

CSE 482.2
(Internet & Web Technology Project)
Online car Rental Website



Group No. 4

Project Report Prepared By:

Md. Sakib bin Swroar	1612367042
Mubassir Jahan	1811058042

Submitted to: Md. Naqib Imtiaz Hussain (nqh)

Date of Submission: 19.04.2022

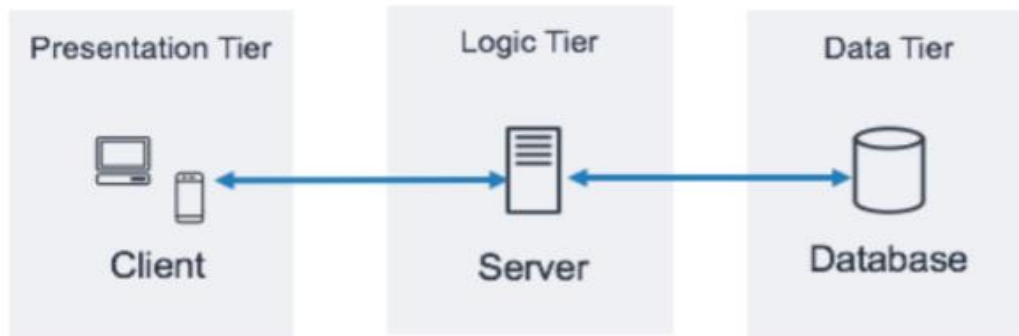
Introduction

This is the report of the Project Online car rental Website. Here customers will be able to reserve their vehicles from anywhere in the world due to the Car Rental System. Consumers provide information to this application by filling in their personal information. When a consumer creates an account on the website, he or she can reserve a car. The proposed system is an online system that is fully integrated. It effectively and efficiently automates manual procedures. Customers are aided by this automated method, which allows them to fill in the specifics according to their needs. It contains information on the sort of car they want to hire as well as the specific models. The goal of this system is to create a website where customers can book their chosen automobiles and request services from anywhere in the world.

Motivation

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, 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, for these reasons, Car renting is very helpful. Charges will be calculated with the help of mileage tracking devices. Many people became interested in the Car rental business and hence got involved. Car renting became more popular as years passed by. Today Car renting services are found all over the world, especially in the developed and developing countries. To make this service more popular and accessible to the public it has been transformed into a web base system and connected to the internet where everyone can be able to have access to it. We have researched and kept other car renting websites in mind and hopefully ours will be able to compete against other websites. We assume that, In Bangladesh, this service will be Very popular as people in Bangladesh face traffic problems on a daily basis. Our initiative will help our country to be recognized as Digital Bangladesh.

3 tier- Architecture Diagram:



Front-End

HTML,CSS,Bootstrap

Back-End

PHP,MySQL

Figure A

For the Front-end side: HTML, CSS & Bootstrap was used. Also, some JavaScript were used in certain cases. **[Figure A]**

For the Back-End side: Mainly used PHP, MySQL to control, connect and keep running the system in background. **[Figure A]**

Use Case Diagram:

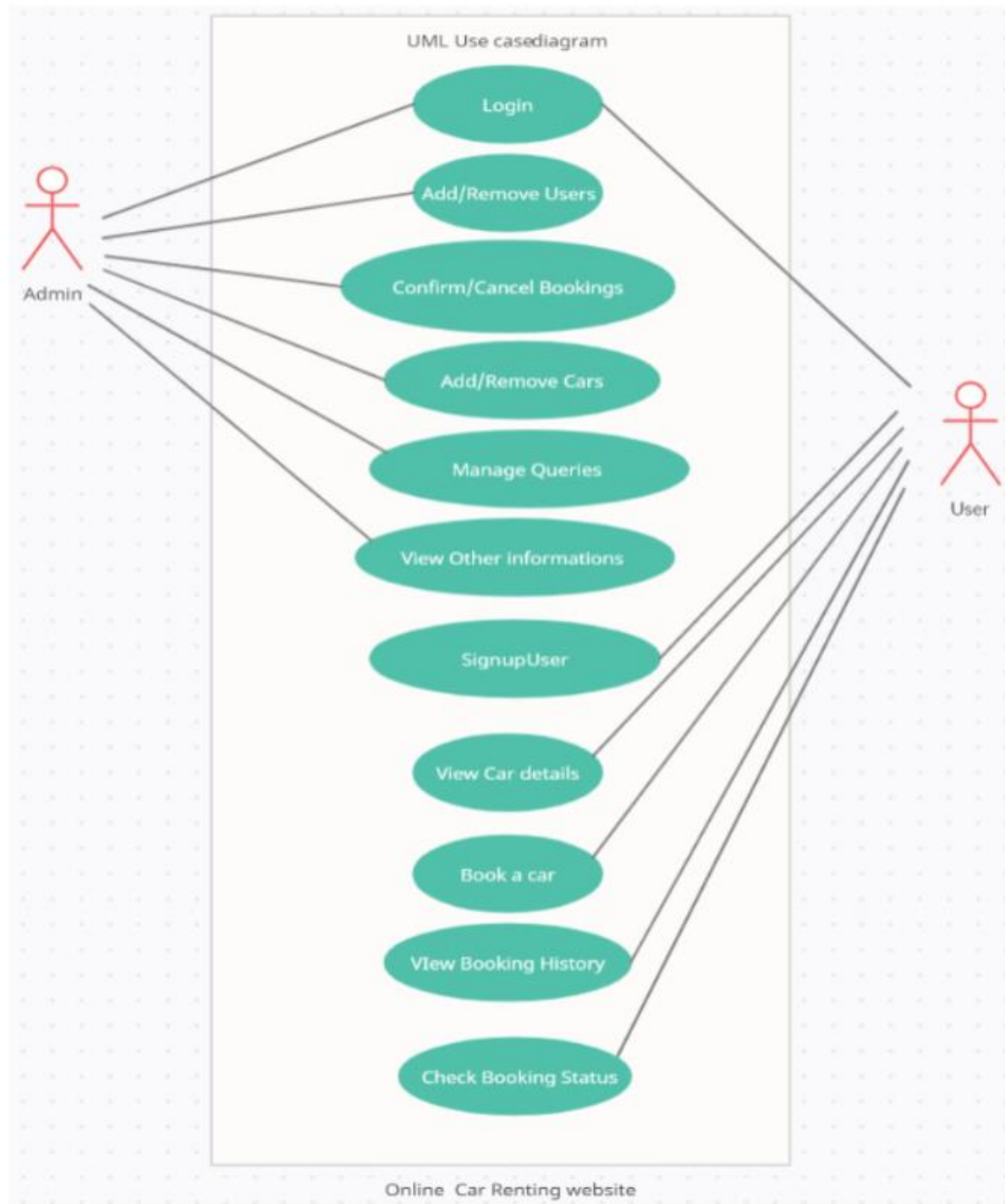


Figure: C

UML use case diagram was drawn to highlight the users and their roles. **[Figure C]**

In this project, in terms of 2 different diagram was used to identifying, analyzing and planning for the project.

After completing these preparations, the development work was started from the next day after the meeting.

Bitbucket workflow:


(Last Screenshot Taken on 19.04.22 10:46 pm)

Mubassir Jahan / CSE482_Project / CSE482














Commits


Search commits














Q

 All branches


▼

Author	Commit	Message	Date
 Mubassir Jahan	3475d72	Fix	3 days ago
 sakibsaroar	cd96f19	fix	5 days ago
 Mubassir Jahan	8cb07fa	Minor issues Fix	5 days ago
 Mubassir Jahan	0249163	Customer Feedback Added, Admin Dashboard updat...	6 days ago
 Mubassir Jahan	bf30b5d	Fix	7 days ago
 Mubassir Jahan	4349b88	Manage Subscriber Newsletter added	7 days ago
 Mubassir Jahan	9881dcc	Change image bug fix	2022-04-10
 Mubassir Jahan	44fa448	Admin session , Cookies Fix	2022-04-10
 Mubassir Jahan	806a5b6	Update image Function Added	2022-04-10
 sakibsaroar	02605ad	css and search	2022-04-09
 sakibsaroar	f1570c9	database	2022-04-06
 sakibsaroar	0895f62	database	2022-04-06
 sakibsaroar	b50677b	bug fixed	2022-04-06



	sakibsaroar	b59677b	bug fixed	2022-04-06
	sakibsaroar	fe4b787	MERGED Merge branch 'master' of https://bitbucket.o...	2022-04-06
	sakibsaroar	1ebb1ae	fixing bugs	2022-04-06
	Mubassir Jahan	6746b1a	Post Vehicle Added, Change image option added	2022-04-02
	sakibsaroar	ef1d0c0	review css change	2022-04-01
	sakibsaroar	3f0b5dd	database and review system updated	2022-04-01
	Mubassir Jahan	29dd07d	user list updated	2022-03-29
	sakibsaroar	b0204f1	database and review system updated	2022-03-28
	Mubassir Jahan	88a5079	Edit vehicle, Manage Vehicle added	2022-03-27
	Mubassir Jahan	b3fa320	Add new Brands, Edit/Update Current Brands, Bookin...	2022-03-27
	sakibsaroar	1d722bd	review added	2022-03-26
	Mubassir Jahan	4498c0f	Dashboard User Management Added, Brands View, V...	2022-03-18
	sakibsaroar	7400d66	MERGED Merge branch 'master' of https://bitbucket.o...	2022-03-18

Prev Next



Author	Commit	Message	Date
	sakibsaroar	325a589	price adjusted
	sakibsarwar	bcbf302	fix
	sakibsaroar	298cf8e	readme changed
	Mubassir Jahan	395eefc	Deleted unnecessary Files
	Mubassir Jahan	f21f7d6	Fix
	sakibsaroar	a23c35d	header updated sign in
	sakibsaroar	e9c7bd7	banner update
	sakibsaroar	1ec1e10	folder renamed
	Mubassir Jahan	247f253	test
	Mubassir Jahan	2510452	Sample Files Added
	Mubassir Jahan	18d9041	Sample Files Added
	Mubassir Jahan	2cc0348	Initial commit

Prev Next

Project Start date: 12.02.22

Project End Date: 16.04.22

Total Time Duration: 2 month 4 days

Results:

When the program was executed, this output was shown up as a FrontPage **[Figure 1]**:

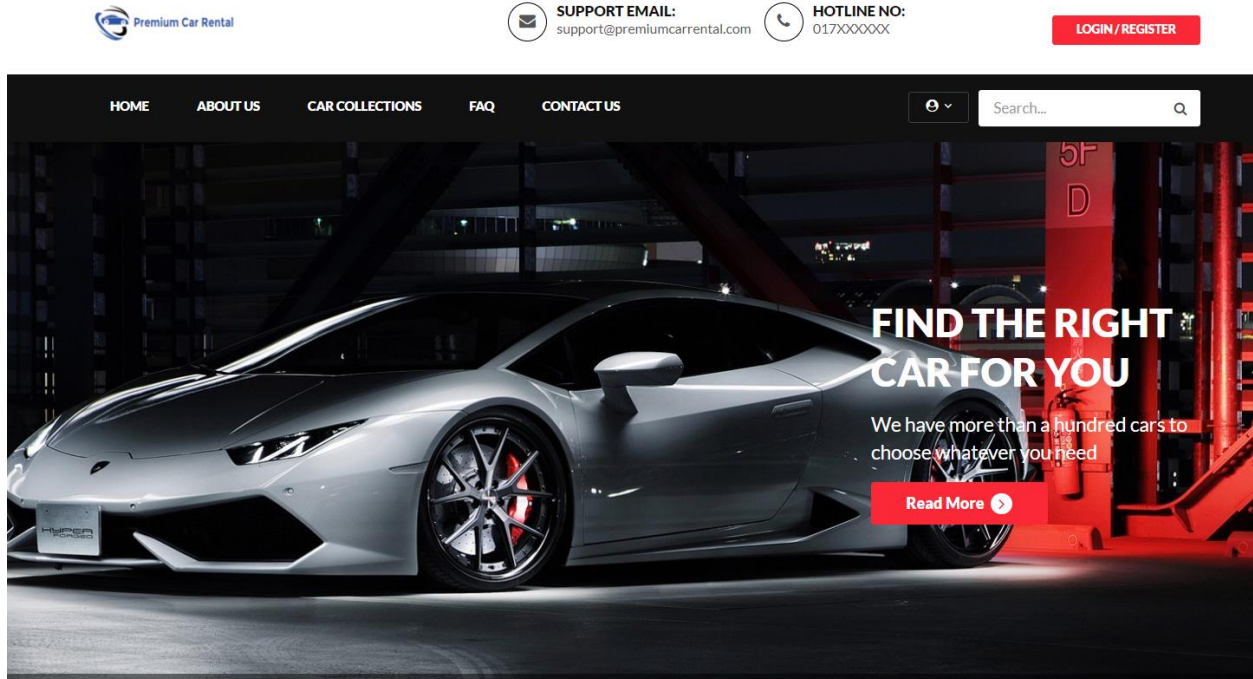


Figure 1

Search Functionality: If a car model was searched **[Figure 2]** inside the search bar then the results were displayed (including the price and other details) as below.

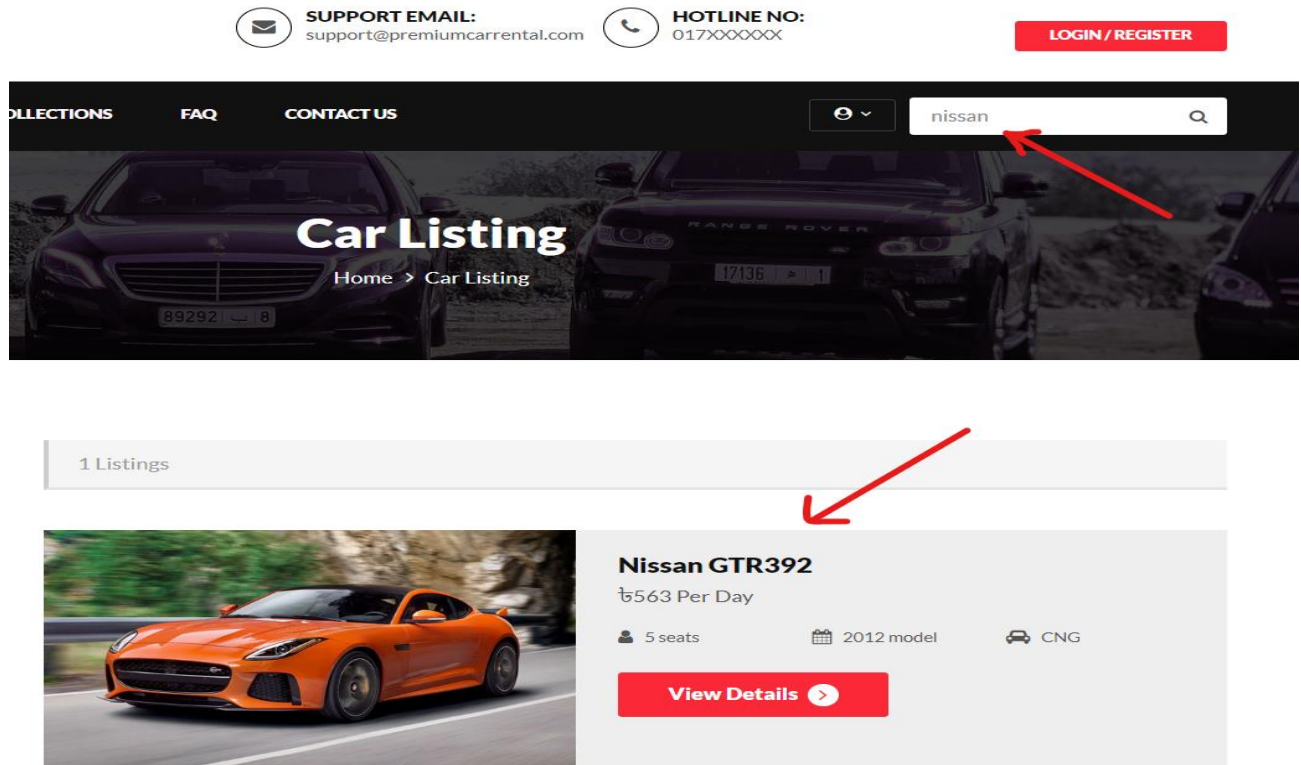


Figure 2

Arrow marked as ->>>>>[Search Query, Price]

Vehicle Details: By clicking on the Title of the car the page redirected to the vehicle details page where specifications and other information e.g reviews showed up there. [Figure 3 & 4].

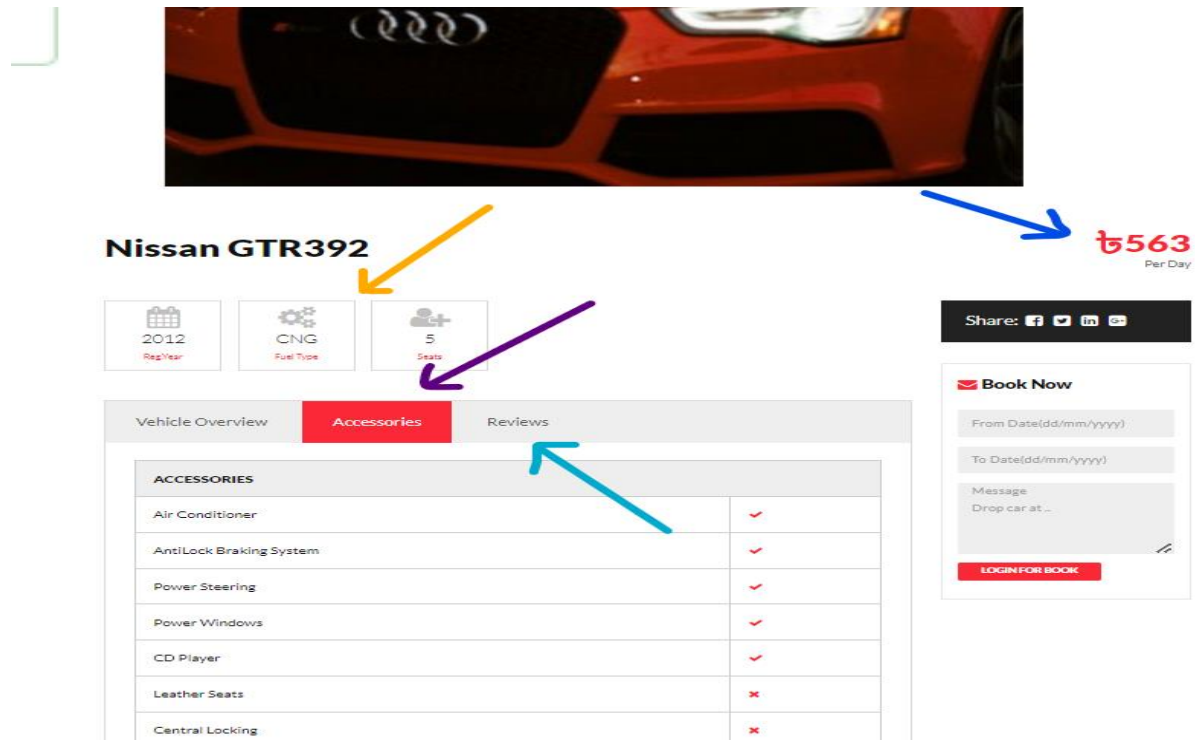


Figure 3

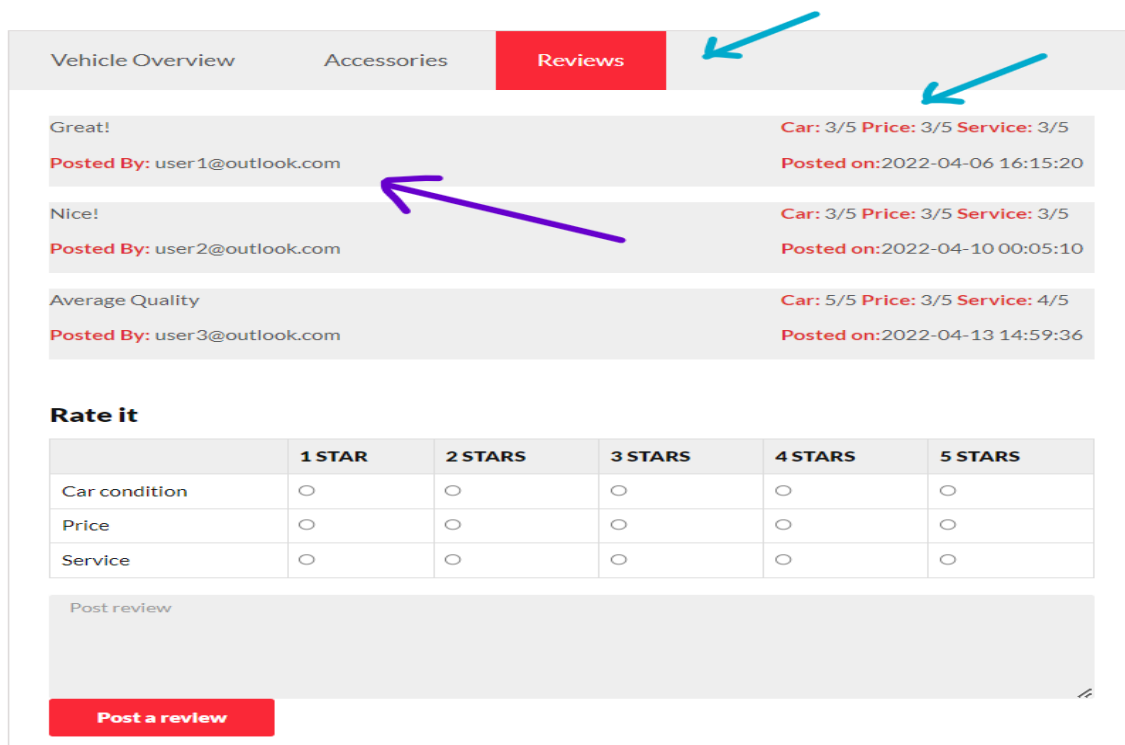


Figure 4

Arrow marked as ->>>>>[Price Per Day, Accessories Details, Reviews]

Booking a car : By clicking Login for book by (filling up the necessary info) it showed up a pop up login prompt **[Figure 5 & Figure 6]**

Nissan GTR392

₹563
Per Day


2012
Reg:Year


CNG
Fuel Type


5
Seats

Share:    

Vehicle Overview

Accessories

Reviews

ACCESSORIES

Air Conditioner

✓

AntiLock Braking System

✓

Power Steering

✓

Book Now

19/04/22

20/04/22

Deliver this car as soon as possible

LOGIN FOR BOOK

Arrow marked as ->>>>>[From date, To date, Messages, Booking Button]

Figure 5

Login

Login

Don't have an account? [Signup Here](#)
[Forgot Password ?](#)

Book Now

19/04/22

20/04/22

Deliver this car as soon as possible

LOGIN FOR BOOK

Figure 6

User Authentication: By clicking on the Login button [in Figure 6]. The site opens a pop up window for the authentication[**Figure 6**] which asked the user to create a user account for final checkout or sign in to an existing user account. After successful login the site displays a welcome screen message & User name on the top right corner of the site [**Figure 7**]

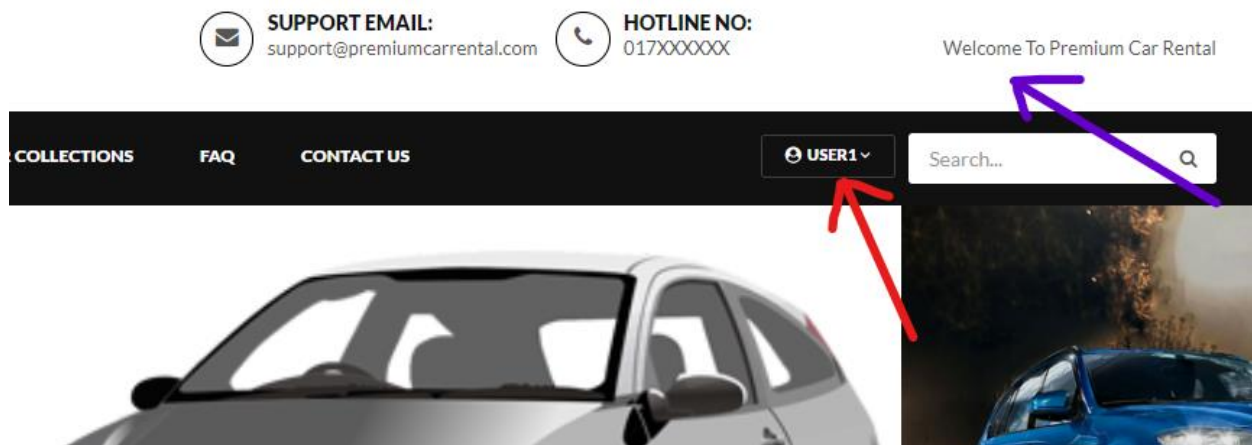


Figure 7

Arrow marked as ->>>>[Welcome Message, Username]

Placing order: By clicking book now it showed up a pop up confirmation [**Figure 8 & Figure 9**]

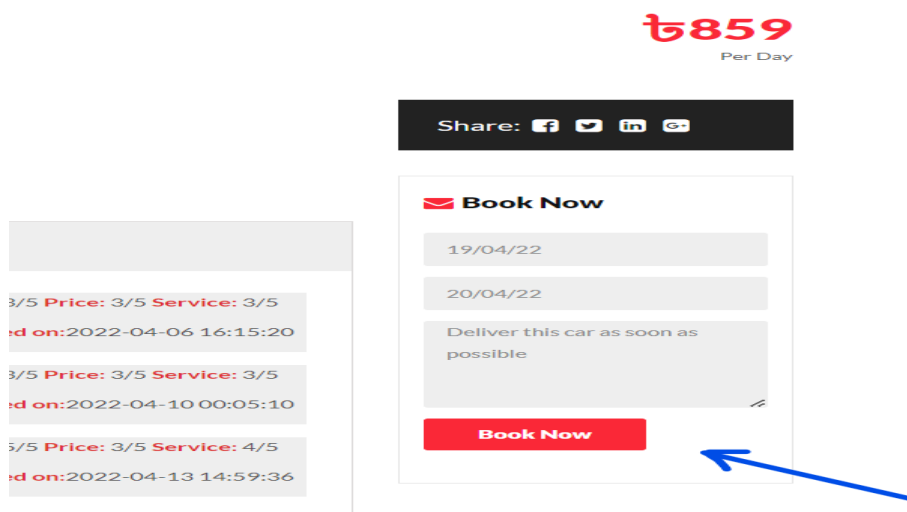


Figure 8



Figure 9

Booking Lists: Upon going to the profile dashboard it displays all the booking orders [Figure 10 & 11]

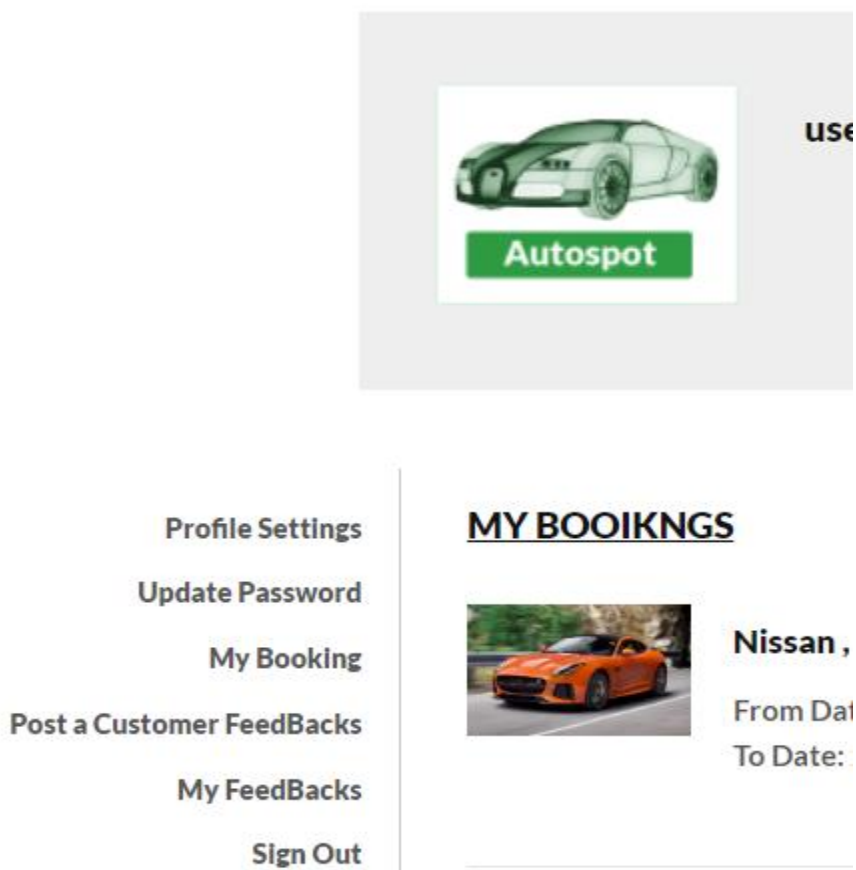


Figure 10



BMW , Test Demoy

From Date: 19/04/22

To Date: 20/04/22

Not Confirmed Yet

Message: Deliver this car as soon as possible

Figure 11

Admin Panel: When Admin logged into the system the dashboard page was appeared as below [Figure 12]

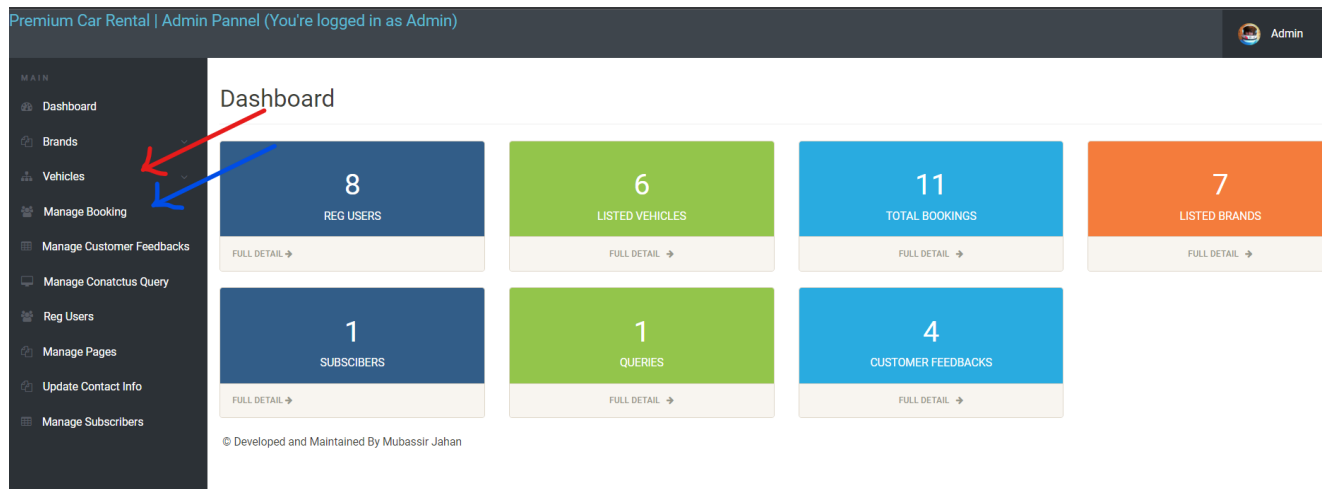


Figure 12

Arrow marked as ->>>>>[Manage Bookings, Vehicle Lists]

10	user1	BMW , Test Demoy	19/04/22	20/04/22	Deliver this car as soon as possible	Not Confirmed yet	2022-04-19 15:22:45	Confirm / Cancel
#	Name	Vehicle	From Date	To Date	Message	Status	Posting date	Action

Showing 1 to 10 of 11 entries

PREVIOUS12NEXT

Arrow marked as ->>>>>[Button Confirm & Cancel]

Order Tracking from User End: After confirmation given from the admin, When a user was logged into the system and clicked My booking he/she will see the updated order status [Figure 13]



Message: Deliver this car as soon as possible

Arrow marked as ->>>>[*order status*]

This is how the entire operation was performed successfully.

Functional Features (Current status of the project):

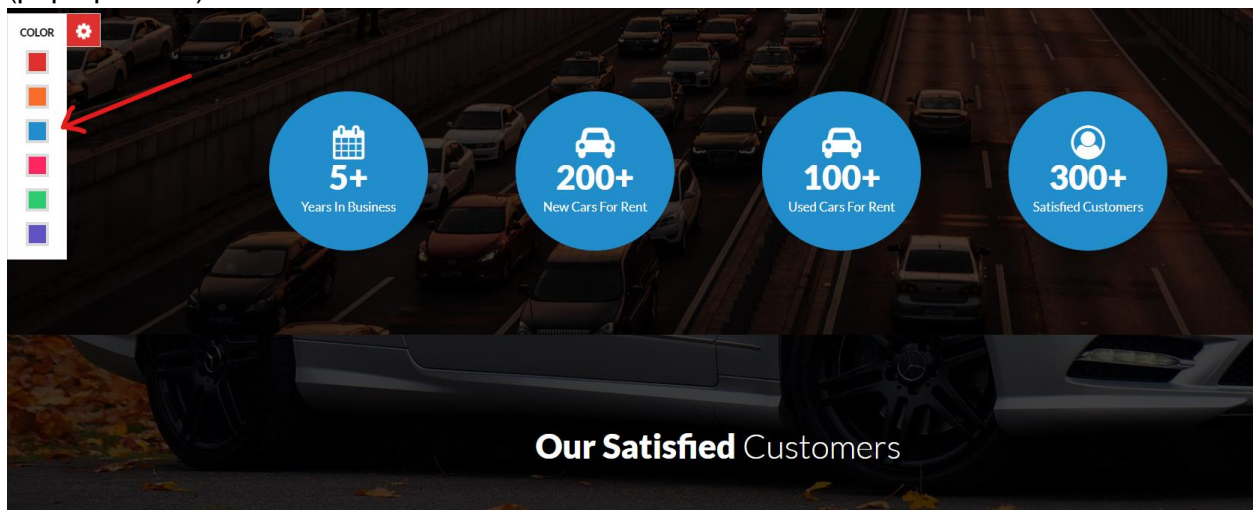
Front-End: For Front-End part we used HTML, CSS, Bootstrap. And the following Pages are functional as given below:

- 1.Main Page
- 2.Car Lists page
- 3.Search Engine
- 4.Authentication
- 5.Contact us (Query)
6. FAQ
7. Customer Reviews

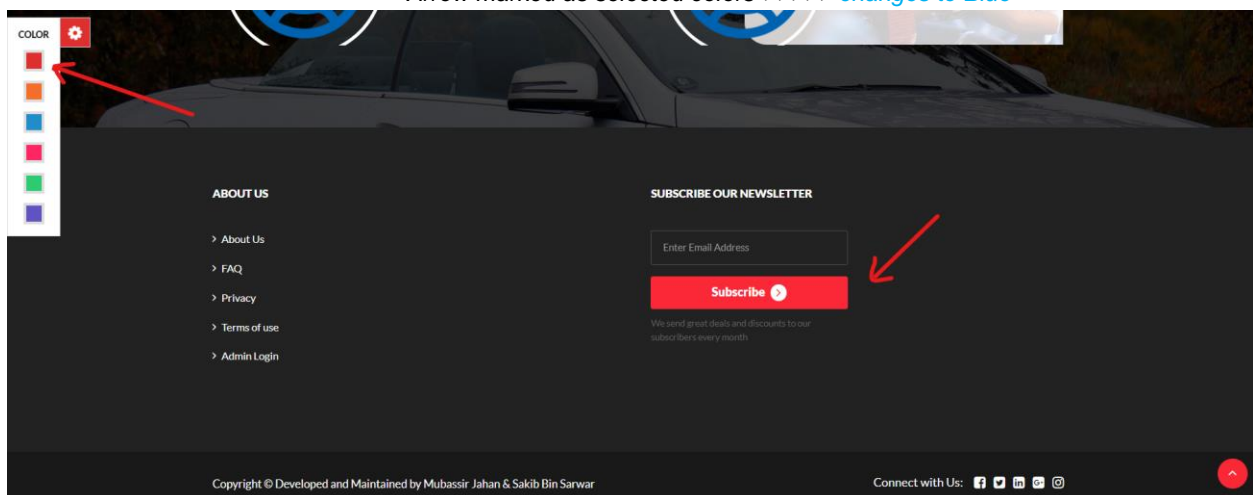
Back-End: For the Back-End part we used php MySQL. And the following Functions are fully up and running.

1. Account Creating.
2. Authentication & Change Password.
3. Forgot password
4. Profile Management
5. Admin Dashboard:
 - Post a vehicle
 - Add/Remove vehicles
 - Manage Query
 - Manage Booking Approve/Denied
 - Manage Users

Additional Plus Feature Added: In this site we've added html color picker (snippets) which can change some parts of the webpage colors by one click from the bottom left navigation (pop up menu)



Arrow marked as selected colors->>>>> changes to Blue



Arrow marked as selected colors ->>>>> changes to Red

Website Performance: Web page is now fully functional for PC, Tab view and Phone view. Required optimizations are already done as much as needed.

Hosting: According to the project proposal plan the site was supposed to host the on a free hosting server but after various analysis and testing finally we've found out some major drawbacks on free hosting sites. Which is why we've decided to host the site on our own managed private server and domain.

Conclusion: We've learned a lot of things while doing research for this project. While developing we've faced some errors which helped us to find out the possible solution and getting used to new methods and tools.

Strengths and weaknesses of this project: There is only one major weakness of this project and that is this website has only 2 users. One is an admin and the other is a customer. Where admin has all controls and customer has only the ability to request for rent a car. Another minor flaw is the car owner login system. We've tried to build this part but somehow weren't able to fix this issue due to time constraints.

Possible applications of study (how it can be used): This website can be used for small car owners who want to rent their cars online with a third-party company. In this case, they need to pay some any extra money to the site owner to rent their cars.

Recommendations:

What would we do differently: In this project, our plan was to build total 3 users:

- 1.Admin
- 2.Car owner User
3. Normal User

Admin user was supposed to control the entire system. Where the car owner user was supposed to log in, add a vehicle to rent this platform. And lastly a normal user role was about only book a car for renting.

Changes we recommended: To perform a better online car renting system we would recommend adding a new user as a car owner role who can register himself as a vehicle owner, post his car details and directly connect with customers by using a live chat.

References:

1. <https://www.apachefriends.org> xampp,phpmyadmin, mysql
2. <https://getbootstrap.com/>
3. <https://www.php.net/>
4. <https://jquery.com/>

