

**DESIGN AND DEVELOPMENT OF A WEB BASED APPLICATION FOR
CAR RENTAL PORTAL**

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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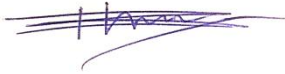
MAY 2021

APPROVAL

This Project titled “**Design and development of a web based application for car rental portal**”, submitted by Hafijur Rahman, ID: 163-15-8376 and Sojib Islam, ID: 162-15-7724 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 31st May 2021.

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We hereby declare that, this project has been done by us under the supervision of **Warda Ruheen Bristi, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ACKNOWLEDGEMENT

First we express our heartiest thanks and gratefulness to almighty Allah for His divine blessing makes it possible for us to complete the final year project successfully.

We are really grateful and wish our profound indebtedness to **Warda Ruheen Bristi, Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “Web Design and Development project” to carry out this project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stages have made it possible to complete this project.

We would like to express our sincere gratitude to **Prof. Dr. Touhid Bhuiyan**, Head, Department of CSE, for his kind of help to finish our project and also to other faculty members and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discussion while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

In this intellectual documentation of our project, we will share our ‘Car Rental Portal’ website procedure and also about our ideas for this project. “Car Rental Portal” is a website-based project that will allow us to find a car for rent. This website was made with the idea of car rent service in Bangladesh and mainly in Dhaka city. Dhaka is one of the most crowded cities in the world. We can’t find it just in time when we need a thing. Because of the huge traffic jam, we don’t get a rental car in time. To solve this problem, we made this website that will help anyone to rent any car with a reasonable price. It’s so easy and user-friendly to use this website with a smartphone. There will be two types of users. User and Admin panel. Both user and car providers must have an account to use this website services with some valid name, mail, password and other documents. When account opening is done, they can use the website now on. There may be some other websites like uber, pathao and others but those services are ride sharing services from one place to another. But our website will provide full day rental services and also for long distance travel. Price will be calculated according to the type of rental services. For Dhaka city and outside of Dhaka, price will not be calculated the same way. So, the price will be reasonable.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

The “Car Rental Portal” is a web-based project. It builds on the idea of car rental services where people can find their specific car for rent in different segments. This system aims to help people who do not have access to personal transportation in our country, especially in Dhaka. We should look for a vehicle to hire at any time to get where we need to go. This system would allow them to collect all of a car's information on a single platform: weddings, vacations, home moves, tours outside of Dhaka, and various other occasions.

1.2 Motivation

In this 21st century most of the peoples are searching for better services in every category in our livelihood. There are several companies that provide services like us. On that website we can find several services at once like car rent, rideshare, food order, bike ride sharing services and many more. For this reason, all those services can't be good all at once. One service may be good and one's average. So, we decided to build a service that will only serve one specific Niche and that is car rental service. There are a few websites or services that work on any specific niche. So, we worked on a very specific niche to provide the best services we can afford. Nowadays, everything is converted to an online marketplace. Rental services are already included at this marketplace. When people are searching for a better option in any specific niche, they would definitely like the services that worked on one specific term. That motivates us most. And another thing that motivates us is working on one specific niche.

1.3 Objectives

- A robust database.
- Ensuring the safety of consumers.
- To maintain a positive user-administrator relationship.
- The ability to quickly locate any car in range.
- To ensure that the users' needs are met.
- We hope that people will learn from this scheme, among other things.

1.4 Expected Outcome

- Best outcome: finding your desired car for rent.
- Ensure the security of the users.
- Find out Easily all the cars in one place.
- The good relationship between users and admin.
- Ensure the professional high-class services.

Mainly we are ensuring the professional best class and strong security online base web Car Rental service and also ensure very expensive cars around the world.

1.5 Report Layout

Chapter 1: Introduction

We will discuss here the motivation, expected result, and goals of our project. Then discuss our report layout.

Chapter 2: Background

Here we will discuss the project's key situation, as well as related work in comparison to other locations, the scope of the issue, and the project's problems.

Chapter 3: Requirement Specification

We learned about the modeling process, requirement selection, and analysis, a case model for using the project framework and its description, a conceptual model of a relational database, and design specifications here.

Chapter 4: Design Specification

All of our project's external and internal architecture, interaction, and implementation specifications are outlined here.

Chapter 5: Implementation and Testing

The database implementation, user interface design, interaction, and project test results can all be found here.

Chapter 6: Conclusion and Future Scope

Here we will address our results and future growth prospects, which are often project-based.

CHAPTER 2

BACKGROUND

2.1 Introduction

The “Car Rental Portal” is a web-based project. It builds on the idea of car rental services where people can find their specific car for rent in different segments. This system aims to help people who do not have access to personal transportation in our country, especially in Dhaka. We should look for a vehicle to hire at any time to get where we need to go. This system would allow them to collect all of a car's information on a single platform: weddings, vacations, home moves, tours outside of Dhaka, and various other occasions.

2.2 Related Works

In this Car rental system, users can easily find a booked car within their range just by login to our website. There are several services like that but we worked on a very specific term. We will make sure with the premium quality of cars and also a high-quality performance with a high-quality database and easy to use for all. Also, we ensure the security of users and their information. Users' passwords will be encrypted so that only they can access.

2.3 Comparative Studies

The implementation of our “Car Rental” website is quite separated from the car rental websites we have. Where every user can see cars and prices without login, but when they need to book a car, they must login with a specific username and password. Every user can log in and sign up at any time to book a car. The website maintenance is easier for users and also for admin. It does not delay. It is processed and it is a very fast system and user-friendly.

2.4 Scope of the Problem

- It is a platform where users can rent a car for a whole day.
- Admin can add, modify, delete or upload cars.
- Admin can add a category to enter a new car on them.
- Users can easily create an account and log in then they can get access.

2.5 Challenges

There is no such thing as a job that isn't challenging. Similarly, we ran into some issues with our proposal. Initially, we are attempting to build this device based on the administrator's and owner's inspiration, so we must meet the user's specifications, which is extremely difficult. Our website, on the other hand, is user-driven. Bangladesh is a country in the process of developing. This task aims to find user-friendly methods for increasing productivity at home by careful monitoring and analysis. Our primary goal is to ensure that this website is completely free and user-friendly, allowing everyone to use it without difficulty. Our main challenge in this web application framework (car rental) is to meet all of the users' needs. Another challenge is difficult to maintain all systems. This system has another challenge: add as many cars as we can. We will pursue how to solve or we will provide solutions to the problem. We will refer to our services throughout the rest of our services. Here are the given below some challenges.

- Make sure that the database is strong.
- Management is too difficult.
- Ensure the security of user's information.
- Many users can access at a time.
- Good quantity of every car.
- Admin has access to the database and saves from unauthorized access.
- Cars will be added with specific categories.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 “Car Rental Portal” Information Process Modeling

In our Car Rental Services, we have made a processing model. By that we can understand all the process of our car rental website. Here is the given below

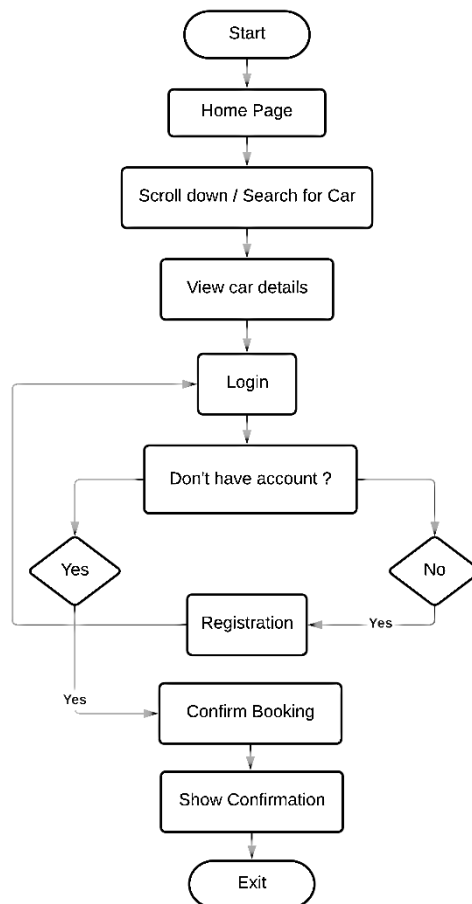


Figure 3.1: Car rental Service processing model

3.2 Requirement Collection & Analysis

During the implementation of the program and data collection, some simple and very necessary specifications are gathered. Here given below.

- To book a vehicle, we must first establish an account.
- A valid email address was needed to reset the password and perform other system functions.
- The ability to remove a user as required by the administrator.
- Admin needed to be able to alter, edit, and upload car information.

- Users need to enter his name and email and other details to create an account.

3.3 Use Case Modeling and Description

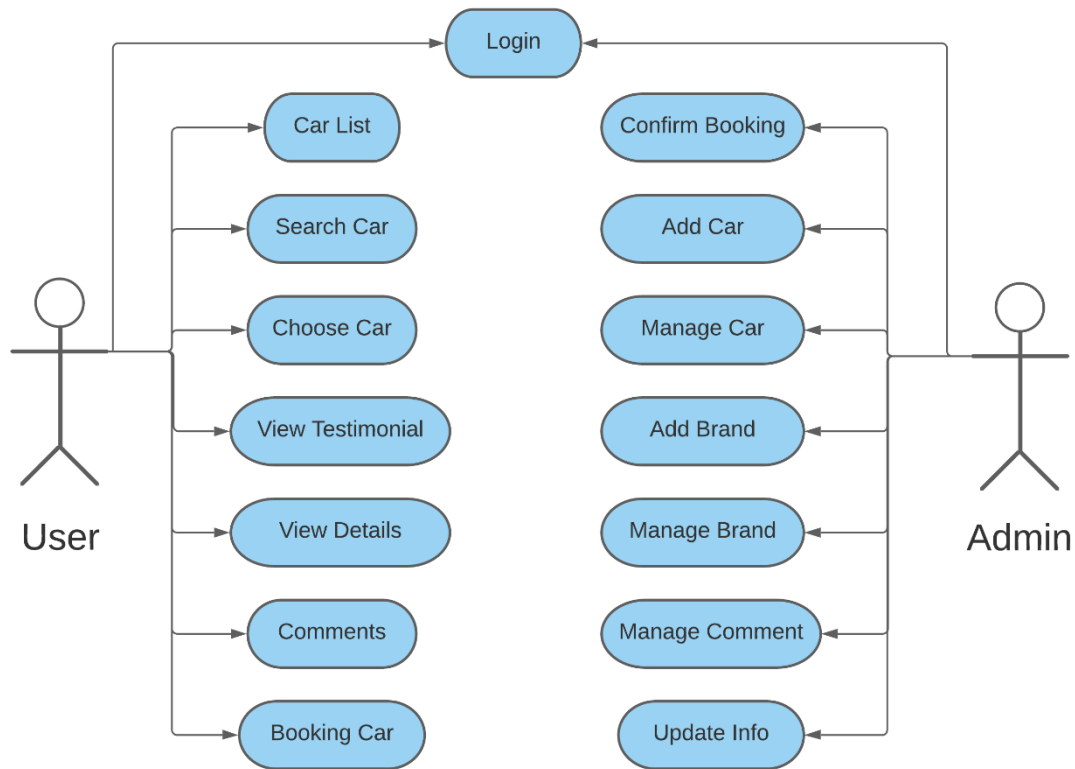


Figure 3.2: The use case model of Car Rental Service.

3.4 Design Requirements

- This system will contain two types of users, such as user and Administrator.
- Users have to produce an account.
- Administrators can add, edit, delete cars.
- Booking is only available when logged in.
- Administrators maintain all access.

CHAPTER 4

DESIGN & IMPLEMENTATION

The design of the Car rental service is introduced in this chapter. We also state that all methods and technology used to create this framework have been implemented. Here is the data that demonstrates how we checked our system after completing the steps outlined in the introduction.

4.1 Front-end Design

The interface works at the presentation level. It shows the user the only opportunity to interact with our tariff system. The external interface is the most important component of web systems development. The external interface is also called the client zone. The purpose of site development is that users can easily read and compress this information when they open the site. From Wikipedia, free encyclopedia op, access navigation, search. Web front development, also referred to as client level development, is the practice of making HTML, CSS, and JavaScript on an internet site or web application in order that the user can directly view and interact with them. Developers create components and functions that the user indirectly accesses through a program or system interface. It's a kind of interaction between users and servers. Interface design is understood as customer development. In many aspects of software development, the foremost important part is the development of an external interface. We created an easy external interface for users to simply interact with the software. Here are some design options. [1]

4.1.1 Home Page

This website has a login menu bar. The entire site is fully responsive, which means it can be seen on many devices.

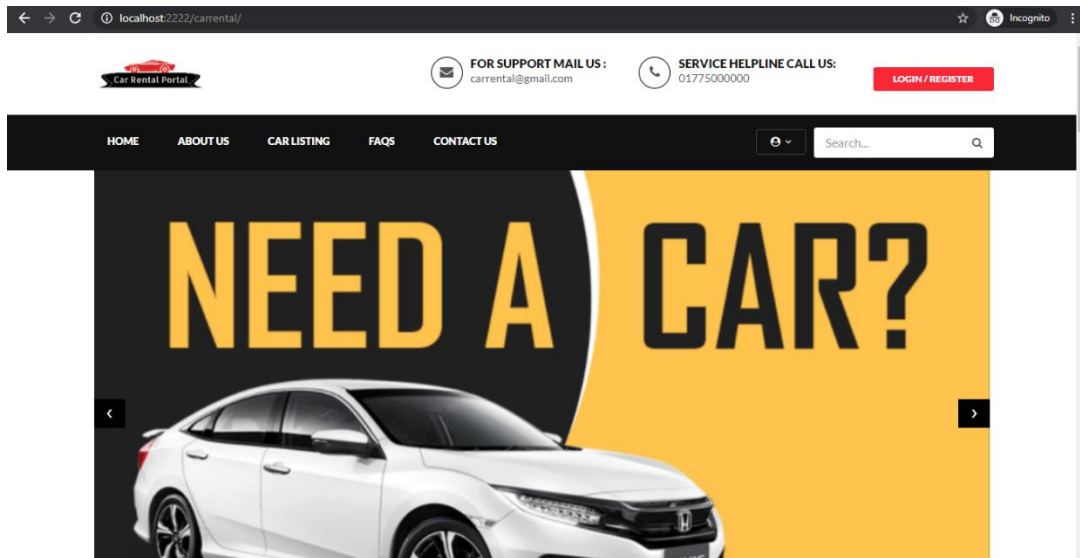


Figure 4.1.1: Home page

Become a front-end web developer: -

- Understand HTML, CSS, and BOOTSTRAP.
- Build objects. It's one thing to experiment with UI elements.
- Contract and read.
- Front-end creation entails more than just creating a website application.
- Version control will save your life and ensure that all of your files are saved.
- Act as a go-between.

4.1.2 Login

This is a login page of our site which contains all the essential format of a login page. A login uses a user and admin to visit this site.

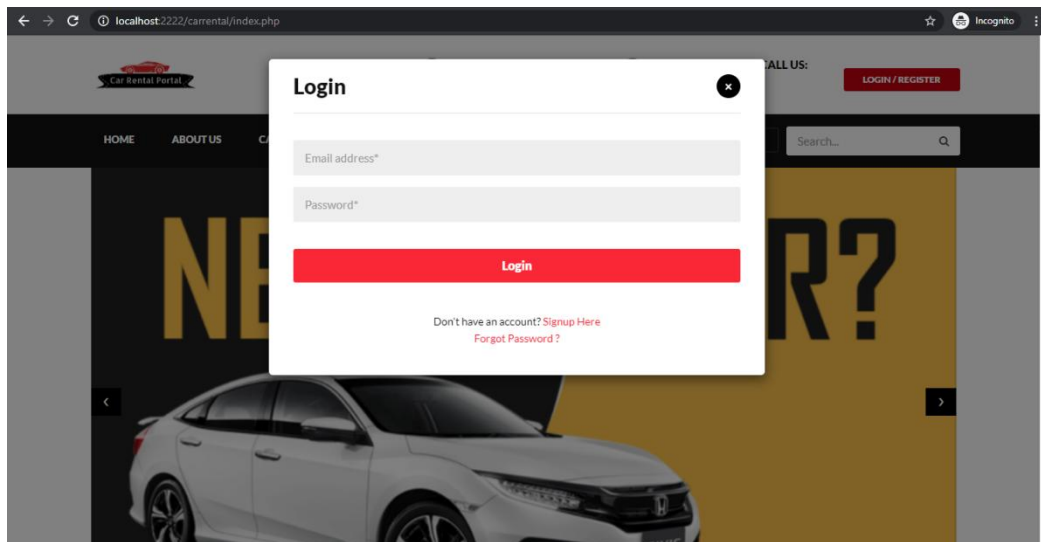


Figure 4.1.2: Login page

4.1.3 CSS

CSS is a cascading style sheet. Used to describe the presentation of HTML document documentation. For example, XHTML, SVG and more. CSS describes how to present this element on the page, CSS is also one of the open web open languages and is measured in the web browser. [2]

4.1.4 BOOTSTRAP

Bootstrap is a free and open-source web development platform. For shapes, buttons, navigation, and other interface elements, it uses an HTML and CSS style template. JavaScript Extensions is another name for them. Unlike several previous web frameworks, this issue is limited to interface creation. [2]

4.1.5 JAVASCRIPT

The ECMAScript specification defines JavaScript, which is a high-level explanatory programming language. It is a programming language that is divided into four categories: complex, badly typed, prototype-based, and paradigm-based. A well-organized JavaScript program is described by the JavaScript syntax, which is a collection of rules. [2]

4.1.6 JQUERY

jQuery is a JavaScript library that aims to make the transition to the HTML DOM tree, as well as manipulations like help, CSS and Ajax animations, and more, as simple as possible. This is a free open-source project that adheres to the MIT license. According to web analytics, this is by far the most common JavaScript library. [3]

- jQuery is a small, lightweight JavaScript library.
- jQuery is time independent.
- The jQuery symbol "compose less, achieve more"

The following is a jQuery criticism:

- CSS resistor
- HTML resistor
- DOM resistor
- DOM component assortment
- HTML intent techniques
- Plugins for extensibility
- AJAX
- HTML case approaches
- JSON parsing

4.2 Back-end Design

The back end is where the software's logic is found. This is the most crucial aspect of the program. It is essential for the entire system to function. The issue is with the server's backend. Server-language site, automated environment, database management, authentication, validation, authorization, data analysis, data validation, data backup, and a firewall are all examples of multipliers that multiply languages on a block chain. We have developed "a rental management system" using raw PHP as well as a framework that provides the rationale and reception page here for MySQL database for data storage and flow management work. [3]

4.2.1 Admin Dashboard

Car Rental Portal | Admin Panel

Confirmed Bookings

BOOKINGS INFO

Show 10 entries Search:

#	Name	Booking No.	Vehicle	From Date	To Date	Status	Posting date	Action
1	Shawon Rahman	123456789	Maruti , Maruti Suzuki Wagon R	2020-07-07	2020-07-09	Confirmed	2020-07-07 20:03:09	View
2	Shawon Rahman	987456321	Nissan , Nissan Kicks	2020-07-19	2020-07-24	Confirmed	2020-07-09 23:49:21	View
3	Nahid	460100285	Audi , Audi Q8	2021-04-10	2021-04-13	Confirmed	2021-04-09 21:35:41	View
4	Shawon Rahman	804338775	Voxy , Toyota Noha	2021-04-13	2021-04-13	Confirmed	2021-04-12 09:32:05	View
5	Sajid hasan	315987395	BMW , BMW 5 Series	2021-04-25	2021-04-27	Confirmed	2021-04-25 22:19:13	View

Showing 1 to 5 of 5 entries

PREVIOUS 1 NEXT

Car Rental Portal | Admin Panel

Dashboard

3
REG USERS
[FULL DETAIL](#)

10
LISTED VEHICLES
[FULL DETAIL](#)

5
CONFIRM BOOKINGS
[FULL DETAIL](#)

8
LISTED BRANDS
[FULL DETAIL](#)

2
SUBSCRIBERS
[FULL DETAIL](#)

1
QUERIES
[FULL DETAIL](#)

2
TESTIMONIALS
[FULL DETAIL](#)

Figure 4.2.1: admin dashboard

Here are the some become a back end web developer:

- Learn PHP and become good at it.
- XAMPP You must have better knowledge on the database.

4.2.2 PHP

PHP is a programming language that was created with the intention of being used for web creation in general. PHP is an abbreviation for "PHP: Hypertext Preprocessor": PHP extensible advantage, open-source scripting language. Implemented with framework capabilities, the records system can do, open, read, form as well as close them. Can handle structures, i.e., collect information PHP can encode information as well as allow additional information in a document. [3]

4.2.3 XAMPP

XAMPP is a pyramid web server that is free and open-source. An Apache HTTP server, a Maria DB database, and scripts for PHP programming languages are all included. XAMPP is a simple Apache distribution for Linux, Windows, Mac OS X, and other operating systems. [4]

4.3 Interaction Design and UX

This section is designed for this web application with a download box and a stylus. These two help us to be a better eye design user and responsive to many templates. With product enhancement, convenience, accessibility, and availability of product interaction, this method improves customer satisfaction. Designers concentrate on designing visually appealing web interfaces as well as rational negative behavior and planned actions. To build user-friendly environments, effective interactive design employs the principles of good technical communication. [5]

4.4 Implementation Requirements

- Implementing PHP requires a Web development programming language.
- MySQL is the preferred database.
- The hosting platform should be a non-Windows based server.
- Schedule for the Learning Copy Service (source code and database).
- Access to database storage failed.
- Before the server-side authentication, form validation is required.
- A check is required to check.
- Unauthorized installation must be carried out with maximum limitation.
- jQuery needs to be perfect for a custom design.
- Bootstrap design is also required at the front end.
- Visually come different fonts and symbols of Google fonts and impressive fonts.

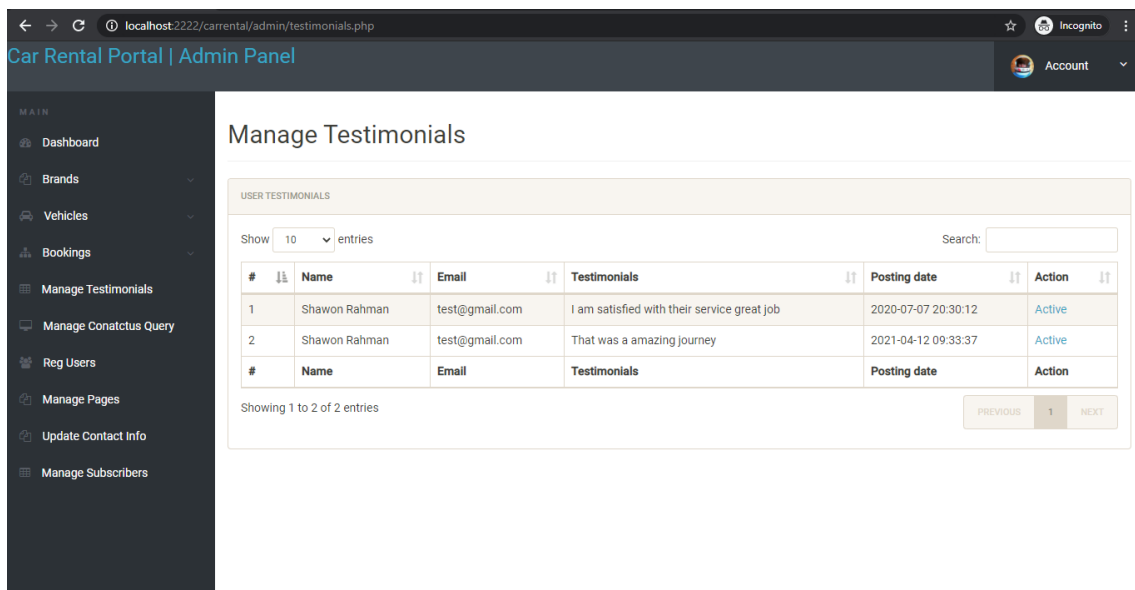
CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

Due to the use of Raw PHP and MySQL, we have created a migration table that describes its objects and their content. Because MySQL, the model, controls the data space. So no direct SQL query is required to perform the actions. We have used my PHP DBMS administrator. There are many tables in our DBMS

Users Registration Table: Information such as full name, email, password is saved in this table.

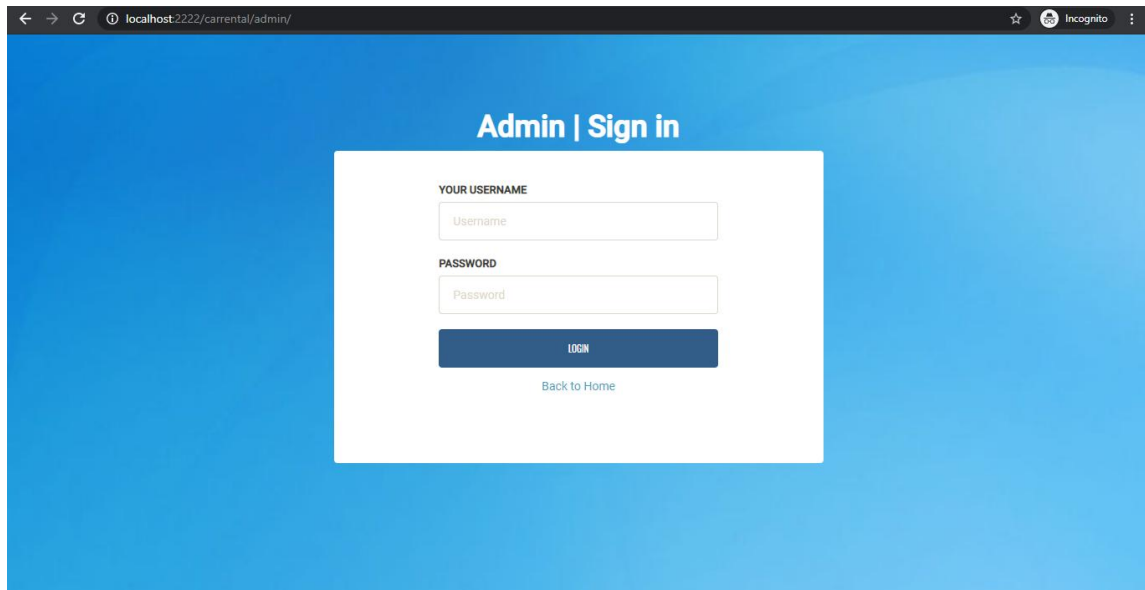


The screenshot shows a web browser at localhost:2222/carrental/admin/testimonials.php. The page title is 'Car Rental Portal | Admin Panel'. A sidebar on the left lists navigation options: Dashboard, Brands, Vehicles, Bookings, Manage Testimonials (selected), Manage Contactus Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The main content area is titled 'Manage Testimonials' and contains a section 'USER TESTIMONIALS'. It features a 'Show 10 entries' dropdown and a search bar. Below is a table with 7 columns: #, Name, Email, Testimonials, Posting date, and Action. The table contains two entries for 'Shawon Rahman' with email 'test@gmail.com'. The first entry has a posting date of '2020-07-07 20:30:12' and the second has '2021-04-12 09:33:37'. Both have an 'Active' status in the Action column. At the bottom, it says 'Showing 1 to 2 of 2 entries' with 'PREVIOUS', '1', and 'NEXT' pagination links.

#	Name	Email	Testimonials	Posting date	Action
1	Shawon Rahman	test@gmail.com	I am satisfied with their service great job	2020-07-07 20:30:12	Active
2	Shawon Rahman	test@gmail.com	That was a amazing journey	2021-04-12 09:33:37	Active

Figure 5.1.1: Database of user registration table

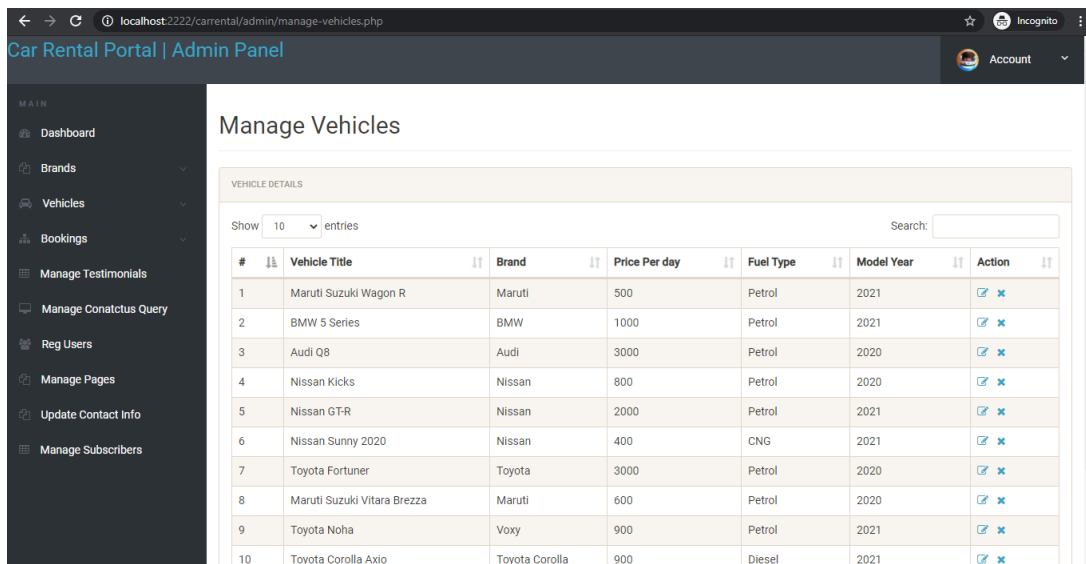
Admin table: Information such as email and password of admin r saved in this table



The screenshot shows a web browser window with the URL `localhost:2222/carrental/admin/`. The page has a blue gradient background and a white central box titled "Admin | Sign in". Inside the box, there are two input fields: "YOUR USERNAME" with a placeholder "Username" and "PASSWORD" with a placeholder "Password". Below these fields is a dark blue "LOGIN" button. At the bottom of the white box is a link that says "Back to Home".

Figure 5.1.2: Database of admin table

Car Table: Information such as car name, brand, price per day and others details



The screenshot shows a web browser window with the URL `localhost:2222/carrental/admin/manage-vehicles.php`. The page is titled "Car Rental Portal | Admin Panel" and "Manage Vehicles". It features a sidebar with navigation links: Dashboard, Brands, Vehicles, Bookings, Manage Testimonials, Manage Contactus Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The main content area displays a table of vehicle details.

#	Vehicle Title	Brand	Price Per day	Fuel Type	Model Year	Action
1	Maruti Suzuki Wagon R	Maruti	500	Petrol	2021	Edit Delete
2	BMW 5 Series	BMW	1000	Petrol	2021	Edit Delete
3	Audi Q8	Audi	3000	Petrol	2020	Edit Delete
4	Nissan Kicks	Nissan	800	Petrol	2020	Edit Delete
5	Nissan GT-R	Nissan	2000	Petrol	2021	Edit Delete
6	Nissan Sunny 2020	Nissan	400	CNG	2021	Edit Delete
7	Toyota Fortuner	Toyota	3000	Petrol	2020	Edit Delete
8	Maruti Suzuki Vitara Brezza	Maruti	600	Petrol	2020	Edit Delete
9	Toyota Noha	Voxy	900	Petrol	2021	Edit Delete
10	Toyota Corolla Axio	Toyota Corolla	900	Diesel	2021	Edit Delete

Figure 5.1.3: Database of car Table

Car rental portal Dashboard: Information of everything on admin portal

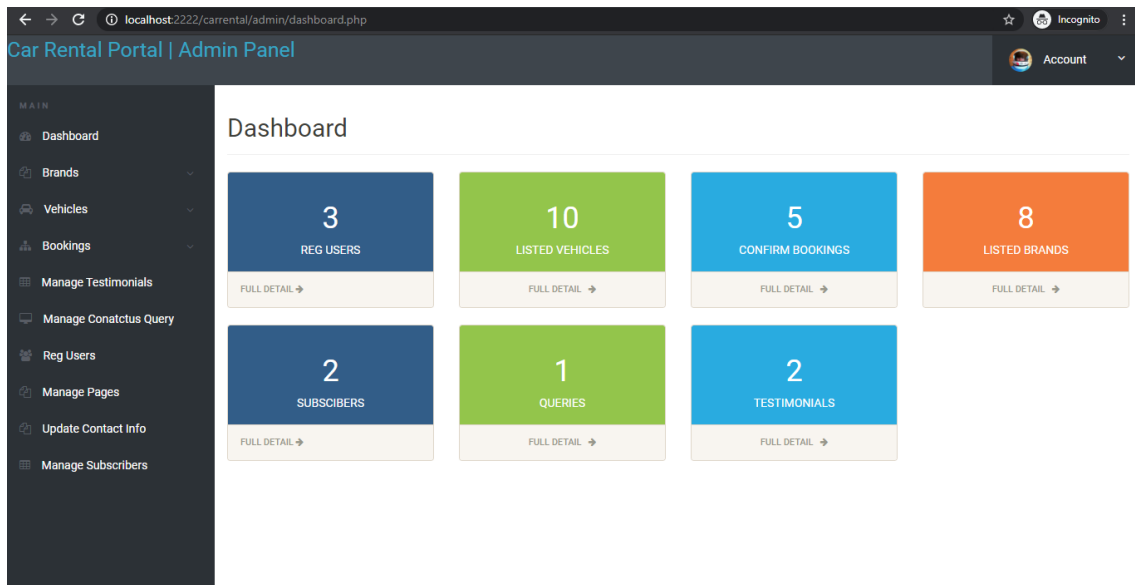


Figure 5.1.4: Database of admin dashboard

Vehicle add table: Contains vehicles added by admin in category.

The screenshot shows the 'Post A Vehicle' form within the 'Car Rental Portal | Admin Panel'. The form is divided into sections for data entry:

- BASIC INFO**: Includes fields for 'Vehicle Title*', 'Select Brand*' (a dropdown menu), 'Vehical Overview*' (a large text area), 'Price Per Day(in USD)*', 'Select Fuel Type*' (a dropdown menu), 'Model Year*', and 'Seating Capacity*'.
- Upload Images**: Contains three file upload fields labeled 'Image 1 *', 'Image 2*', and 'Image 3*', each with a 'Choose File' button and the text 'No file chosen'.

Figure 5.1.5: Database of vehicle add process

5.2 Implementation of Front-end Design

Making a basic user interface design is difficult; we strive to keep it as simple as possible. There are several tools available today, including cell phones, tablets, desktops, laptops, and 4K desktops, among others. We make our site-sensitive so that users can visit and interact with it from a variety of devices with limited screen space. We use HTML, CSS, and Bootstrap to create communication and high-quality work. [6]

- There will be two types of users as an administrator, user.
- Each user must be registered by completing the required fields of knowledge.
- Users log in using their email address and registered password.
- To update a user profile, the user must send an email with a password for security reasons.

5.3 Implementation of Interactions

Here, to create our system (Car rental service), we have introduced an adaptive user interface for better user interaction. In our easy-to-use case, we use icons, text links, and buttons. The design of our web software system is easy to use. Users must sign up or register to book a car.

5.4 Testing Implementation

The process of putting a strategy into motion is known as implementation. The strategy must be completed and the target must be defined before it can be implemented. Any action outlined in the plan is subjected to a performance evaluation.

5.4.1 Table: Testing Implementation

Table 5.4.1: Testing Implementation

Test Case	Input	Expected Outcome	Obtained Outcome	Pass/Fail	Test On
Login	Login email, and password	Login Successful	Login Successful	Pass	25-04-2021
Password	Incorrect password	Incorrect password or empty field	Warning	Pass	25-04-2021
Setting	Edit, update delete	Show and update the page	Show and update all system	Pass	25-04-2021
Booking	Booked	Show Booking successfully	Show and booked successfully	Pass	26-04-2021

5.5 Database Server and Administration Tools

Understand HTML, CSS, and BOOTSTRAP. Build objects. It's one thing to experiment with UI elements. Contract and read Front-end creation entail more than just creating a website application. Version control will save your life and ensure that all of your files are saved. Act as a go-between. It was chosen because it is a reputable and well-known open-source database system that is free to use and is used by a wide range of important business tools.

5.5.1 Web Server

A web server is a piece of hardware that runs software that caters to the needs of World Wide Web clients. One or more websites can usually be found on a web server. Incoming network requests via HTTP and other related protocols are handled by the web server process. [7]

5.5.2 PHP Server

This web server is designed to help you develop applications. It can also be useful for testing purposes or solutions for applications operating under appropriate conditions. It is not intended for a full server. It should not be used on a public network. A PHP server allows a host PC program to execute PHP code and browse PHP websites. [1]

5.5.3 FTP Server

The FTP server uses the document interchange convention to qualify registers for sharing with the simplified PC server. This should be possible thanks to the internet, which enables documents on a web-based business site to be modified from anywhere with access to the internet. The aim of the FTP FileZilla freeware war was to finish the task of building a fully functioning FTP site. The web FTP. The FTP page allowed for site development and testing from a variety of locations. The War RTP FileZilla combines a wide range of security features to ensure that only authorized clients have access to the site's records. A username and secret word are used to complete the validation process. FileZilla is an FTP client that can be found at. [8]

5.6.1 Home page of this system

Fig 5.6.1 shows that this is the home page for our web Car rental system. Users can easily access and select his/her profile.

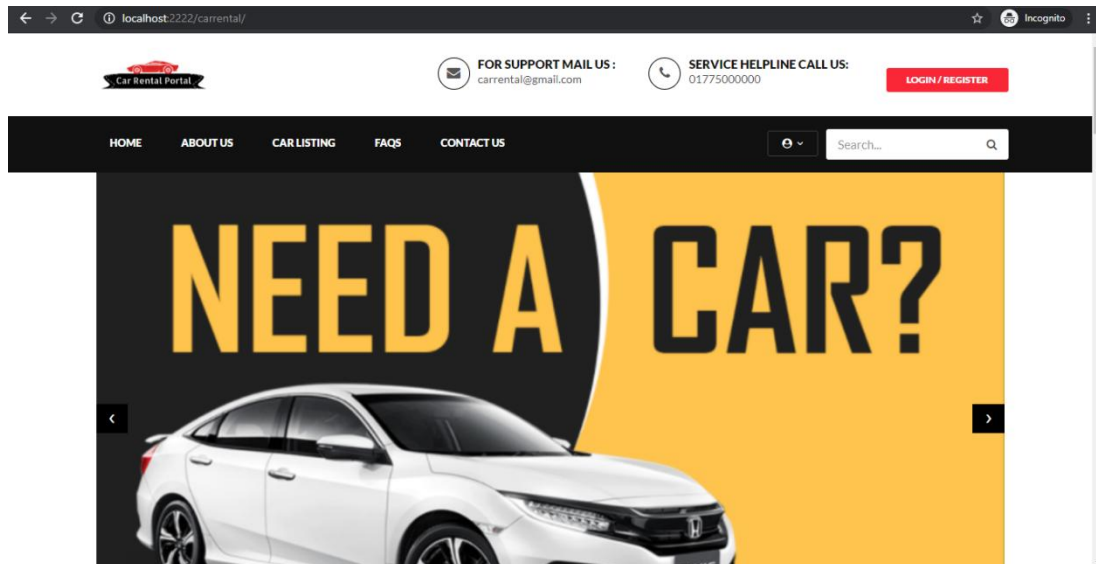


Figure 5.6.1: Home page

5.6.2 Car selection Part

Figure 5.6.2 shows the car selection panel.

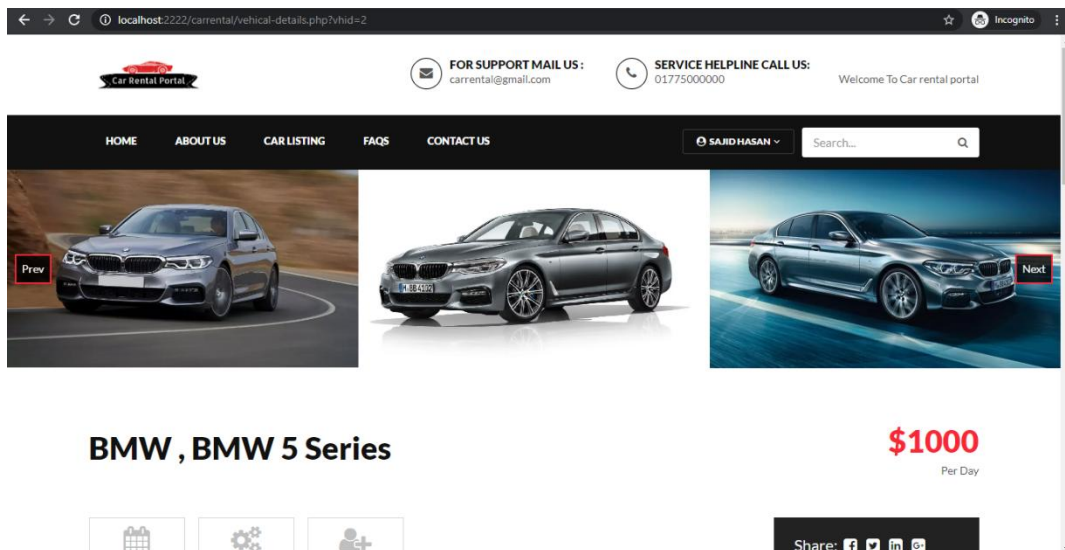


Figure 5.6.2: Album part

5.6.3 Car details part

Figure 5.6.3 Shows the cars available in the category with their specific name and price.

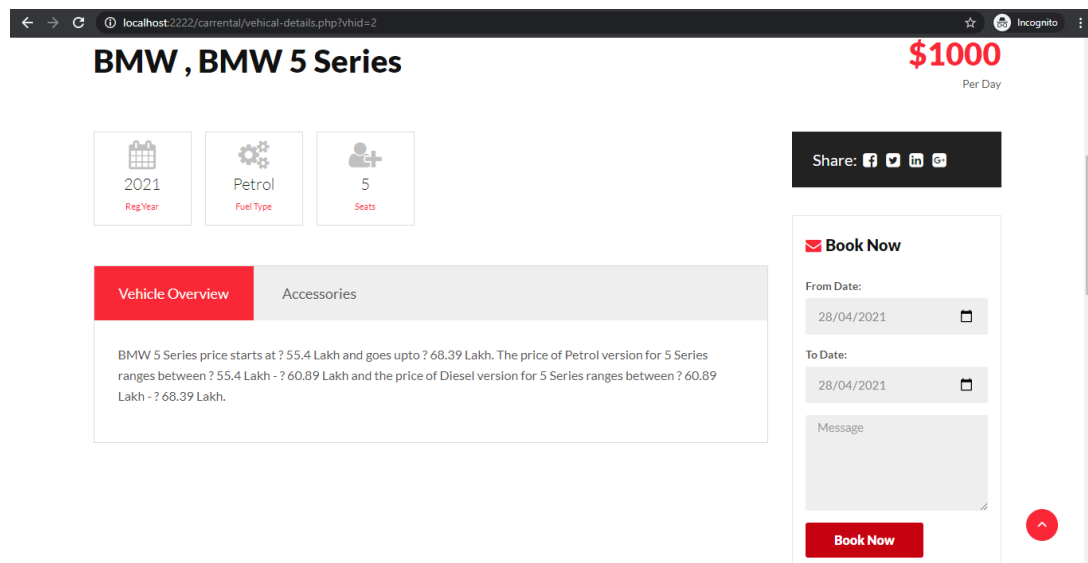


Figure 5.6.3: Car details part

5.6.4 Admin Dashboard

Figure 5.6.4 Shows that admins control panel with all modification.

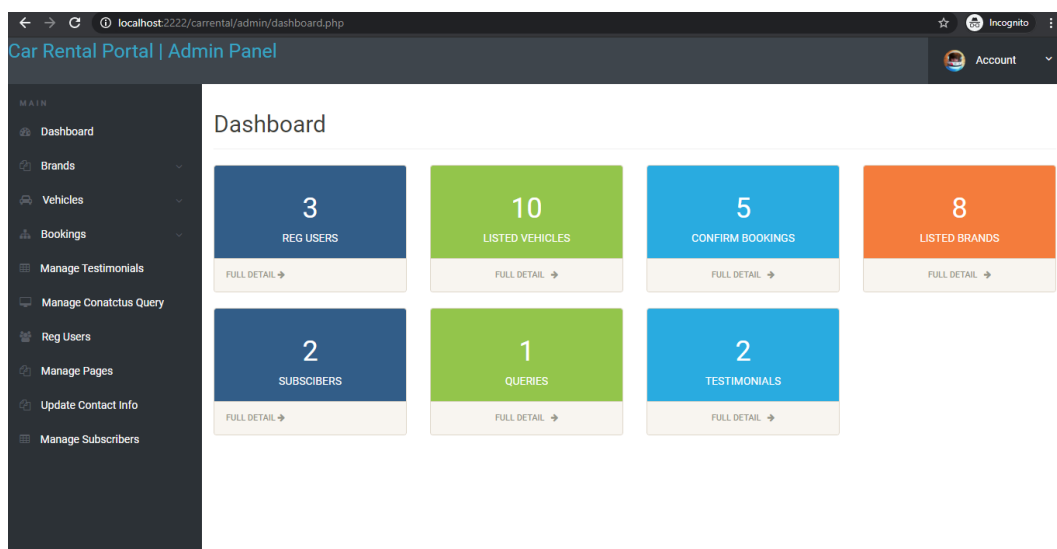


Figure 5.6.4: Admin Part

5.6.5 User login

Figure 5.6.5 shows that how user can login with email and password or can sign up using specific data

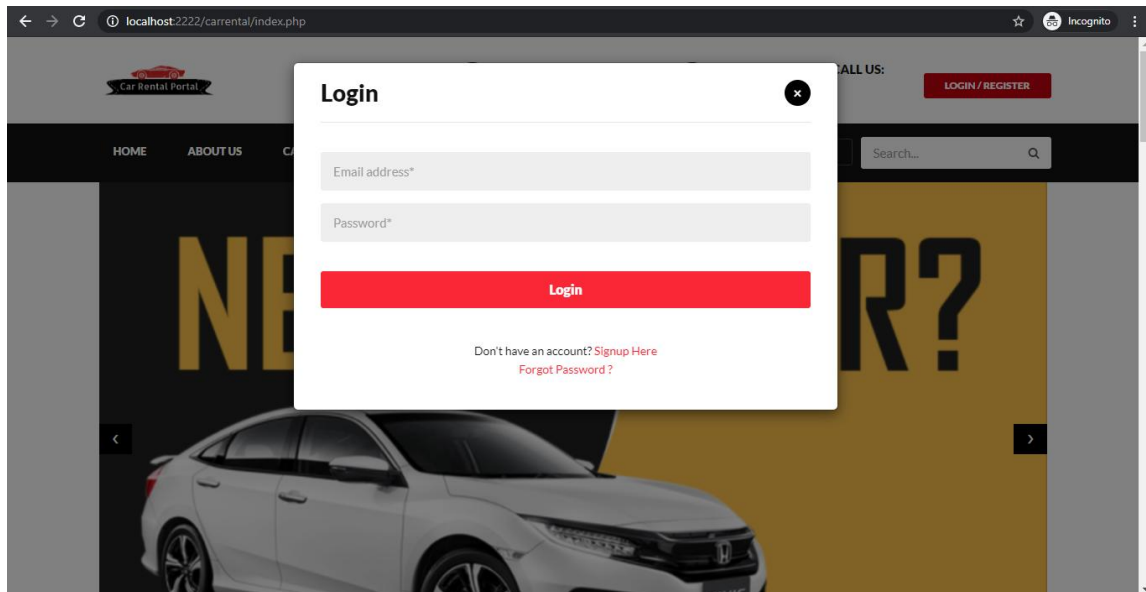


Fig 5.6.5: User Login

5.6.6 User Registration

Figure 5.6.6 shows the users registration page

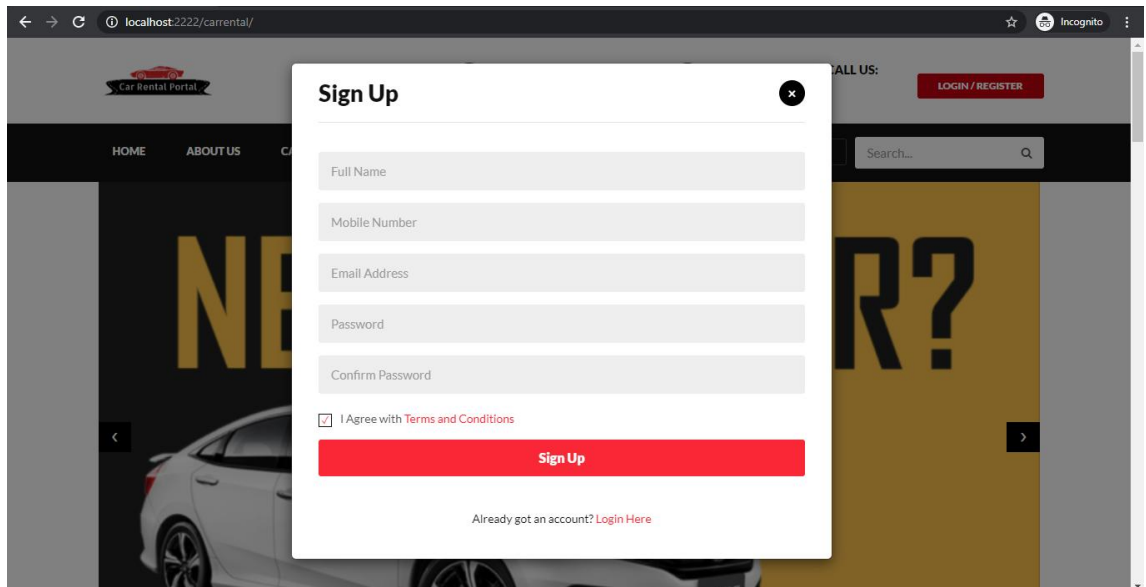


Figure 5.6.6: Registration form for user

5.6.7 Footer

Figure 5.6.7 shows Last part of the system is the footer. Here is the given below screenshot of this part

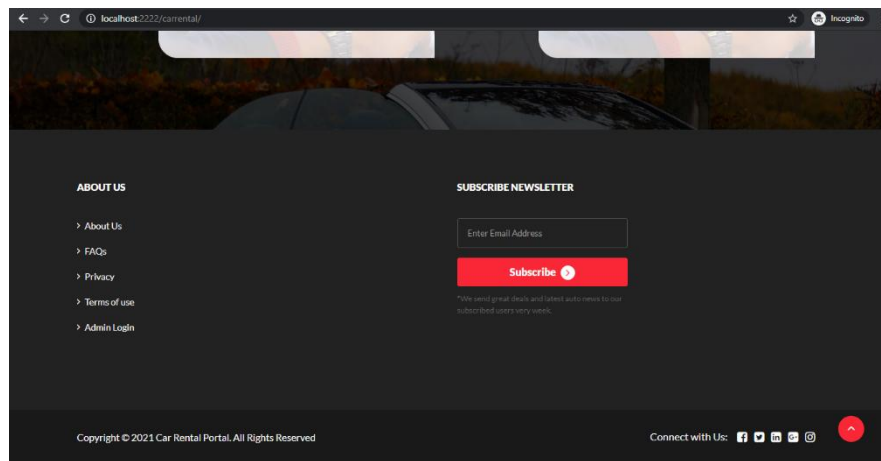


Figure 5.6.7: Footer

5.6.8 Header

Figure 5.6.8 shows part of the system is header. Here is the given below screenshot of this part

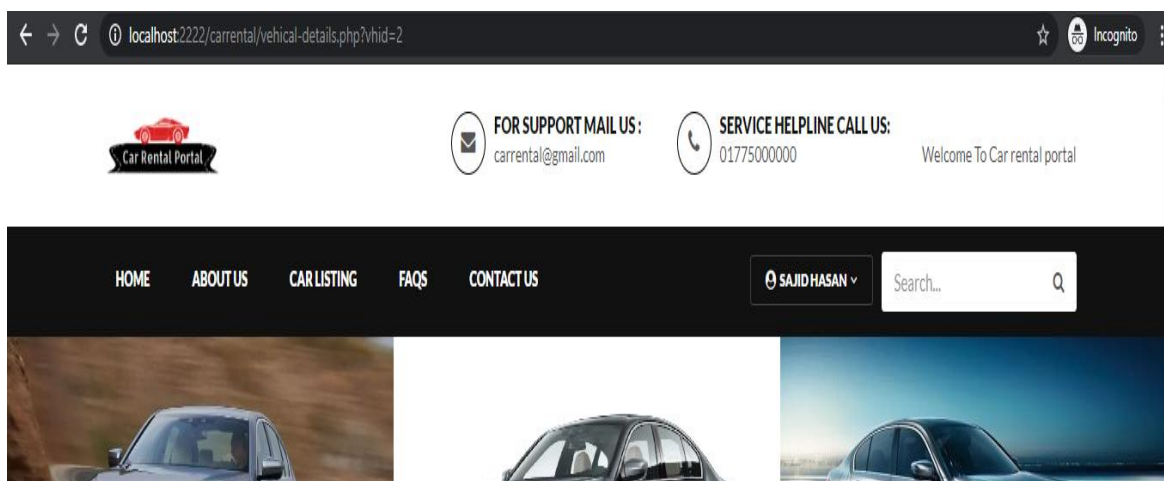


Figure 5.6.8: Header

5.7 Test Results and Reports

This test report is needed in order to obtain formal test results, which allows for a fast and thorough evaluation of test results. It's a paper in which the patch test office data is used to explain the environmental and operating conditions, as well as how the test results compare to the test objectives. The test report is crucial, and you must understand it. The test report is crucial, because you must know whether or not the device is ready. It's a text that documents the results of a research study. We must go through a variety of tests.

These are about kind of trial

- Practical Test
- Reversion Test
- Safety Test
- Presentation Testing
- Scalability Testing
- Usableness test

Here are some benefits of testing.

- Application has to be of the best quality.
- The system is extremely simple to use.
- Smoother application usability.
- Best UI for interaction.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

We talk about our likes and dislikes in this section. Here, we examine the posterior breadth and speculate about what it might have been if it had been anything more.

6.1 Discussion and Conclusion

Finally, we completed our task at an online Car Rental Service. It was in the interest of time to create a Car Rental Portal in our country. The system will establish communication between the user and the cars through the administrator. It will help them find cars in a few simple steps. It saves time. Data can't be lost while downloading. We will offer more updates with new features in the future. It can be further improved thanks to the layout of the network interface. This venture can be used on many informative foundations to handle all applications, and this framework may be more useful. It stops with the majority of customers of these platforms.

6.2 Scope for Further Developments

This technology has a great chance to become more usable in the future. The following sections go through several potential future scopes. The user must be linked to the internet in order to book a car or use the website.

- Build Car rental project Android and iOS apps.
- Make an attempt to set up a live chat system.
- Add a device that accepts a variety of payment methods.
- In the future, we expect to introduce artificial intelligence that will automatically provide feedback.
- Confirm that you can send a single post within a specific time frame.
- We'll put in place a notification system.
- The machine feature will be updated on a daily basis.
- If a new UI is needed for optimal performance, we will implement it.

APPENDIX

Appendices A

Projection Reflection: We began our journey to create a car rental service for the customer in the spring semester of 2020. We were able to achieve our goal by following the project for progress in order to incorporate and track our invention. We can chat with ease from anywhere, and it will save us time. We followed the model to incorporate and track our method, and after a lot of hard work and a lot of time, we were finally able to achieve my target.

The project “Car rental portal” will be very helpful for users and easy to use. The user will have more facilities to rent a car as they want. Users can find cars from old to new generation modes here. In Bangladesh there are few websites that contain collections of these types of cars. We try to create a website that contains all of them.

So, we believe that our “Car rental portal” will be a confident and active and cooperative Thing for all kinds of people in our nation. And we will be continuously upgrading our system.

Appendices B

Combination and Acronyms

HTML: Hypertext Markup Language.

PC: Personal Computer.

CSS: Cascading Style Sheets.

PHP: Hypertext Processor.

Framework: CodeIgniter PHP

VI: Visual Instrument.

DOM: Document Object Model.

AJAX: Asynchronous JavaScript and XML.

JSON: JavaScript Object Notation.

XAMPP: Cross-Platform (X), Apache (A), MySQL (M), PHP (P) and Perl (P).

UX: User Experience.

SDLC: The Systems Development Life Cycle.

RTP: Real-time Transport Protocol.

FTP: File Transfer Protocol.

DBMS: Database Management Protocol.

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Car Rental Portal

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