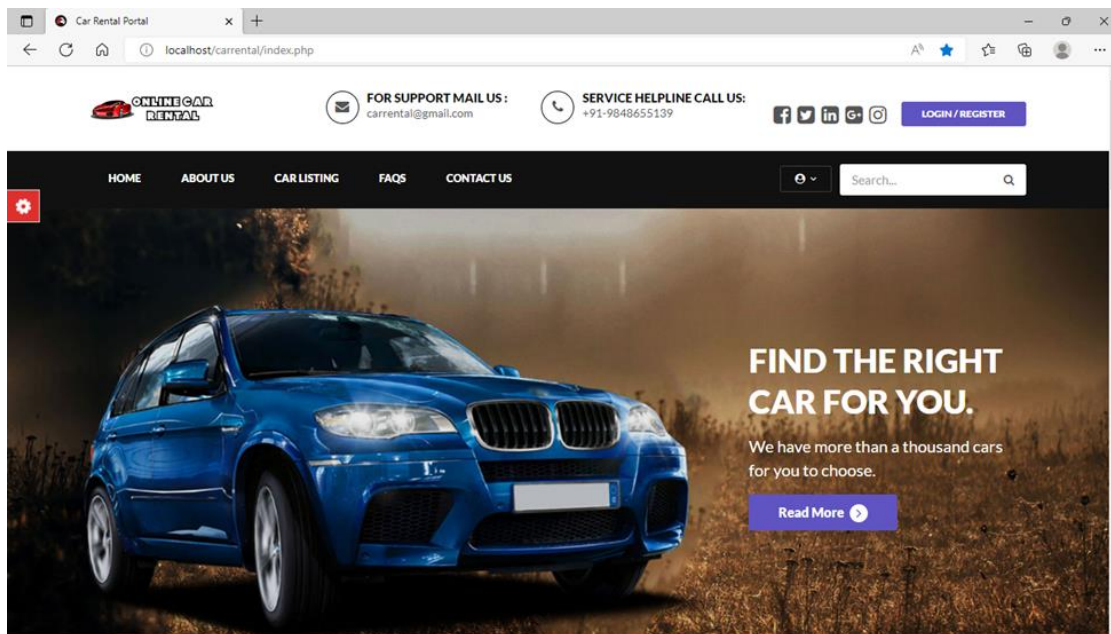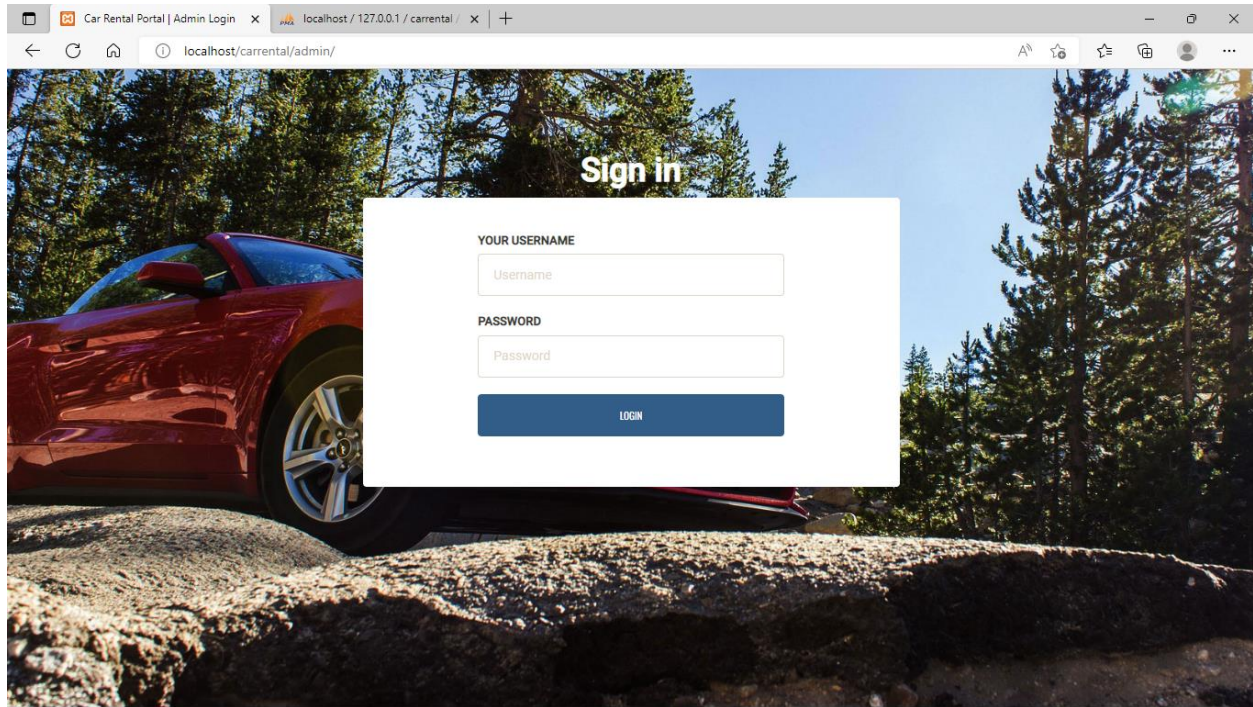

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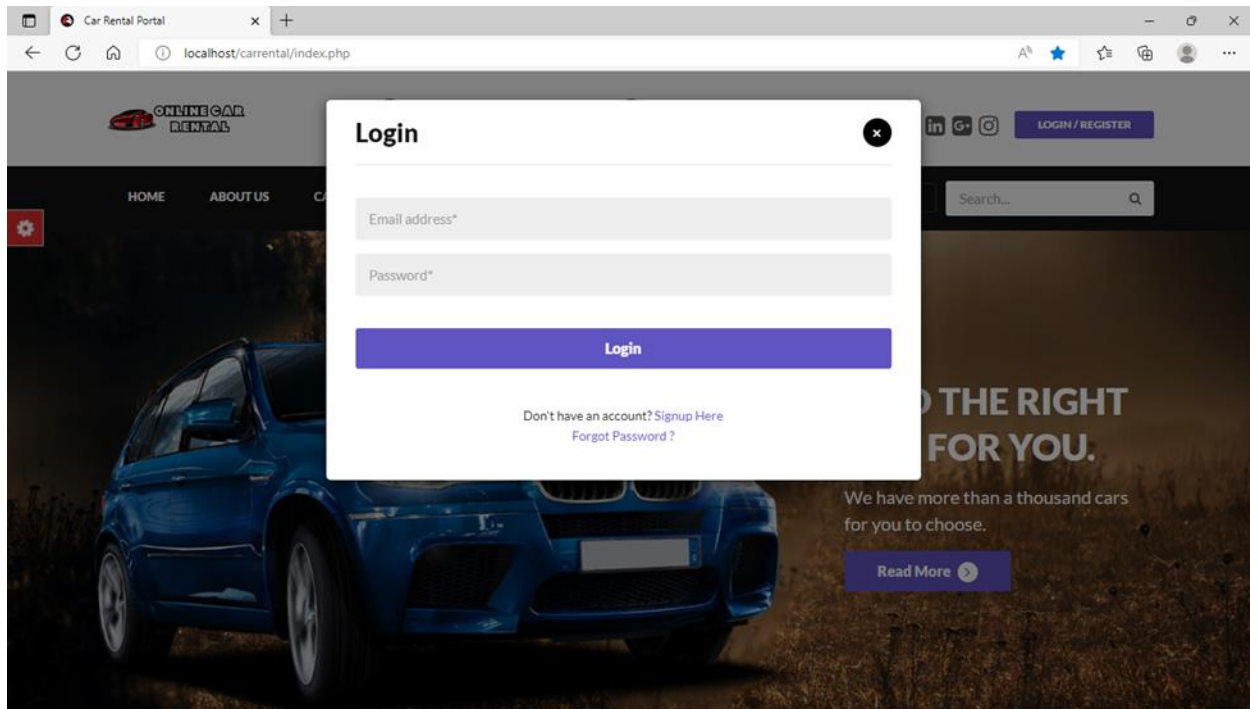
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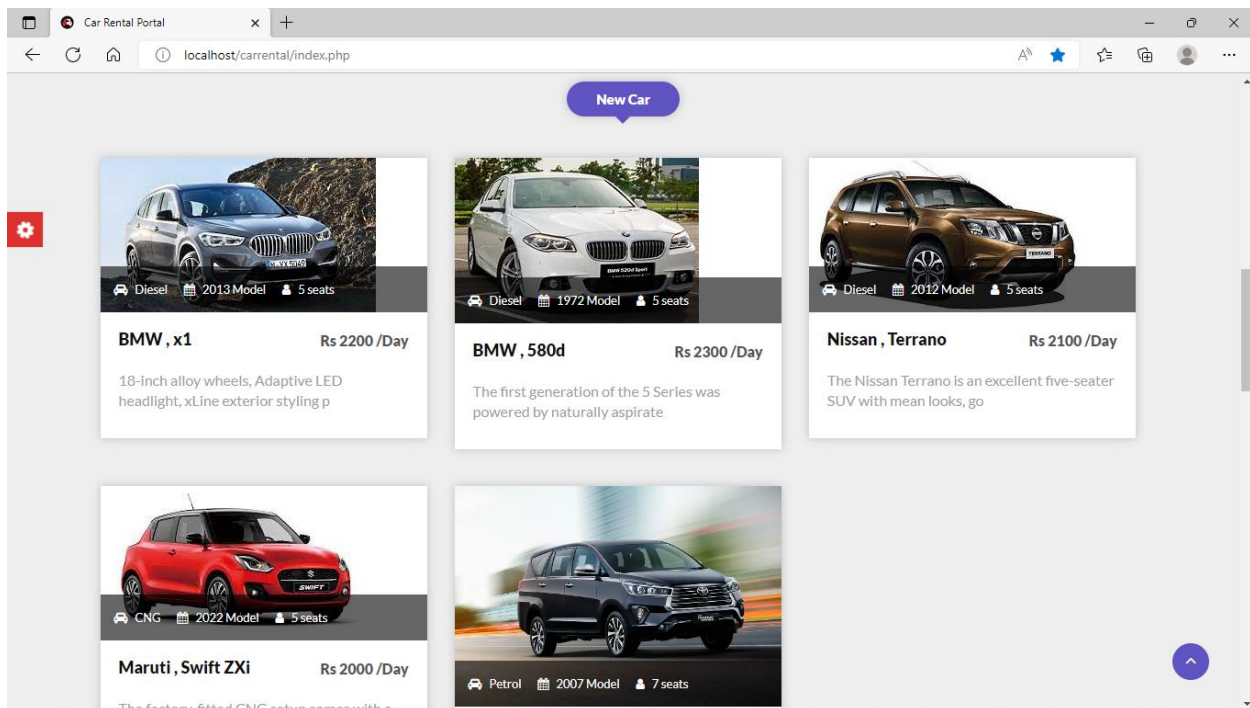
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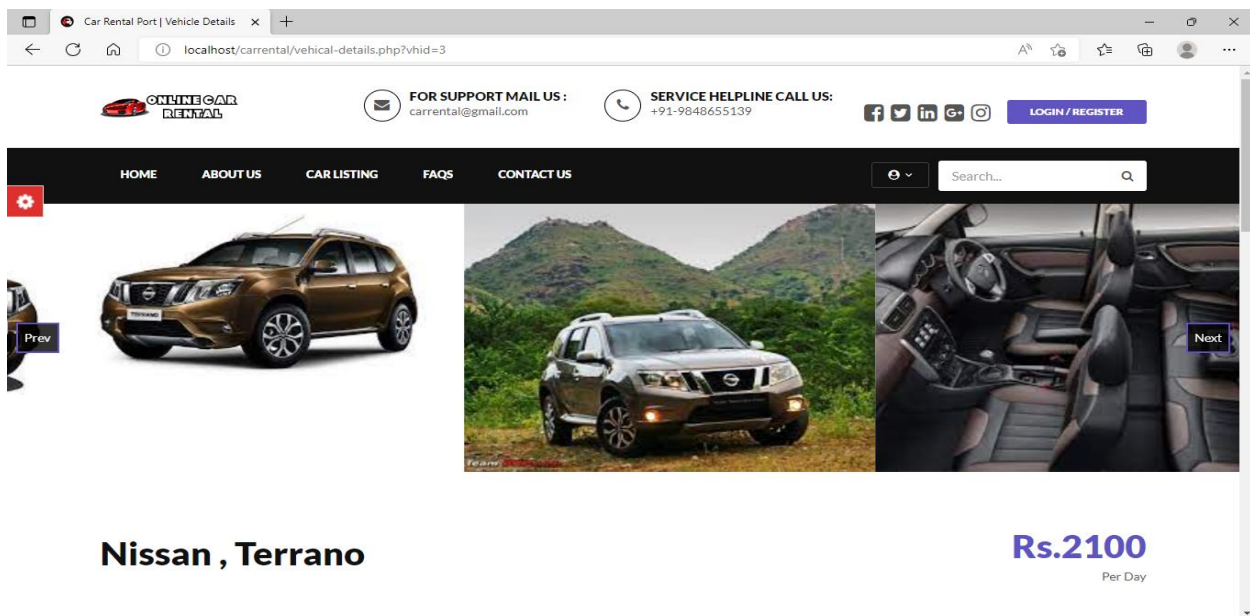
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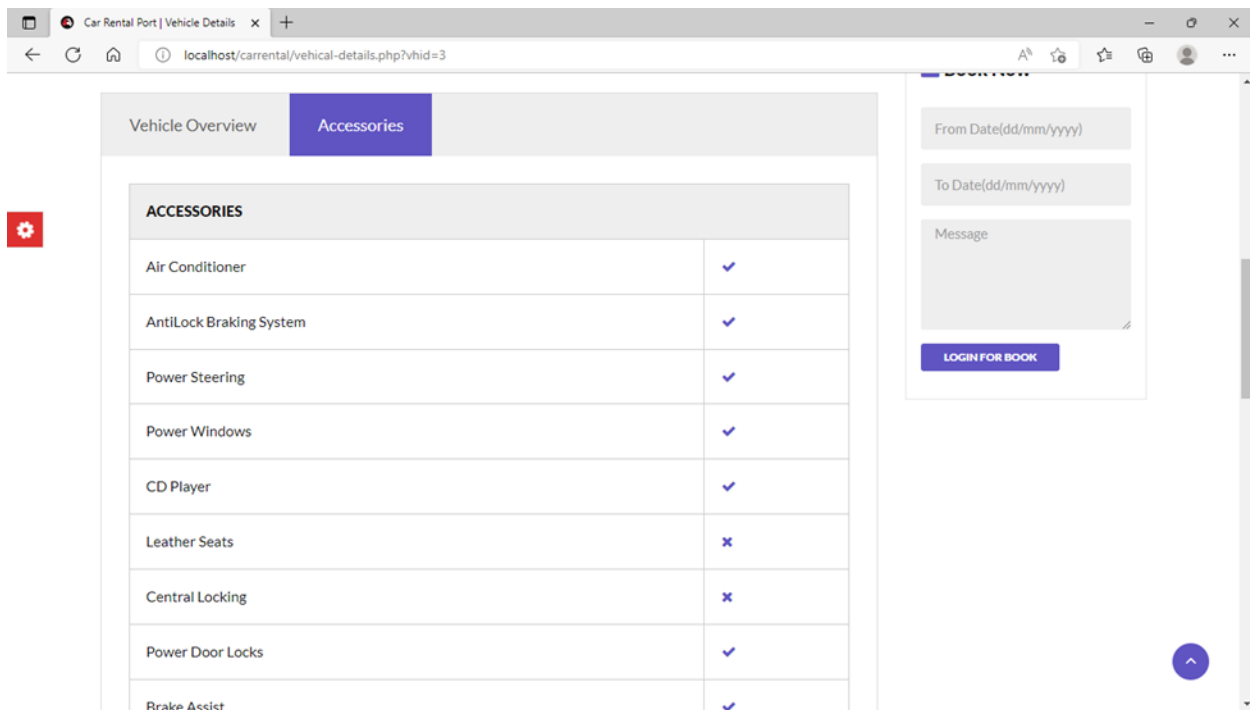
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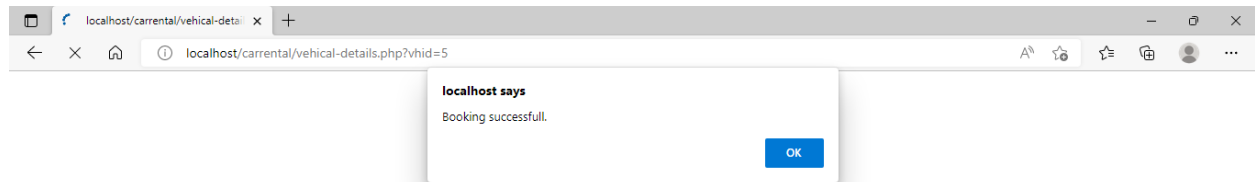
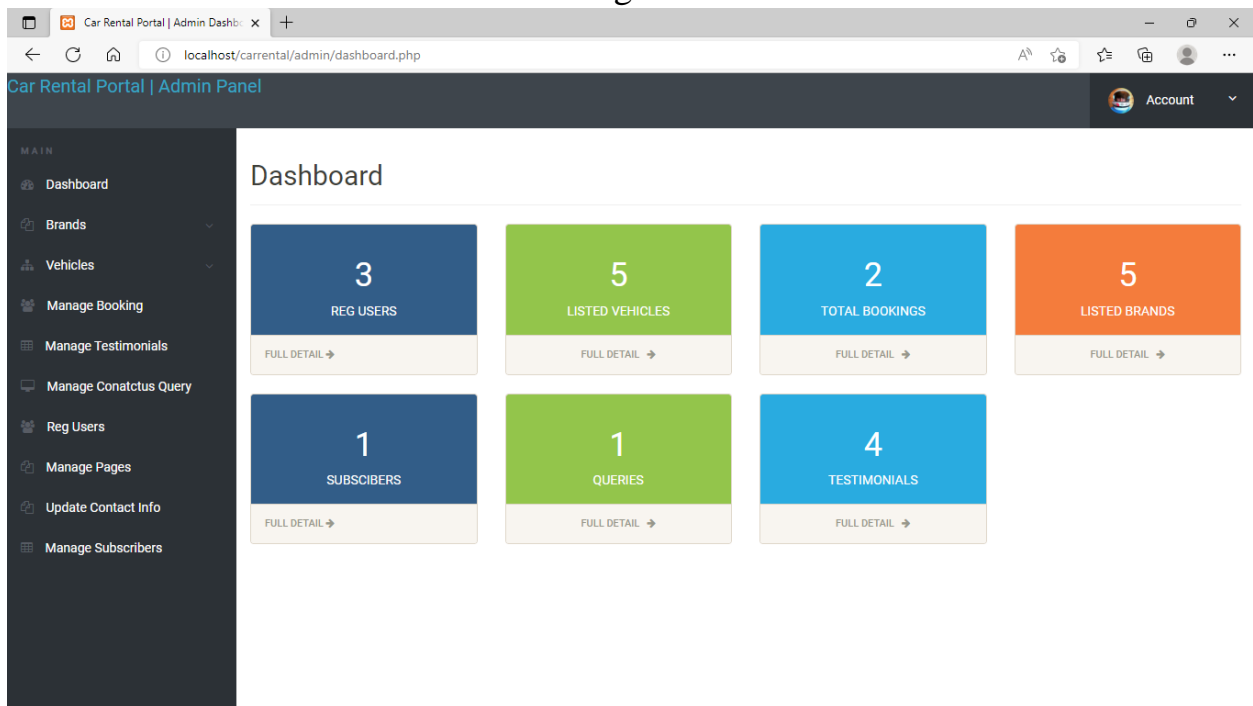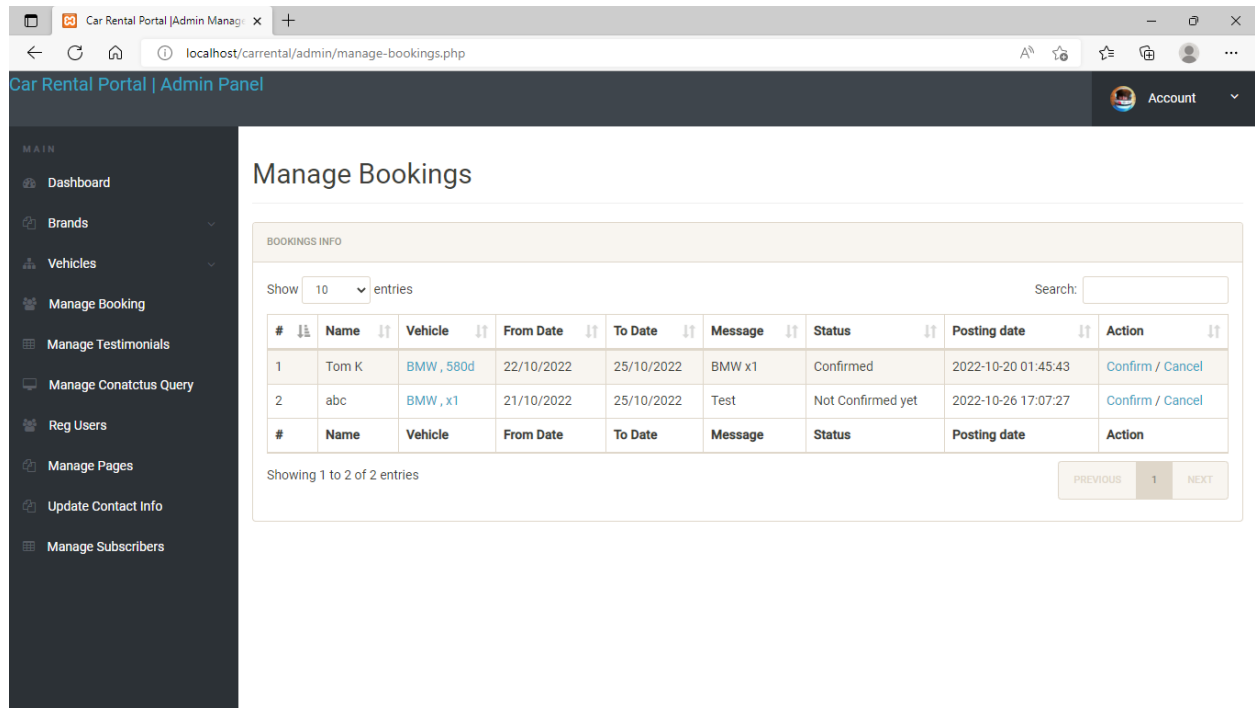Fig.8

Fig.9
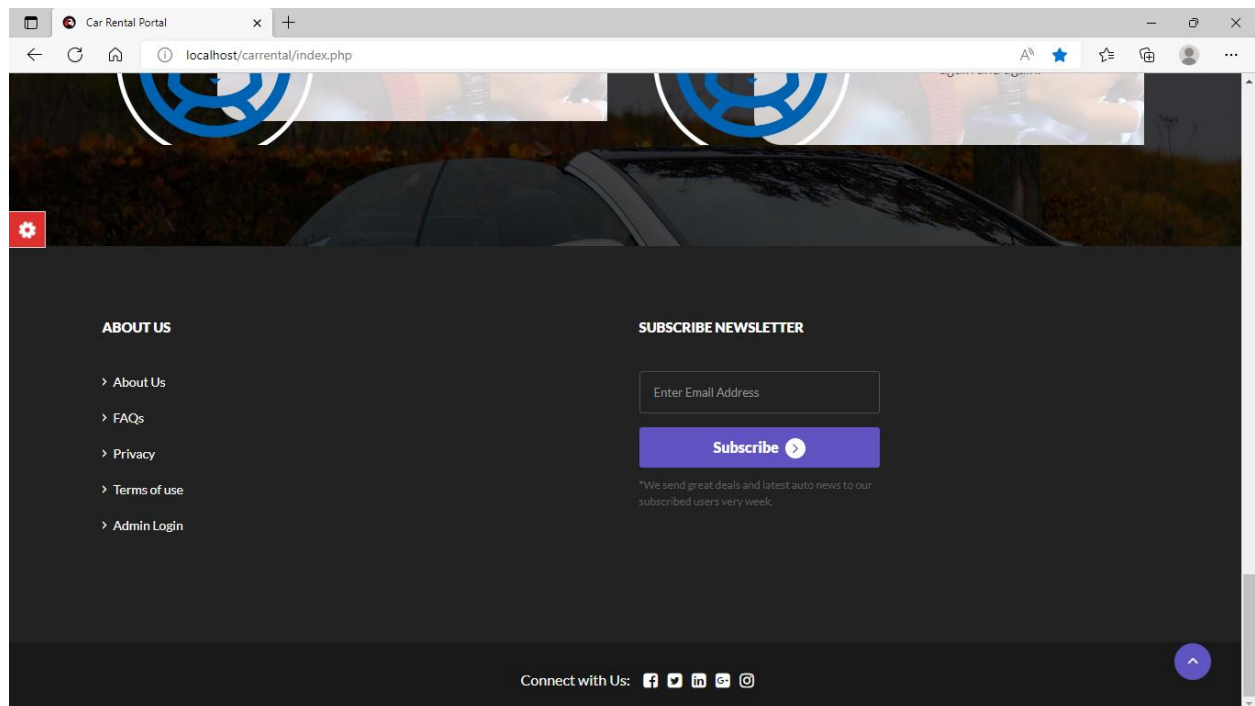
Fig.10

Fig.11

Fig.12

Fig.13

CHAPTER 6
CONCLUSION AND FUTURE SCOPE

6.1 *Conclusion*

- With this project, Customers may now book rent automobiles online, and have the car delivered to their home if they are a registered member and they can travel to their destination easily.
- This project will help people to minimize paper work, faster process – help user deliver the desired car which saves time, money and labour. The car rental management system will provide a faster response to complete the process.
- This car rental management solution is fully functional and flexible. This project helps in back-office administration by streamlining and standardizing the procedure.

6.2 Future Scope

- We are working to increase automation in the system to increase user experience greatly.

- In future we can add different languages so that other nationality users can use this website.

CHAPTER 7
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