VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum-590014, Karnataka.

A Mini Project Report On

"CAR RENTAL PORTAL"

Submitted in the partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF
ENGINEERING IN
INFORMATION SCIENCE AND ENGINEERING

Submitted by

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mini project work entitled **"CAR RENTAL PORTAL"** presented by **PRABHAT KUMAR YADAV (1EW20IS053) and PRAVEEN R (1EW20IS056),** bonafide students of **EAST WEST INSTITUTE OF TECHNOLOGY**, Bengaluru in partial fulfillment for the award of **Bachelor of Engineering** in **Information Science and Engineering** of **Visvesvaraya Technological University**, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

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1. _____	_____
2. _____	_____

ABSTRACT

In the present world people always try to reduce the workload by using the technologies. travelling is one of the activities done by people to reduce their stress. In our project we reduced the task of renting cars by taking the advantage of the present technology.

In conventional manner if someone have to rent a car they must go to the renting company and select the vehicle and do the paper works for completing the procedure. Doing the conventional procedure is a tedious task, to avoid this we have simplified the task and made it into online. In online method people can select the vehicle through online and by giving less details they can perform the booking. The user must create an account in the website by giving his personal details and then he will directly get the details of the vehicles available and they can book the vehicle according to their timing.

By having online method the workload will be reduced to a greater percentage .by comparing with conventional manner the online method is much more easier

ACKNOWLEDGEMENT

Any achievement, be it scholastic or otherwise does not depend solely on the individual efforts but on the guidance, encouragement and cooperation of intellectuals, elders and friends. A number of personalities, in their own capacities have helped us in carrying out this project work. We would like to take this opportunity to thank them all.

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CHAPTER 1

INTRODUCTION

1.1 Aim

The project titled Online Car Rental System aims to reduce the difficulty of storing data in a rental service office and avoiding the manual book working method

1.2 Introduction

At present many of the offices keep their data in a log or register book. This makes a lack of security and also much difficult to maintain. There are so many incidents in offices where the data is lost due to many reasons. Hence it is necessary to have an alternative way to keep the office data in a more secure way. Storing the data to a database is the best method to avoid all these problems. In this view this application is designed to store data and daily logs of a car rental company. By this it is to ensure complete security and mobility to the data where the employees and users can check and verify the data very easily from anywhere with a minimal hardware and less maintenance expenditure to the company The page where we can create a new account of the customer in account.

1.3 Module Description

1.3.1 Admin module

Registration:

o User Registration
o Vehicles Registration

Booking Operation:

o Booking Confirmation

o Booking Cancellation

1.3.2 User Module

Booking Detail:

o Online booking
o Manual booking Search
o Vehicles Catalogs
o Booking
o Search Car

1.4 System Requirements

1.4.1 Hardware Requirements

Processor : Intel Core i3 or Higher/AMD Processors
RAM : 4GB or Higher(Recommended)
Hard Disk : 50GB or Higher(Recommended)

1.4.2 Software Requirements

Operating System : Windows 7 or Higher
Coding Language : php
Database : MySQL
Software Using : Xampp, Php my admin

CHAPTER - 2

LITERATURE SURVEY

2.1 Tools and Technology used

❖ Xampp

Xampp is a free and open-source,cross-platform, web server solutions start package developed by Apache friends,consisting mainly of Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

❖ Notepad ++

Notepad++ is a text and source code editor for use with Microsoft Windows. It supports tabbed editing, which allows working with multiple open files in a single window. The project's name comes from the C increment operator.

❖ PhpMyadmin

phpMyAdmin is a free and open source administration tool for MySQL and MariaDB. As a portable web application written primarily in PHP, it has become one of the most popular MySQL administration tools, especially for web hosting services

CHAPTER - 3

SYSTEM REQUIREMENT SPECIFICATION

3.1. Introduction

3.1.1 Purpose

This project is designed to be used by a 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 rent a car. The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between car rental companies (services providers).

3.1.2 Document Conventions

This document uses the following conventions

Table 3.1: Document Conventions

DB	Database
DDB	Distributed Database
ER	Entity Relationship

3.1.3 Intended Audience

This project is a prototype for the Online Car Rental system and it is restricted within the college premises. This has been implemented under the guidance of college faculty. This project is useful for the Online Car Rental team and as well as to the passengers.

3.1.4 Project Scope

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project

objectives. The area covers: Car rental industry: This includes study on how the car rental business is being done, process involved and opportunity that exist for improvement. PHP Technology used for the development of the application. General customers as well as the company's staff will be able to use the system effectively. Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minima

3.2 Existing System

In the present system, organization do maintain a person for the allocating and proper functioning of

transportation who looks after the assignment and movement of cabs. Authorized person maintains the

transportation details in papers, which is a tedious task if any updates or changes need to be done.

- ★ Details are stored in papers.
- ★ Maintenance is a huge problem.
- ★ Updation is a tedious task.
- ★ Performance is not achieved up to the requirements.

3.3 Proposed System

In the previous system, details were stored manually in papers and sharing the details between employees was a financial drawback. But a new system was proposed to overcome the above drawbacks. Functionalities and advantages of the proposed system are:

- ★ Data is centralized which has overcome the sharing problem.
- ★ As data is maintained electronically, it's easy for a person to update the details.
- ★ Maintenance is easy and performance is good.
- ★ The system has automated the booking and transportation process.

3.4 Overall Description

The Car Rental System is being developed for customers so that they can book their vehicles from any part of the city. This application takes information from the customers through filling their details like, email, mobile number and password. A customer being registered in the website has the facility to book a vehicle which he requires. The proposed system is a completely integrated online system. 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 a display of different types of vehicle they are trying to hire and location.The purpose of this system is

to develop a website for the people who can rent vehicles.

3.4.1 Product Features

- ★ 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.
- ★ The content management system (CMS) for managing the content of the cars
- ★ The data security
- ★ system Reporting of the cars, booking etc

3.4.2 User Class and Characteristics

- ★ Users of the system should be able to retrieve car information like model, type of fuel, price per day, seating capacity and rent a car by specifying the destination.
- ★ The system will support two types of user privileges, Customer and Admin. Customers will have access to customer functions, and the admin will have access to both customer and car management functions.
- ★ The customer should be able to do the following functions:
  - ➔ Flexible Date/time
  - ➔ Confirmation Administrative function includes
  - ➔ Add/Delete a car
  - ➔ Update fare for car.

3.4.3 Operating Environment

- ❖ Client/server system
- ❖ Operating system: Windows.
- ❖ Database: MySQL
- ❖ Platform: PHP

3.4.4 Design and Implementation Constraints

- SQL commands for above queries/applications
- Customers need to have a mail id for accessing the application
- The response for application will be generated through global queries.

3.5 System Features

3.5.1 Description and Priority

The Online Car Rental system maintains information about Cars, Model, personal preferences, prices, and bookings.

3.5.2 Stimulus/Response Sequences

- Search for Cars
- Displays a detailed list of available cars and book a car.
- Cancel an existing Booking.

3.6 External Interface Requirements

3.6.1 User Interfaces

- Front-end software:PHP
- Back-end software:MySQL

3.6.2 Hardware Interfaces

- Windows

3.6.3 Communication Interfaces

This application can be implemented in windows platforms with the windows version from windows XP to windows 10.

3.7 Functional Requirements

- The System will contain a Customer Service module that will allow Store and to provide information to customers
- The System will contain a Customer Portal Website that will provide information to the public and customers about the company and operations of the company.
- The System will allow for new vehicles to be added to the inventory of the company.

- The system will allow the customer to input the desired date, options to determine vehicle availability. If Vehicle is available, then the system will move onto the next step. If a vehicle is not available then the system will prompt the customer to pick another vehicle.
- The customer account will require name, email and phone number.

3.8 Non Functional Requirements

3.8.1 Performance Requirements

This application should provide the expected output with a shorter response time. For invalid Data input appropriate validity messages are displayed in the application should be self-explanatory.

3.8.2 Safety Requirements

If there is extensive damage to a wide portion of the database due to catastrophic failure, such as a disk crash, the recovery method restores a past copy of the database that was backed up to archival storage (typically tape) and reconstructs a more current state by reapplying or redoing the operations of committed transactions from the backed up log, up to the time of failure.

3.8.3 Security Requirements

Security systems need database storage just like many other applications. However, the special requirements of the security market mean that vendors must choose their database partner carefully.

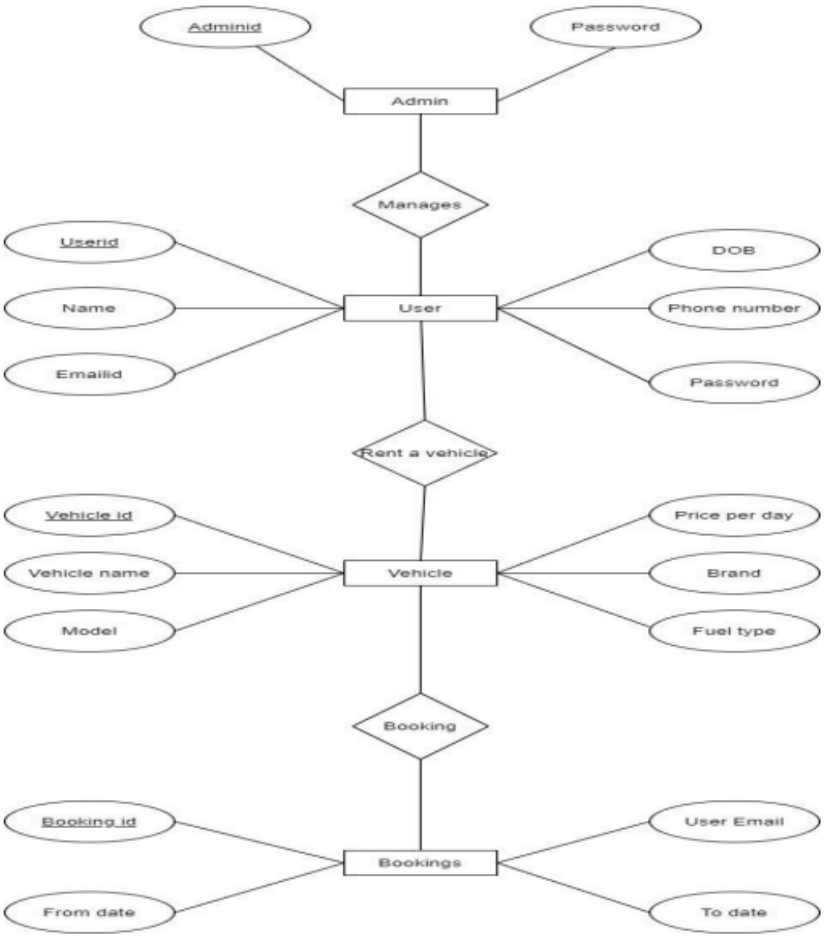
3.8.4 Software Quality Attributes

- Availability: The cars should be available on the specified date and specified time as many customers are making immediate booking.
- Correctness: The cars should function correctly and should reach the correct destination.
- Maintainability: The administrators and car in chargers should maintain correct car availability.
- Usability: The car models should satisfy a maximum number of customers' needs

A) E-R Diagram

The E-R Diagram constitutes a technique for representing the logical structure of a database in a pictorial manner. This analysis is then used to organize data as a relation, normalizing relation and finally obtaining a relation database.

- **Entities:** Which specify distinct real-world items in an application.
- **Properties/Attributes:** Which specify properties of an entity and relationships.
- **Relationships:** Which connect entities and represent meaningful dependencies between them.



B) Normalization:

The basic objective of normalization is to reduce redundancy which means that information is to be stored only once. Storing information several times leads to wastage of storage space and increase in the total size of the data stored.

Normalization is the process of breaking down a table into smaller tables. So that each table deals with a single theme. There are three different kinds of modifications of anomalies and formulated the first, second and third normal forms (3NF) is considered sufficient for most practical purposes. It should be considered only after a thorough analysis and complete understanding of its implications.

First Normal Form(1NF)

- A relation will be 1NF if it contains an atomic value.
- It states that an attribute of a table cannot hold multiple values. It must hold only a single-valued Attribute
- First normal form disallows the multi-valued attribute, composite attribute and their combinatiions

ID	Full Name	EmailId	Password	Contact Number
1	Abin Thomas	abin@gmail.com	abin	123344444
2	Vivek mohan	Vivek@gmail.com	vivek	701215872
3	George biju	George@gmail.com	george	987654321
4	Vishal shaju	vishal@gmail.com	vishal	123456789

Second normal Form (2nf)

ID	User Name	Password	Updation date
1	admin	21232f297a57a5a743894a	2020-03-31 13:25:07

Chapter 4

System Design

4.1 Introduction

4.1.1 Purpose

The purpose of designing the project is to know the overall structure and appearance of the application and to apply any changes if needed.

4.1.2 Scope

The project is meant to be easy understandable and having a user friendly appearance.

4.1.3 Definitions and Acronyms

These are the acronyms used in this document

Table 4.1: Document Conventions

DB	Data Base
DFD	Data Flow Diagram
ER	Entity Relationship
MVC	Model view Controller

4.1.4 System Overview

An online car rental system allows a person to book a vehicle for days which he/she need. The basic functions of online car rental system are to keep tracks of the vehicles, customers and booking The reports are accessed by the admins, where they can check the current status of the vehicle. It is a user friendly and easily understandable appearance.it is supported on both computer and web platforms.

4.2 System Design

4.2.1 Data Flow Diagram

A. Context Diagram

A context diagram, sometimes called a level 0 data-flow diagram, is drawn in order to define and clarify the boundaries of the software system.

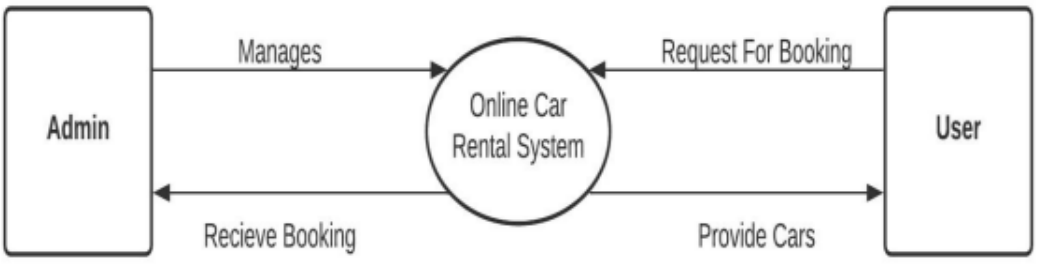


Figure 4.1: Context diagram of Online Car Rental System

A data-flow diagram is a way of representing a flow of data through a process or a system. The DFD also provides information about the outputs and inputs of each entity and the process itself.

B. Level 1 DFD

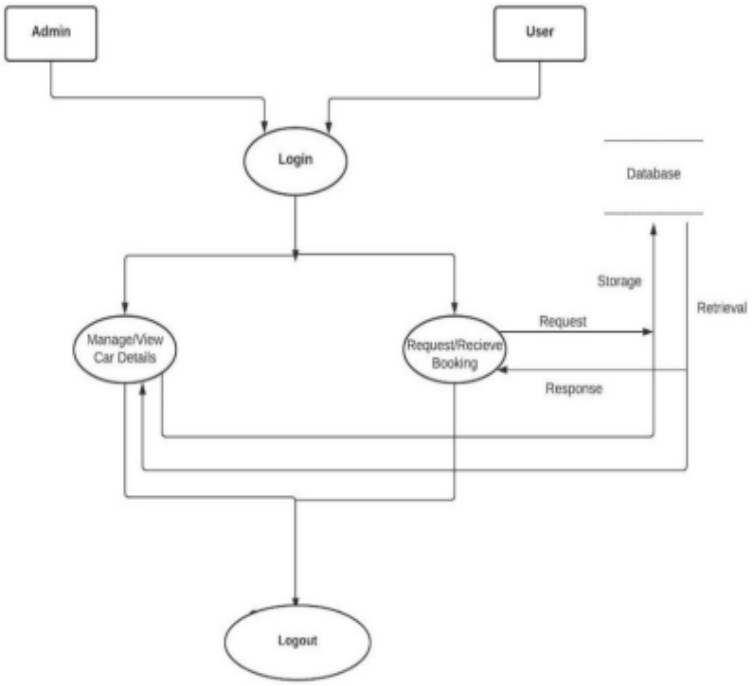


Figure 4.2: Level 1 Data flow diagram for Online car rental system

C. Level 2 DFD for Admin

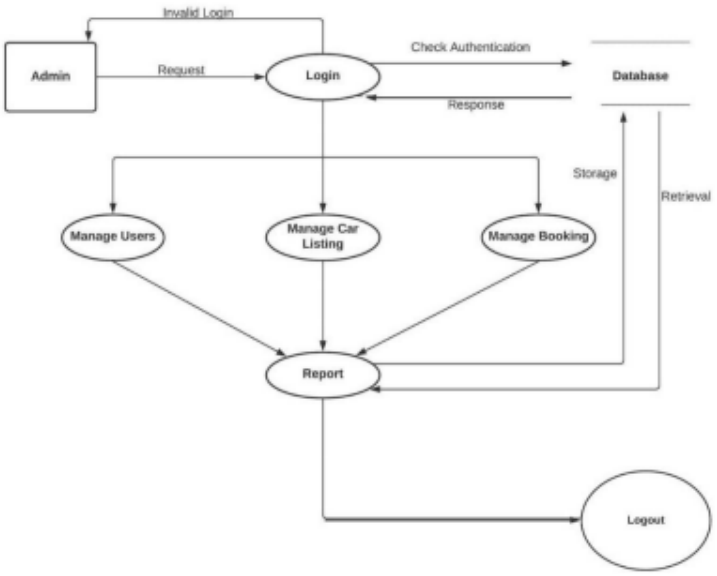


Figure 4.3: Data flow diagram of Admin

D.Level 2 DFD for User

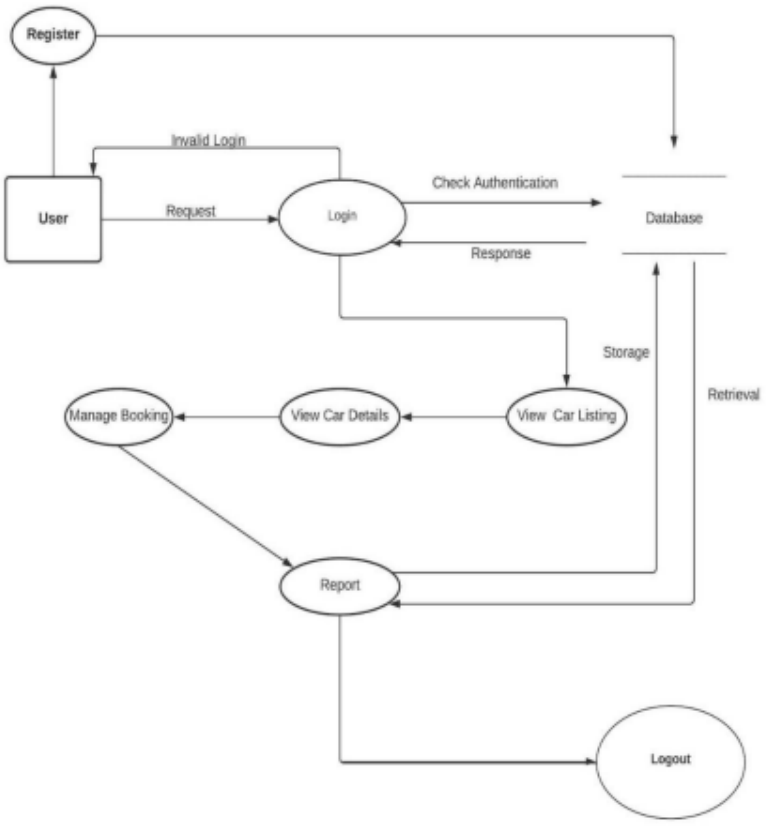


Figure 4.4: Data flow diagram of User

4.2.2 Use Case Diagram

This Use Case Diagram is a graphic depiction of the interactions among the elements of Car Renta System. It represents the methodology used in system analysis to identify, clarify, anc organize system requirements of Car Rental System.

A.Admin

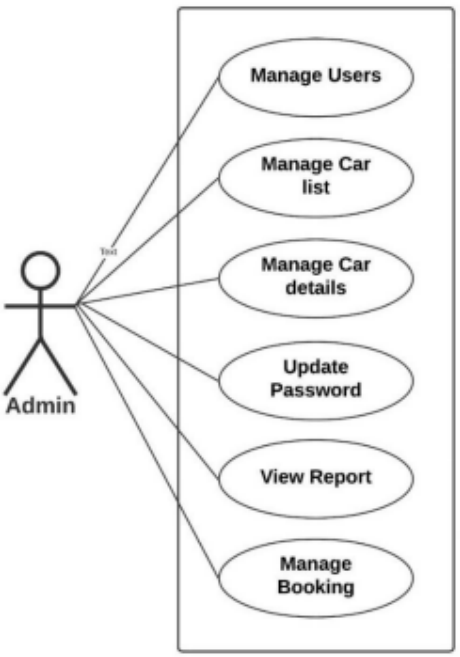


Figure 4.5: Use case diagram of Admin

B. User

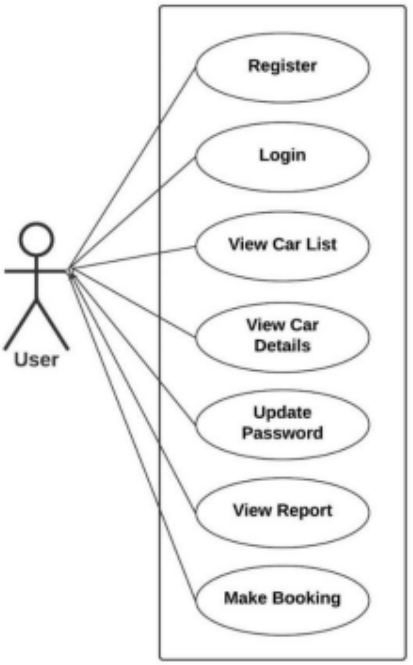


Figure 4.6: Use case diagram for User

4.3 Detailed Design

4.3.1. Sequence Diagram

This is the UML sequence diagram of Car Rental System which shows the interaction between the objects of Drivers, Cars, Passenger, Car Routes, Booking. The instance of class objects involved in this UML Sequence Diagram of Car Rental System are as follows: Drivers Object, Car Routes Object, Booking Object.

A.Admin

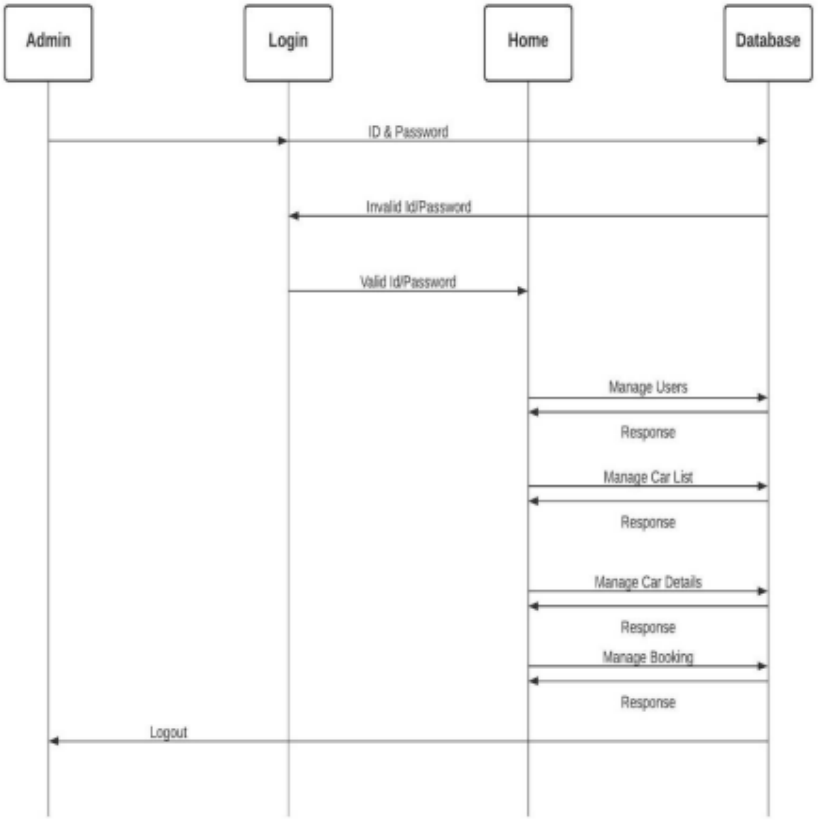


Figure 4.7: Sequence diagram for Admin

B. User

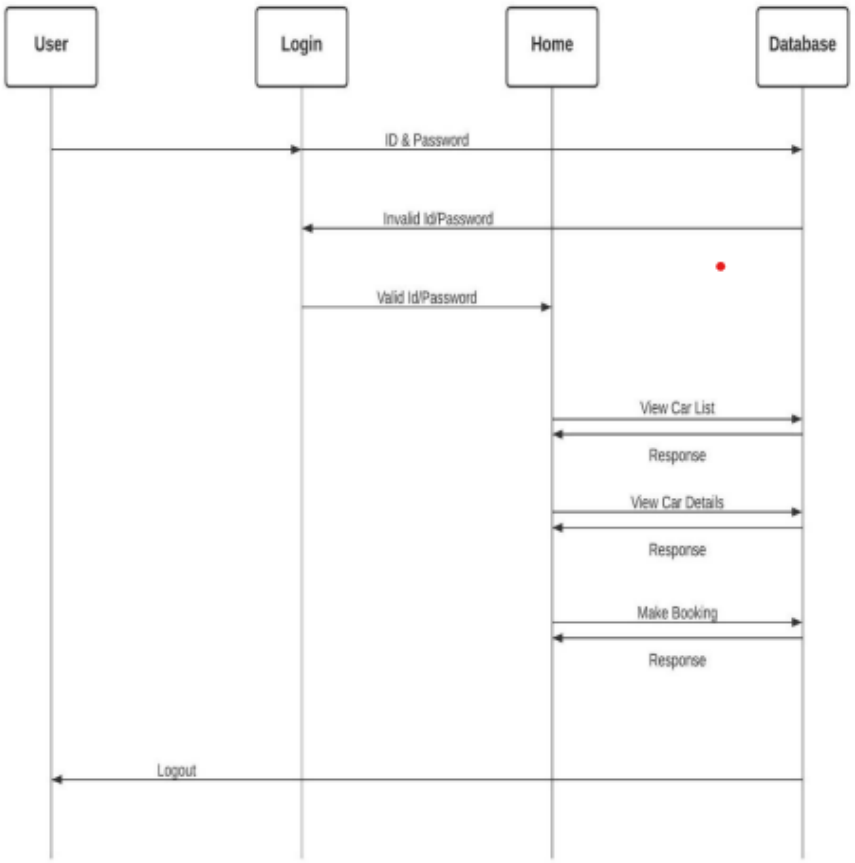


Figure 4.8: Sequence diagram for User

4.3.2 Data Design

A. Class Diagram

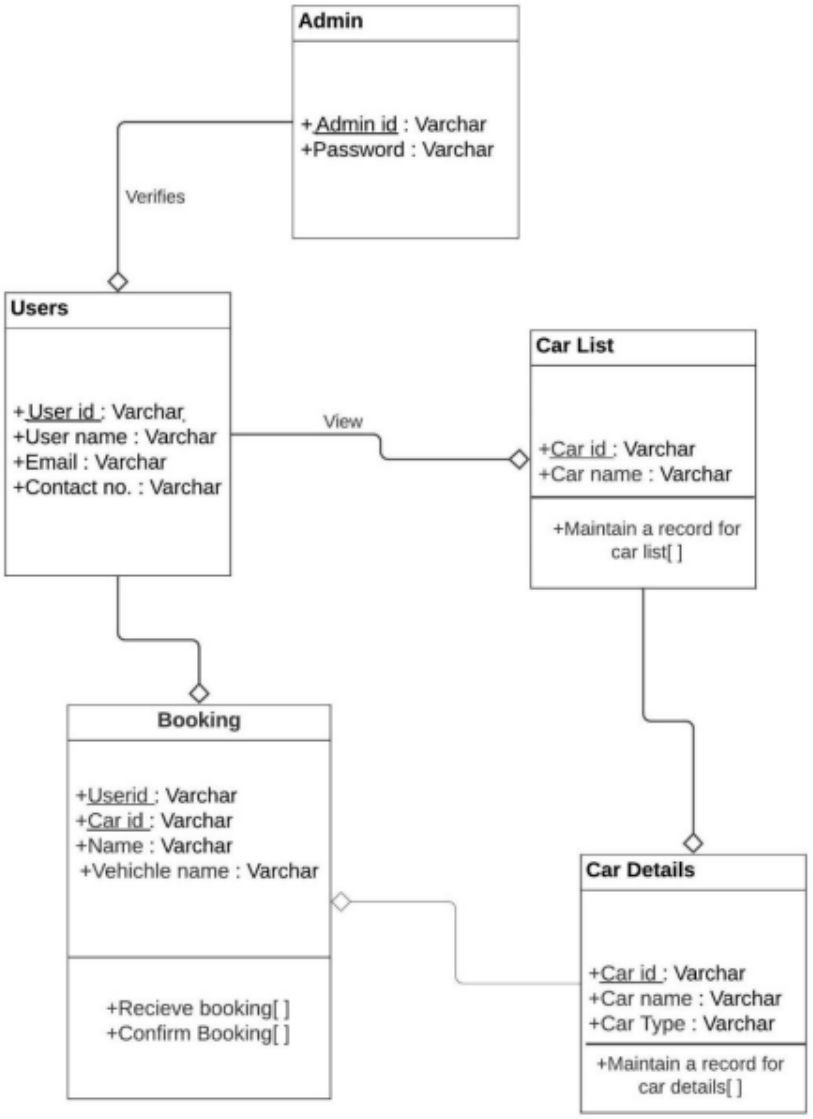


Figure 4.9: Class diagram for Online car rental system

Car Rental System Class Diagram describes the structure of a Car Rental System classes, their attributes, operations (or methods), and the relationships among objects. The main classes of the Car Rental System are Cars, Booking, Passenger, Car Routes and Drivers.

4.3.3 Table

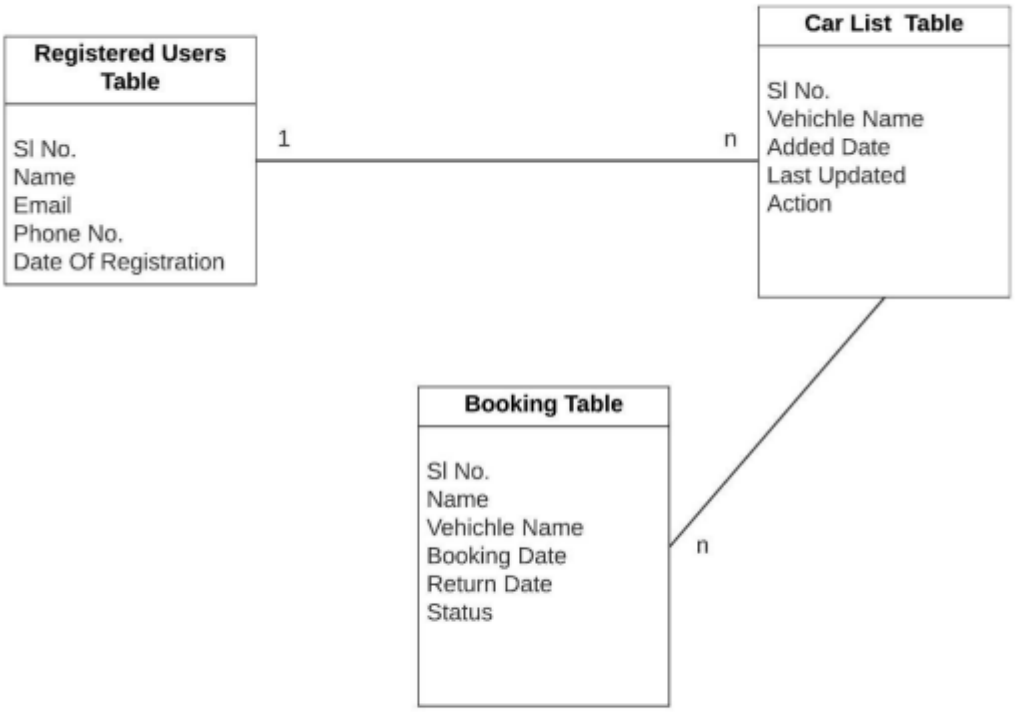


Figure 4.10: Table of Online car rental system

CHAPTER - 5
USER INTERFACE

5.1 Snapshots

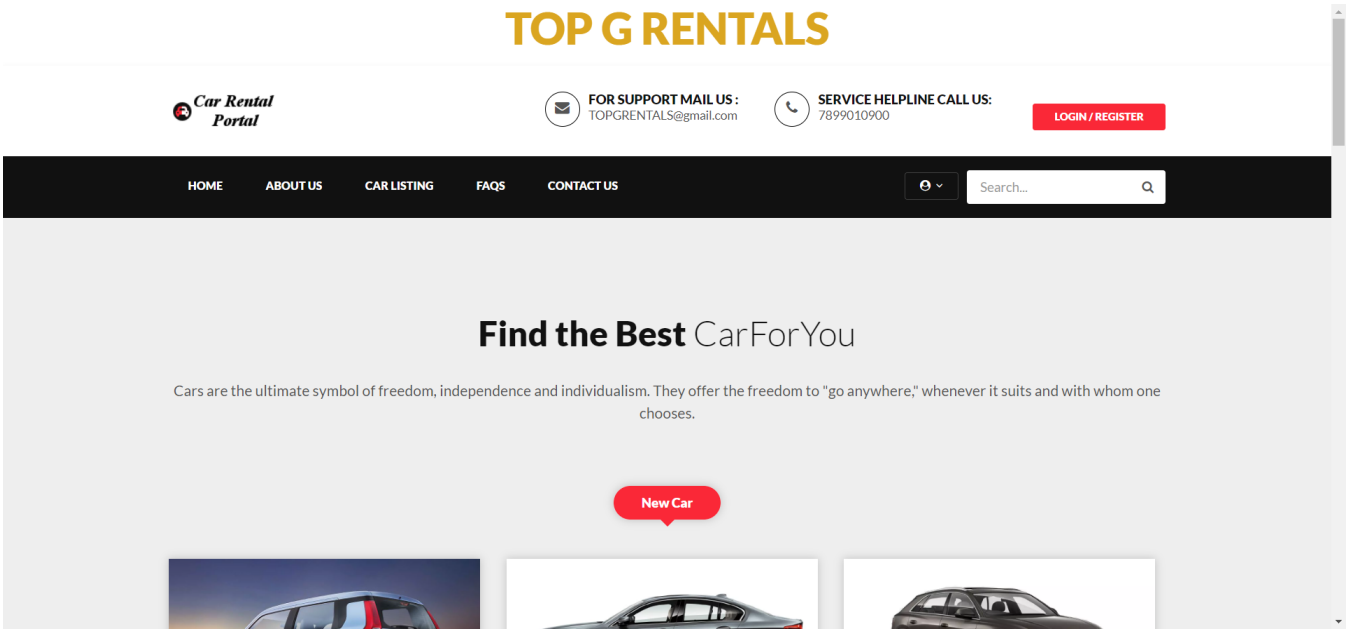


Figure 5.1.1 : Home page

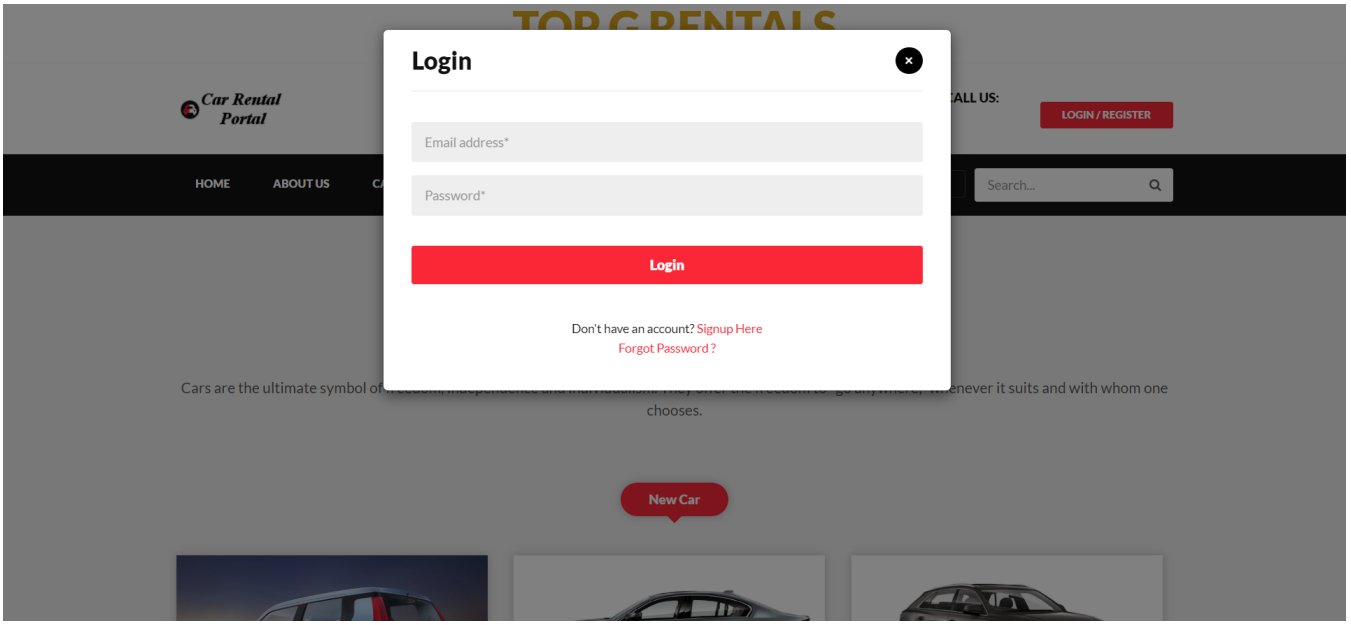


Figure 5.1.2 : Login Page

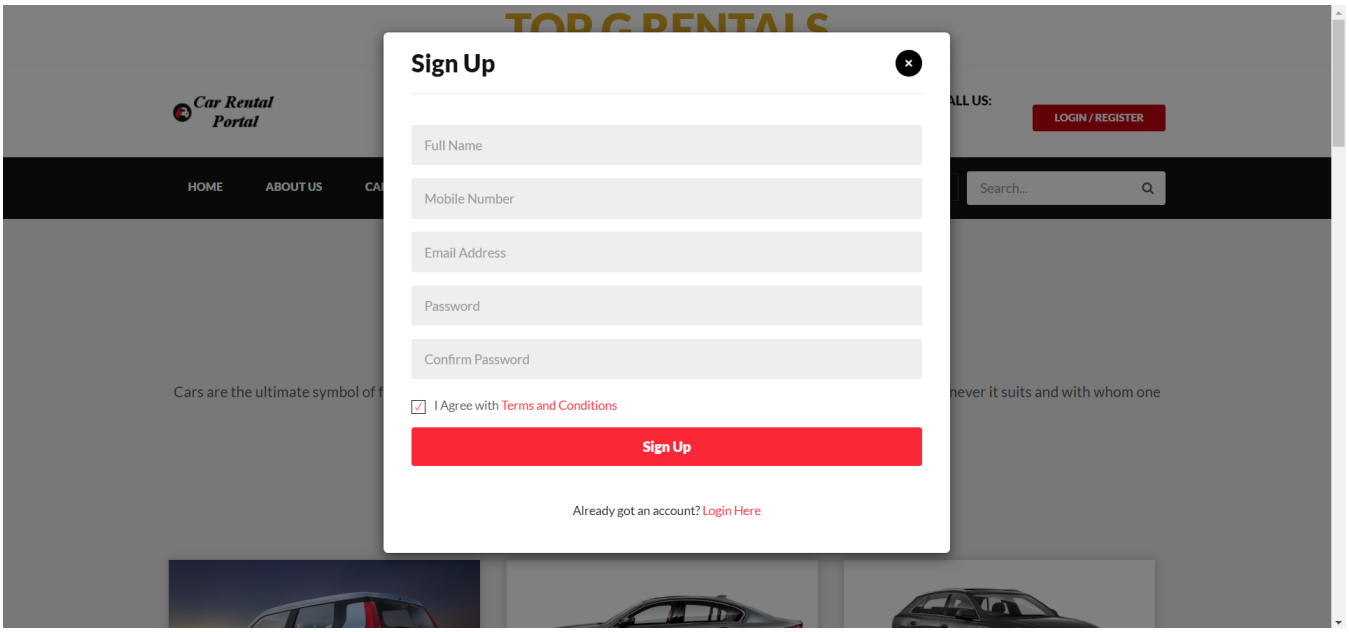


Figure 5.1.3 : Sign up Page

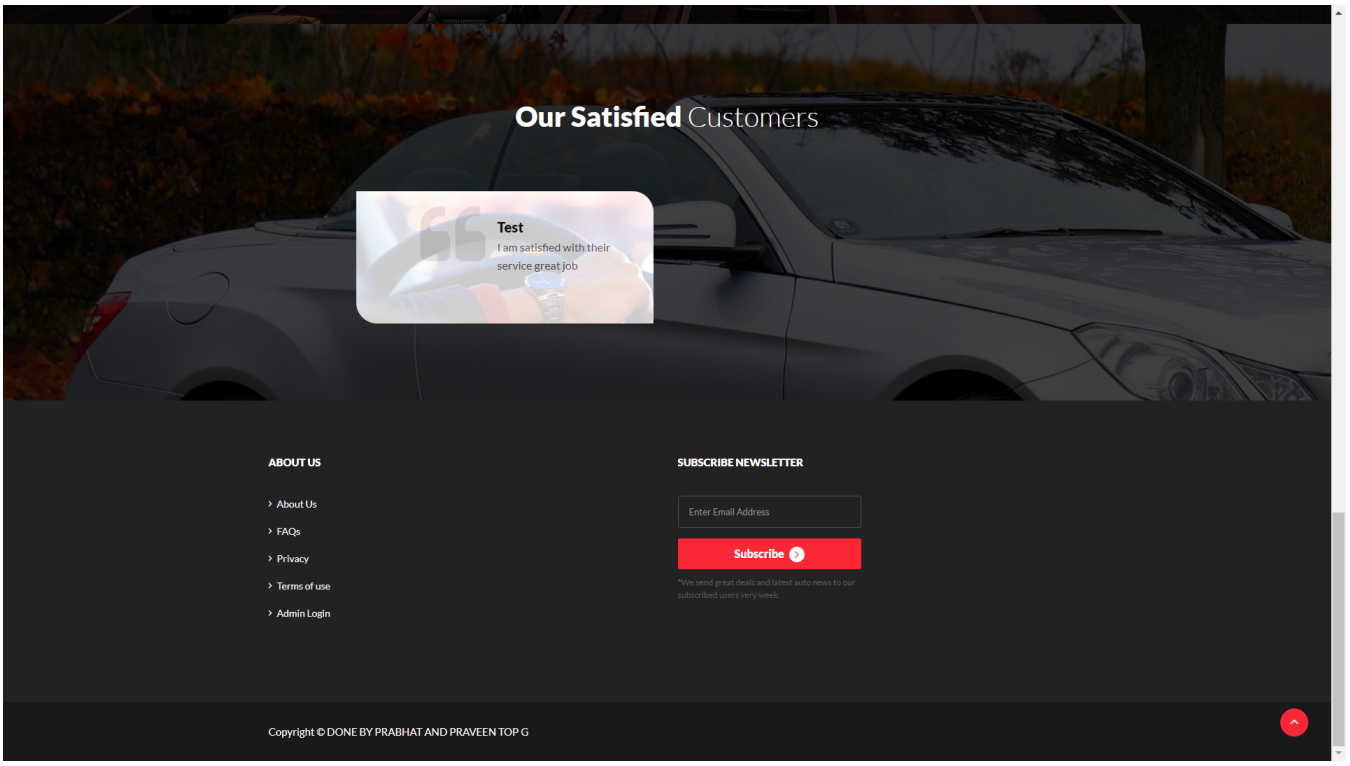


Figure 5.1.4 : Home Page

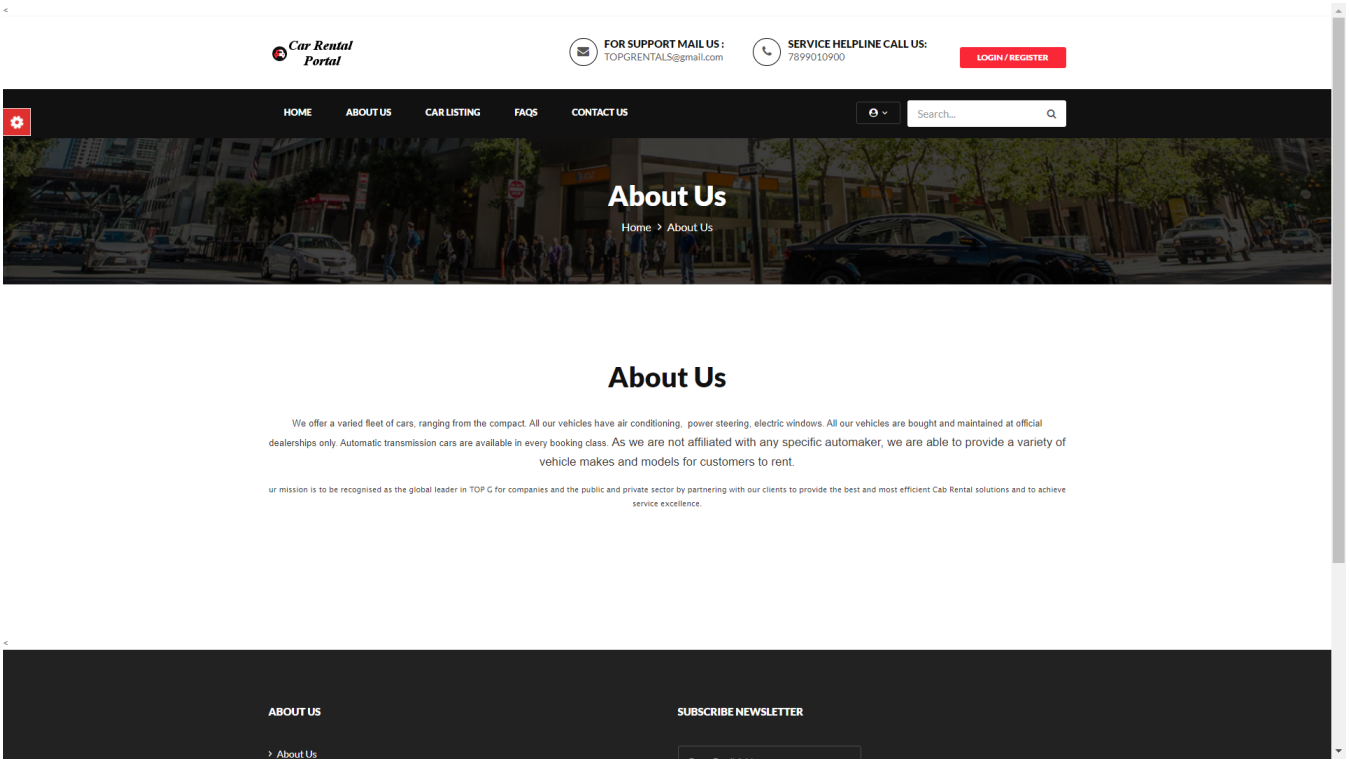


Figure 5.1.5 : About Us Page

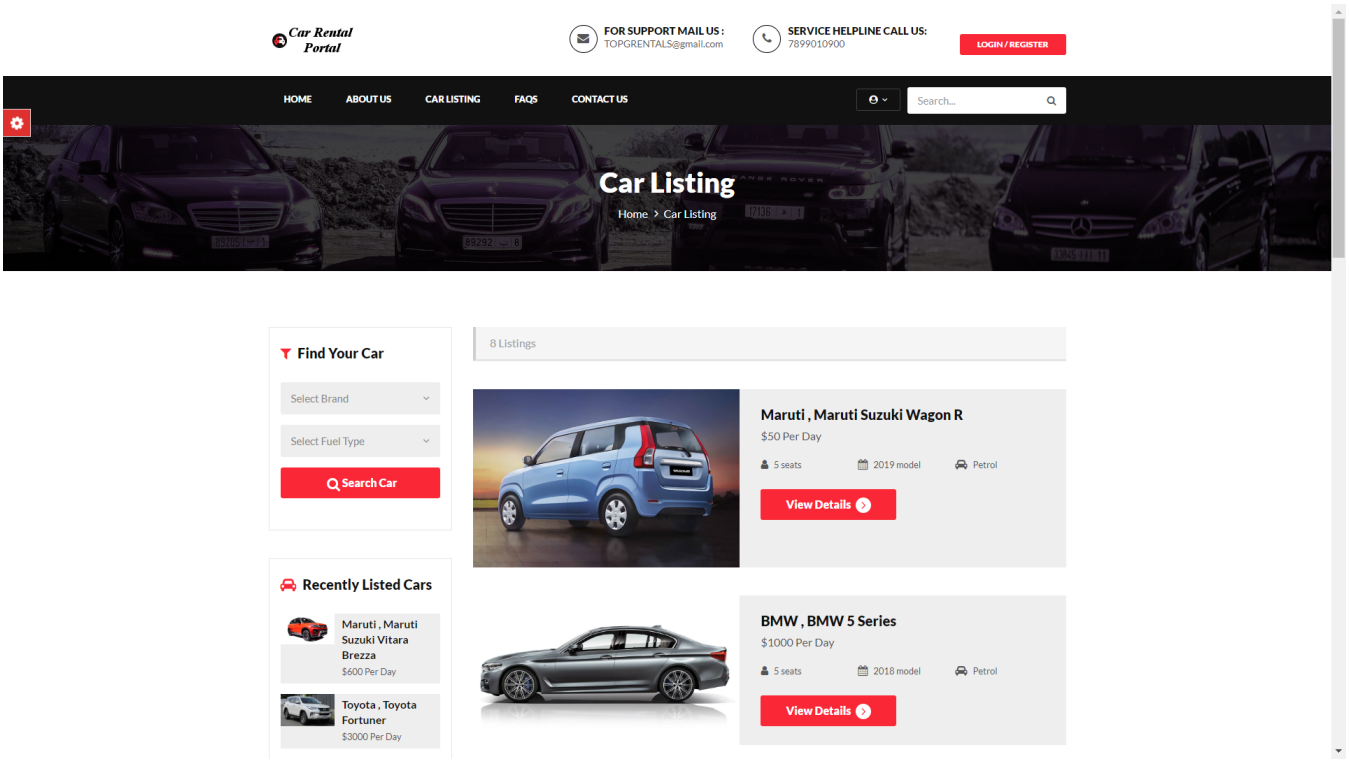


Figure 5.1.6 : Car Listings page

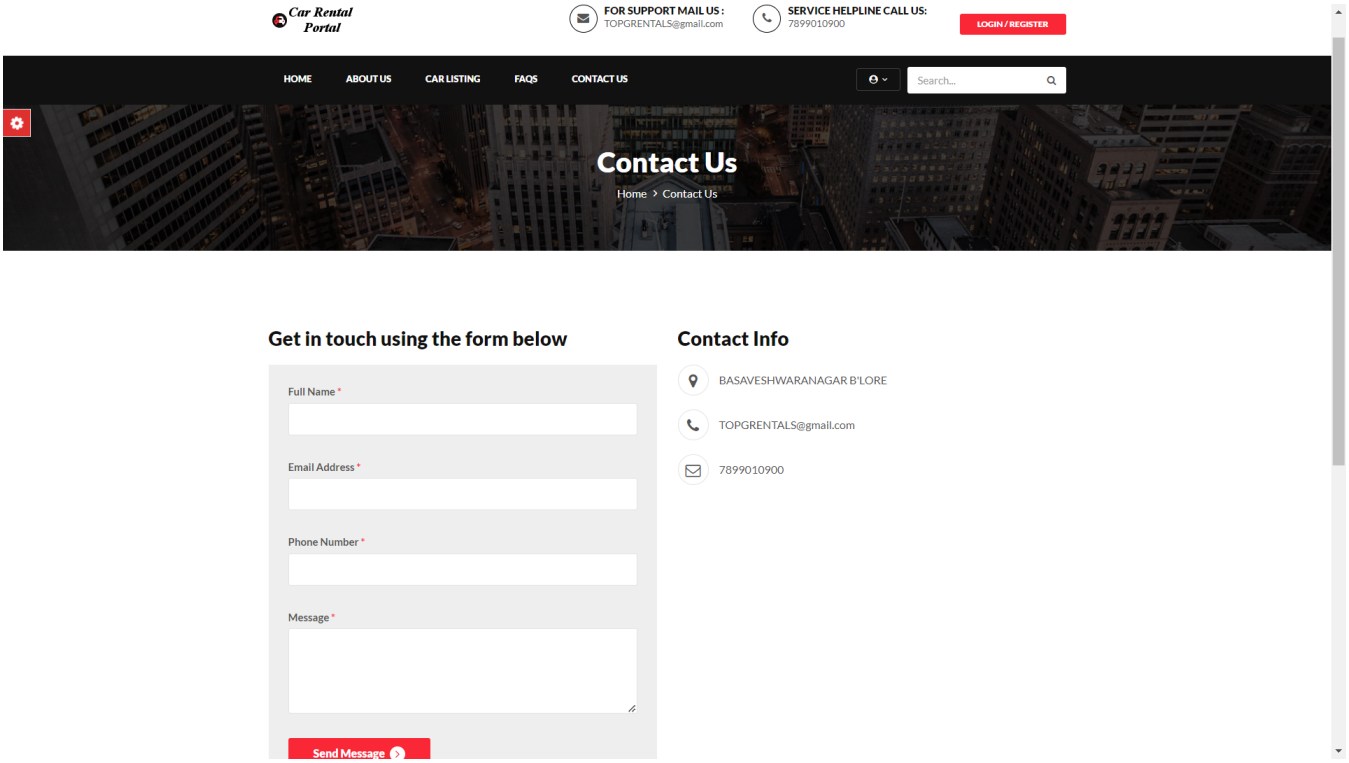


Figure 5.1.7 : Contact Us Page

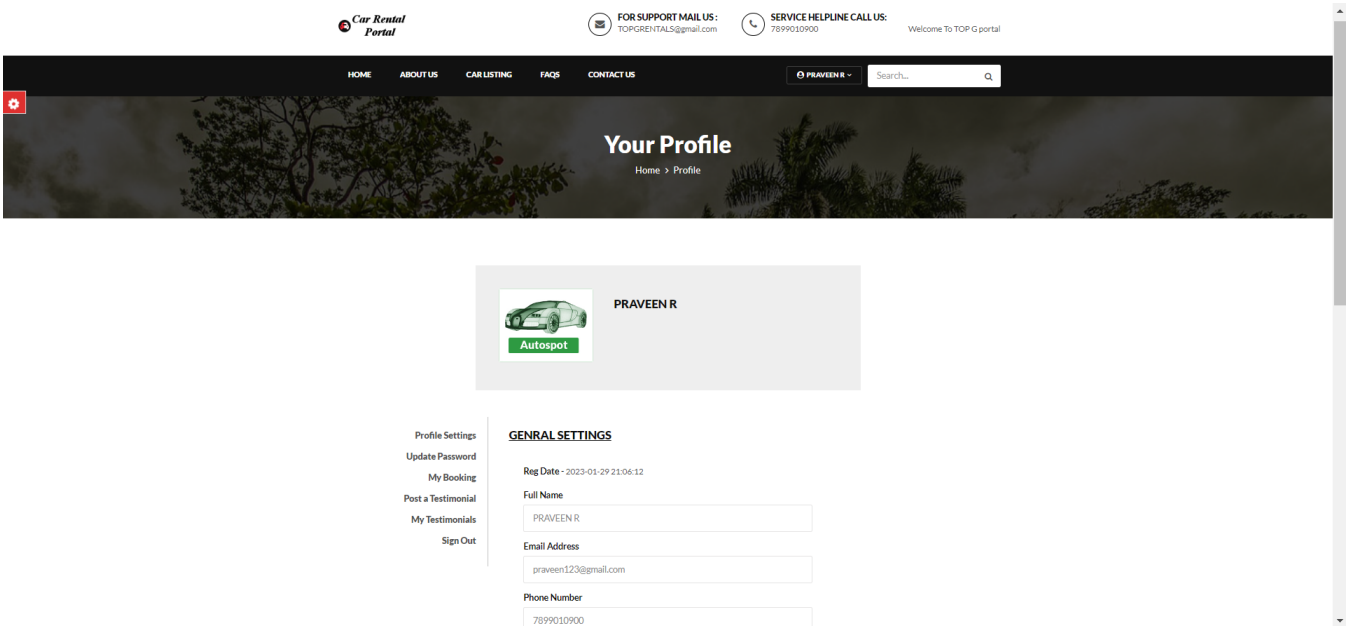


Figure 5.1.8 : User Profile Page

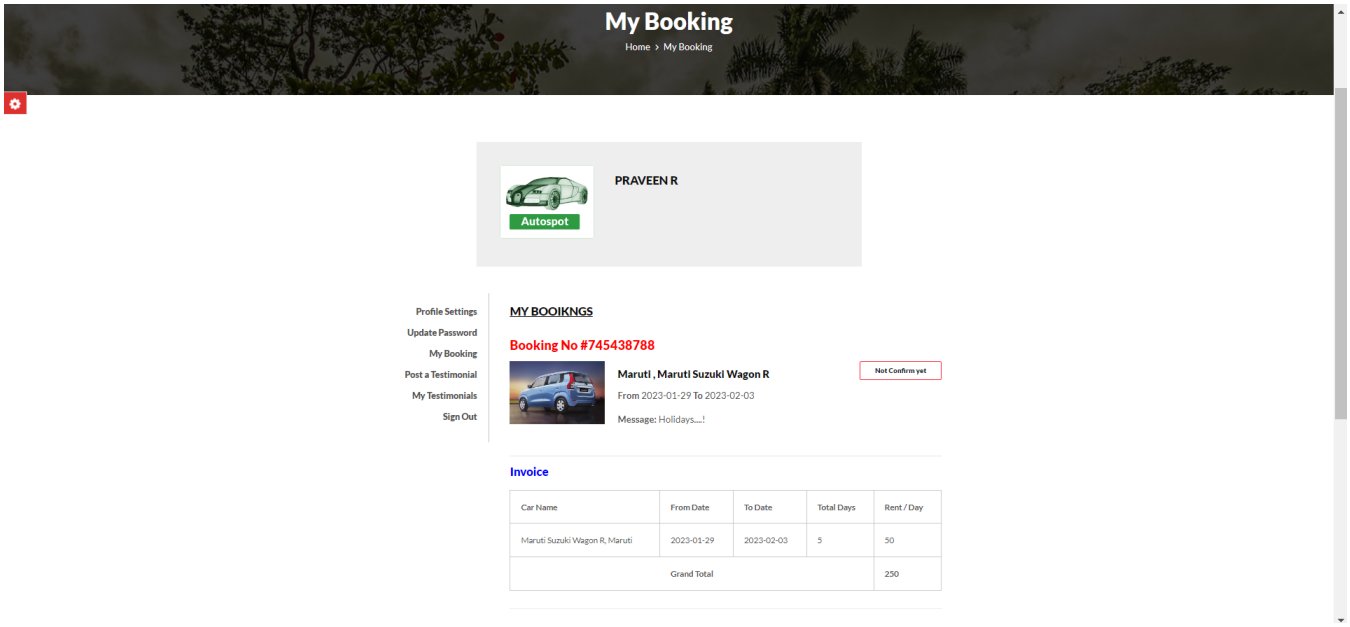


Figure 5.1.9 : My Bookings Page

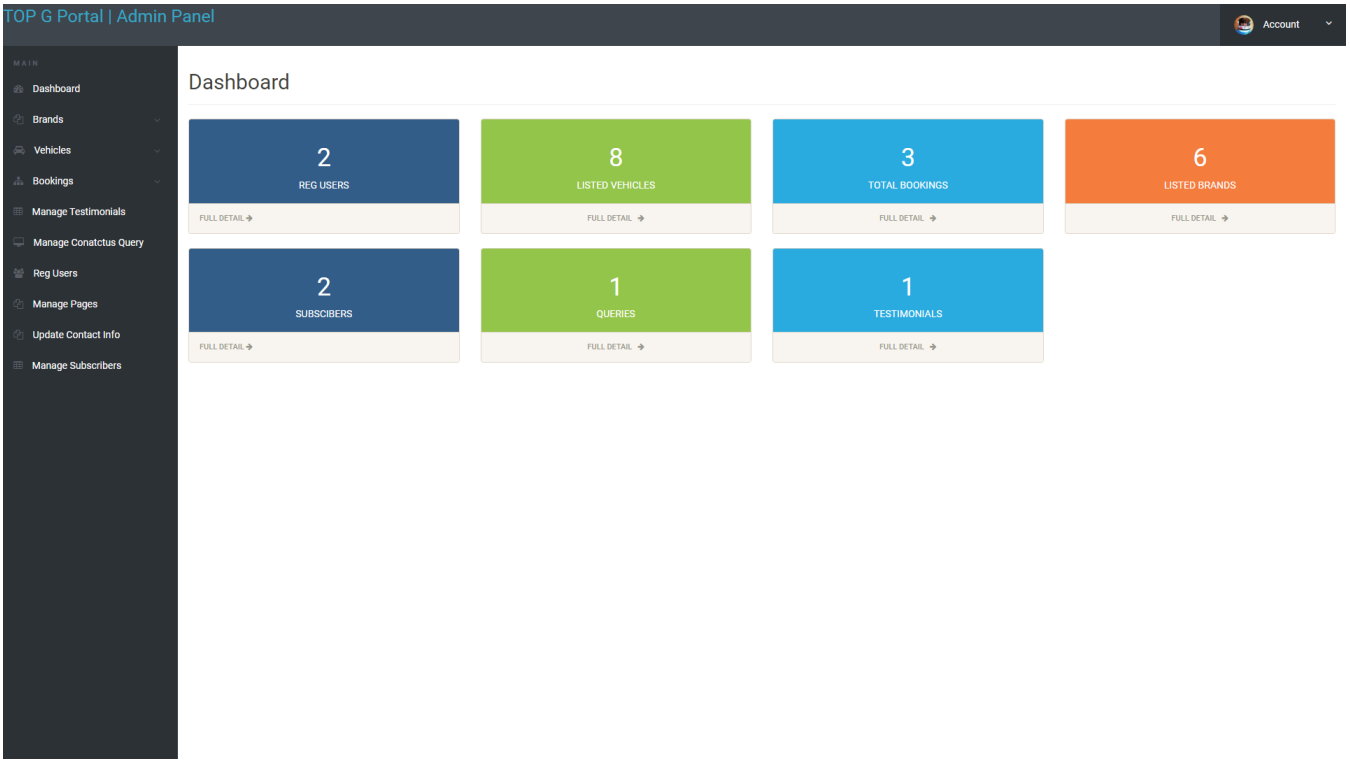


Figure 5.1.10 : Admin Dashboard Page

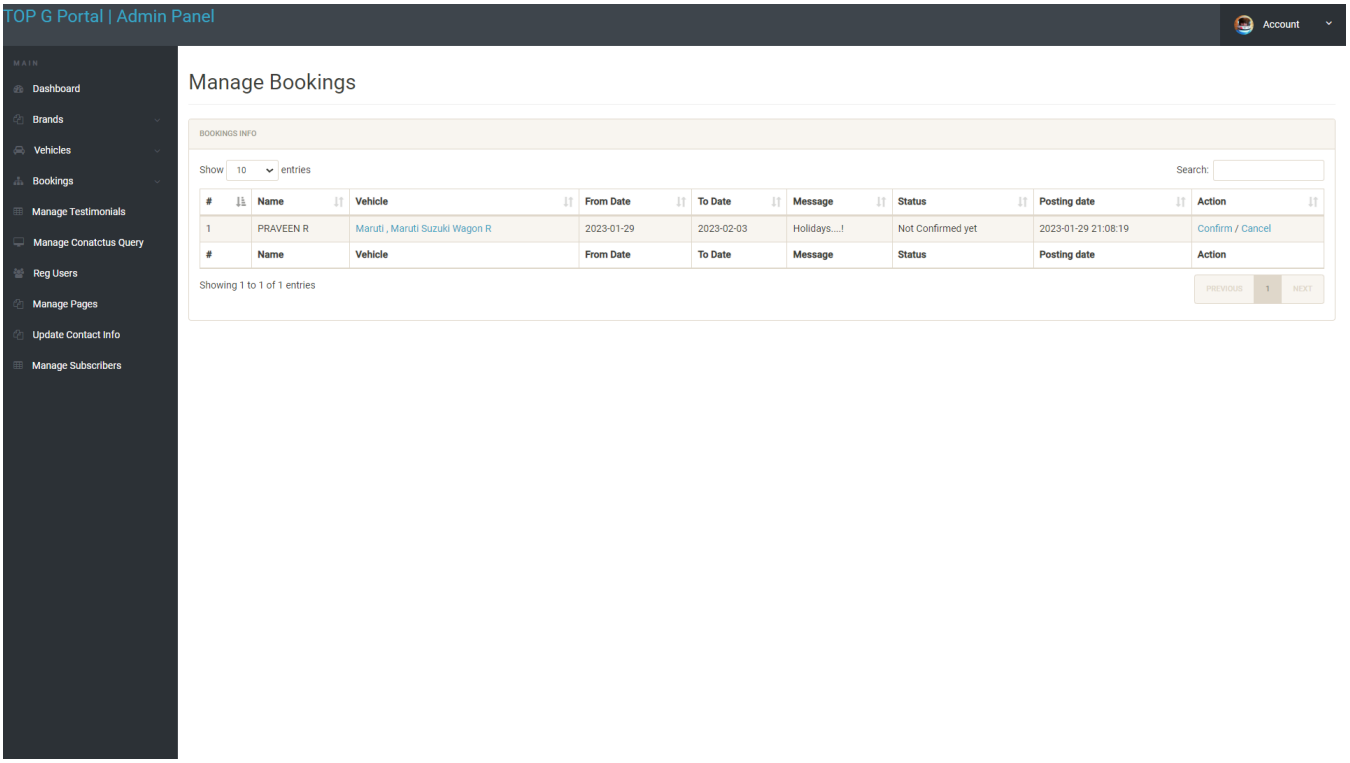


Figure 5.1.11 : Admin Bookings Page

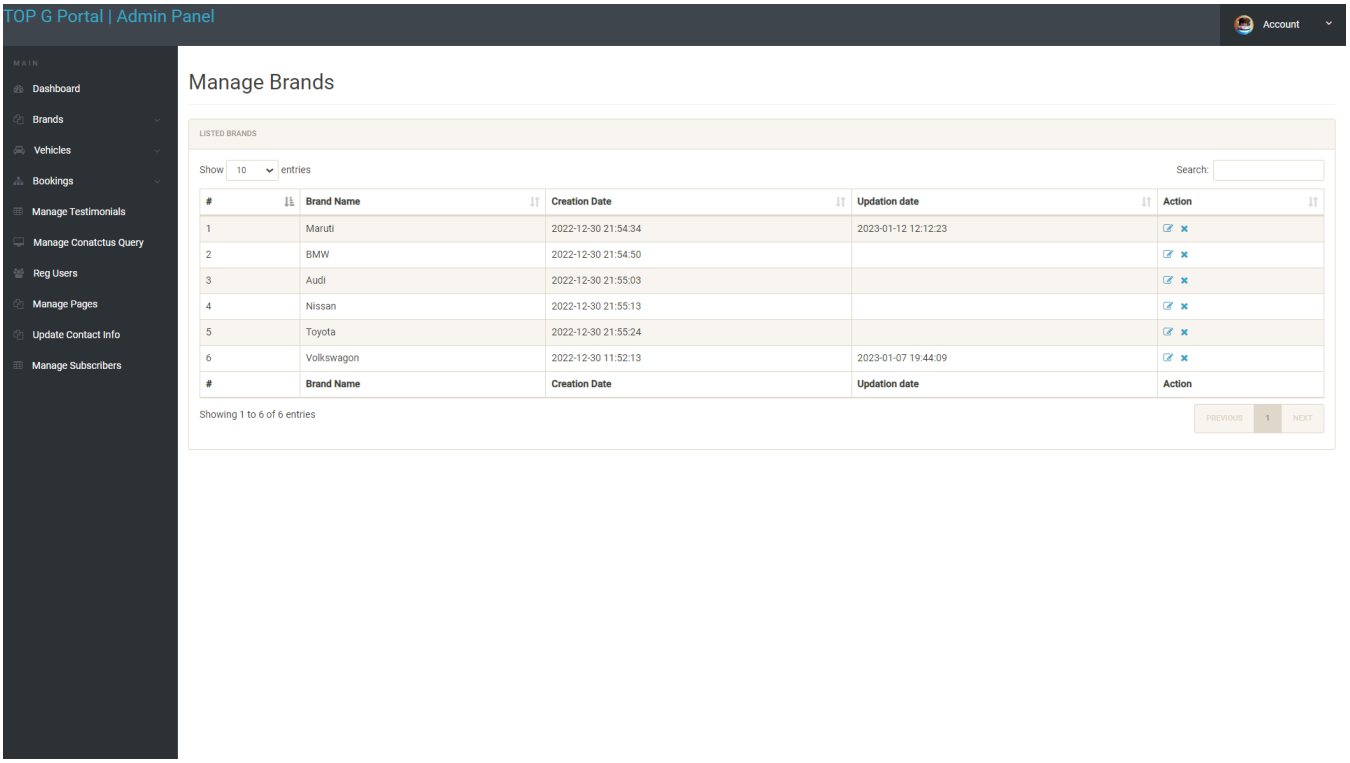


Figure 5.1.12 Admin Brands Page

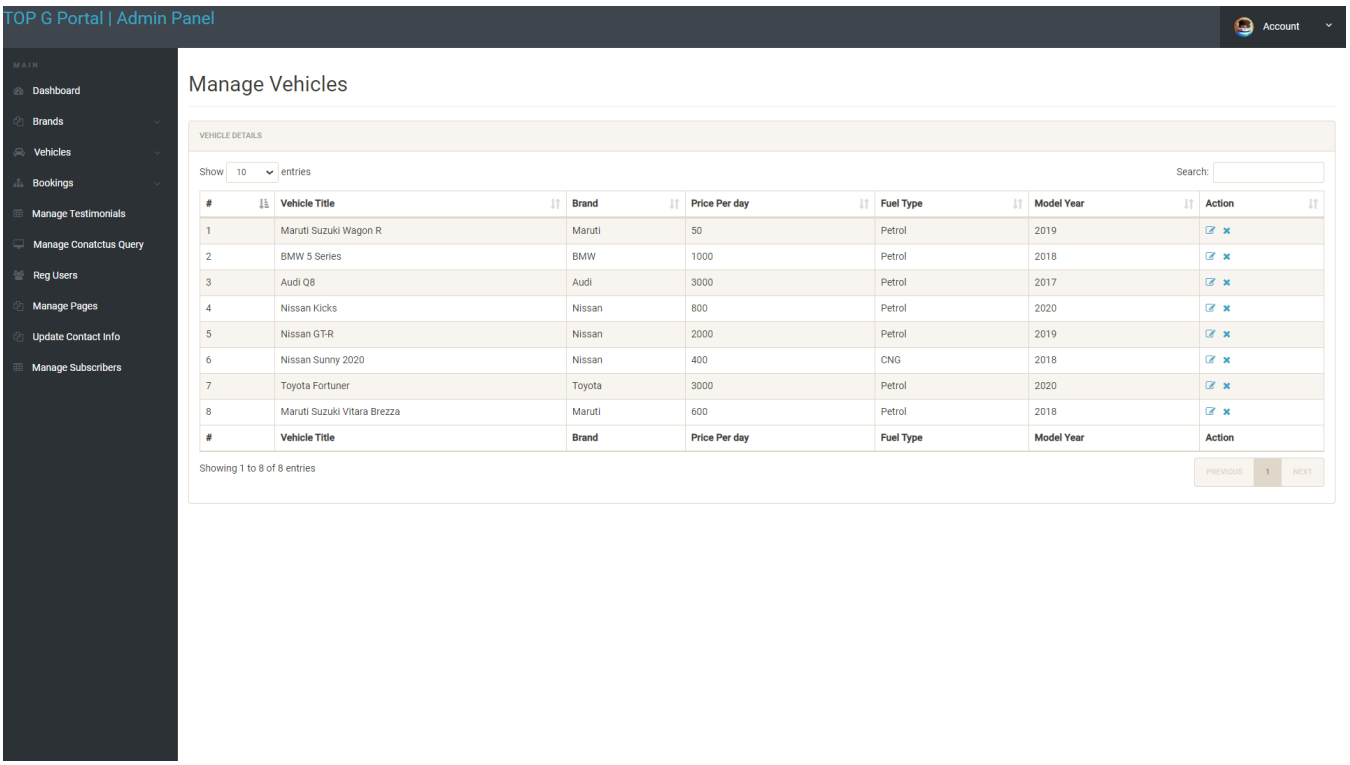


Figure 5.1.13 : Admin Listed Vehicles

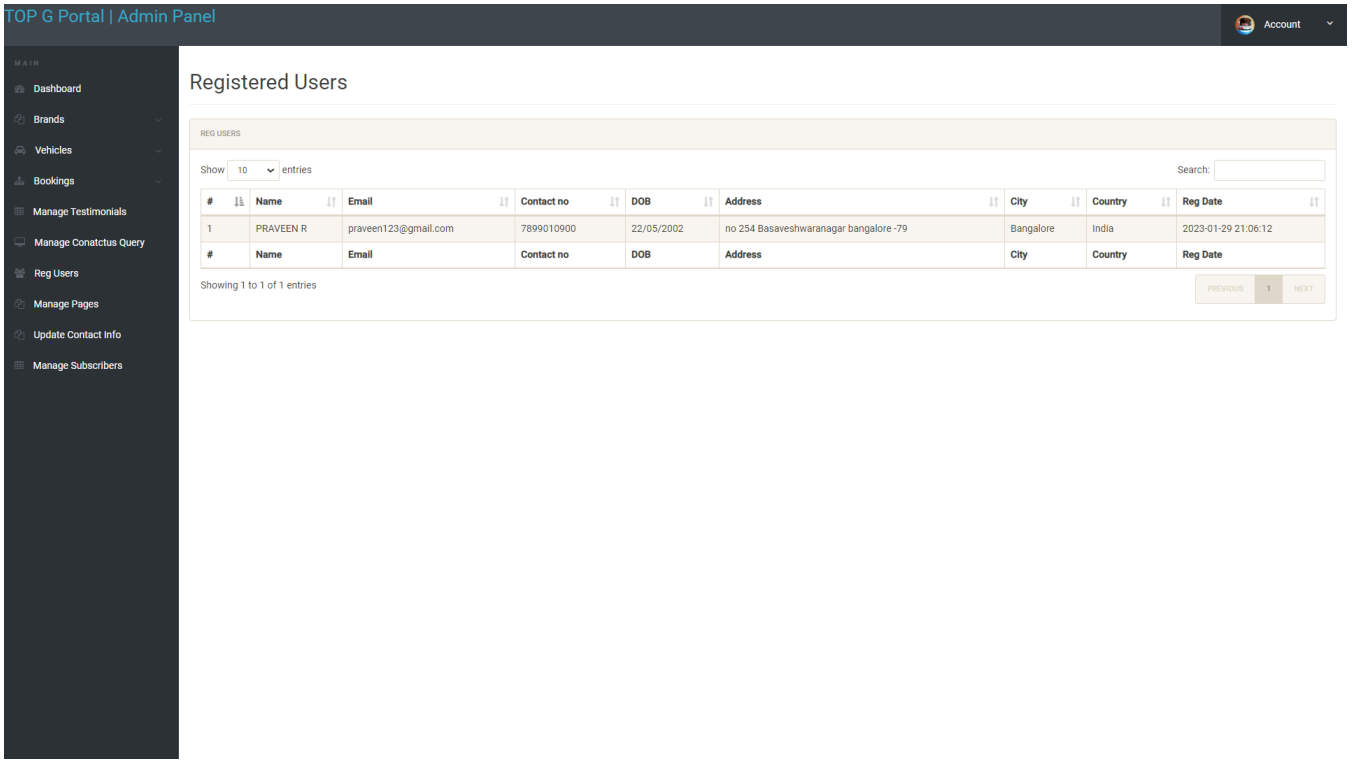


Figure 5.1.14 : Admin Registered User page

CHAPTER - 6
SOFTWARE TESTING

6.1 Introduction

Testing is the process of evaluating a system or its components with the motive to find whether it meets the required specification or not. It is done for finding the errors, mistakes, identifying any gaps or missing requirements with respect to actual requirements. To get good quality software we perform testing.

6.2. Black Box Testing

6.2.1 Admin

- When the application is made to run on the server, the home page of the admin will open then click on the login in the home page then give valid admin Id and password then click on login button.
- Once the admin login is successful, it will show a dashboard page where we have plenty of options including the Number of booking, registered users, listed vehicles ,list of brands, Subscribers ,Queries, Testimonials.
- To edit the listed vehicles click on edit then, edit the vehicle name then click update button, it will be updated, To delete the vehicle click on delete, vehicle will be deleted.
- To add a vehicle then click on vehicles option in the right side of the menu ,then click on post a vehicle, then add brand of the vehicle, then year of manufacturer, model of the vehicle, Then select the particular features of the vehicle and click on save.
- To confirm the booking then click on manage booking then select the particular booking and click confirm.
- To change the content of the pages in the user side click on manage pages and select the page which we want to change the content then type the suitable content and click save.
- To update the contact details, click on update contact details and change the address and click on save.

6.2.2 User

- Open the webpage there will be a login/register button on the right top corner, click on that and select signup, fill out the required columns, then click on signup. Again click on login/register button fill the email id and password then click on login.

- After signing in click on listed vehicles then select the vehicle and click more details then type the form and to date and click on book now.
- To change the password then click on update password on your profile, type new password and click save.
- To send any queries then click on queries option and type your email and message then click on send.
- To see the admin details, click on about us, then we can see the address

6.3 White Box Testing

6.3.1. Update password

- bindParam() function is an inbuilt function in PHP which is used to bind a parameter to the specified variable name.
- htmlentities() function converts characters to HTML entities.
- Md5() is predefined function.It uses the RSA DATA security

6.3.2.Change password

- Isset() function is an inbuilt function in PHP which checks whether a variable is set and is not NULL.

6.3.3.Vehicle Details

- Intval() function is an inbuilt function in PHP which returns the integer value of a variable.
- FetchAll() returns an array containing all of the remaining rows in the result set.

6.3.4.Contact us

- lastInsertId() returns the ID of the last inserted row or sequence value.

6.3.5.Car listing

- rowCount() returns the number of rows affected by the last DELETE,INSERT,OR UPDATE statements.
- ini_get() function allows you to read a value from the php .ini file without altering it.
- session_start() : creates a session or resumes the current one based on a session identifier passed via a GET or POST request, or passed via a cookie. When
- session_start() is called or when a session auto starts, PHP will call the open and read session save handlers.
- error_reporting(0); To remove all errors, warnings, parse messages, and notices, the parameter that should be passed to the error_reporting function is zero. It would be not practical to have this line of code in each of the PHP files. It would

be better to turn off report messages in the PHP ini file or in the

- The header() function:It is an inbuilt function in PHP which is used to send a raw HTTP header. The HTTP functions are those functions which manipulate information sent to the client or browser by the Web server, before any other output has been sent.
- The Include() function:It is used to put data of one PHP file into another PHP file. If errors occur the include() function produces a warning but does not stop the execution of the script i.e. the script will continue to execute.
- fetchAll() It returns an array containing all of the remaining rows in the result set. The array represents each row as either an array of column values or an object with properties corresponding to each column name. An empty array is returned if there are zero results to fetch, or false on failure.

6.4 Test Cases

6.4.1 Admin test cases

Test Case Id	Purpose	Input	Output	Result
Tc-01	To login wit verified/valid credentials for admin	User:admin Password:Test@12345	Show the admin page	Pass
Tc-02	To login with Invalid mail id for admin	Email:admi@gmail.com Password:Admin	Invalid mail address	Pass
Tc-03	To view the registered users details in admin page	Click on REG users on dashboard	Show the details of registered users	Pass
Tc-04	To view the listed vehicles in admin page	Click on Listed vehicle in dashboard	Show the listed vehicles	Pass

Tc-05	**To view the total bookings in admin page**	**Click on Total booking in dashboard**	**Show the Total bookings**	**Pass**
Tc-06	**To view the listed brands in admin page**	**Click on listed Brands**	**View the listed Brands**	**Pass**
Tc-07	**To view the subscribers in admin page**	**Click on subscribers on dashboard**	**Show the subscribers**	**Pass**
Tc-08	**To view the queries in admin page**	**Click on Queries on dashboard**	**View the queries**	**Pass**
Tc-09	**To view the testimonials in admin page**	**Click on testimonial on dashboard**	**View the testimonial**	**Pass**
Tc-10	**To add a brand**	**Click on post a brand on brands and add a brand**	**New brand added**	**Pass**
Tc-11	**To edit a brand**	**Click on manage brands on brands and edit**	**Changes saved**	**Pass**
Tc-12	**To add a vehicle**	**Click on post a vehicle on Vehicles and add a vehicle**	**New vehicle added**	**Pass**

Tc-13	**To edit a vehicle**	**Click on Manage a vehicle on vehicles and edit the details**	**Changes saved**	**Pass**
Tc-14	**To confirm booking**	**First click on manage booking and then click on confirm for confirming the booking**	**Booking Confirmed**	**Pass**
Tc-15	**To decline booking**	**Click on decline instead of confirm for decline the booking**	**Booking declined**	**Pass**

6.4.2 User Test case

Test case ID	Purpose	Input	Output	Result
Tc-16	To give valid details for Registrations	Name:- PRAVEEN Email:-Praveen123@gmail.com Phone number:-7899010900 Password:-Praveen@123Confirm Password:-Praveen@123	Registration Successful	Pass
Tc-17	To Login with valid credentials	Email ID:-Praveen123@gmail.com Password: Praveen@123	LoginSuccessful & show welcome message in home page	Pass
Tc-18	To login with invalid mail id	Email ID:-ab@gmail.com Password:-abin123	Invalid mail id	Pass
Tc-19	To select car listing in home page	Click on car listing	Show the listed Vehicles	Pass
Tc-20	To view car details	Click on car details in car listing page	Show the car details & booking button	Pass
Tc-21	To select Book now	Click on book now button	Show the booking page	Pass
Tc-22	To view Faqs in home page	Click on Faqs	Show the Faqs page	Pass
Tc- 23	To view about us in home page	Click on about us	Show the about us page	Pass

Tc-24 **Tc-25**	**To select the User profile** **To Select my profile**	**Click on the user profile icon** **Click on my profile in user settings**	**Show the user settings menu** **Show the my profile page**	**Pass** **Pass**
Tc-26	**To select My booking**	**Click on my booking in User settings**	**Show the my booking page**	**Pass**
Tc-27	**To select update password**	**Click on update password in user settings**	**Show the password updating page**	**Pass**
Tc-28	**To logout**	**Click on logout in user settings**	**Go to the login page**	**Pass**

CHAPTER - 7
CONCLUSION

The world has become a place where there is a lot of technological development; where every single thing done physically has been transformed into computerized form. Nowadays, people's activities have been transformed into work done by computerized systems. One of which is the main target of this project which is about the Car Rental System. The system of renting cars existed back in the previous years, where people rent cars for their personal reasons. Car renting is essential to many peoples' plan to travel or move from one place to another for business purposes, tour, and visit or holidays.

Some car rental companies still use desktop applications for their car rental services and thus making it to be limited to so many important features that are not available unlike in the web based application where there are so many features available. Also some upcoming companies do not only make use of these desktop applications, but also make use of phone call reservation, which is still lacking so many features that are needed for this type of system.

In our application we have simplified the booking procedures and the customer can easily perform the booking and there is a collection of cars where the customer can select according to their wish. the customer can book their vehicles according to their particular date. In admin side the booking information will be saved to the database, the admin can add new vehicles to the database and manage the booking

CHAPTER - 8
FUTURE ENHANCEMENT

- In the future the application can be occupied with the payment option within the application and the user may get a billing receipt.
- The application can contain the SMS alert to notify the user.
- The user can be notified with the messages.
- Vehicle tracking systems can be implemented to trace the location of given cars.
- Online Car Rental can provide on road assistance for the users.
- The application can assist with customer helpline for any queries.
- The application can provide Online cancellation.
- Multi-language support can be set to the application for better experience.

CHAPTER - 9
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