



Car Sharing Website

Course Name: Internet and Web Technology

Course Code: CSE482

Section: 2

Group: 1

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Introduction

This project aims to create a simple car-sharing solution for all. Traveling plays a vital role in every human's life; however, Dhaka now has some of the worst traffic congestion in the world, the traveling part of life takes up a lot of time and is very stressful. Despite buses, rickshaws, CNGs, people still struggle with their traveling procedures. This website will allow users around Dhaka to share car journeys.

Our website creates a sharing system via which you can travel to your desired location by sharing a single car. You can take one seat or four, depending on available seats provided by the driver. Through our website, people can interact with drivers by directly contacting them, creating rides, events, and much more. Our target audiences are the general public of Dhaka city. For example, you immediately need to go to Noakhali. The website will show all the available rides from the user's location to Noakhali with the available seats and personal contacts of the driver and the respected fares, without any involvement of any third party.

The main goal was to make a website to help out the travelers and the drivers. The travelers will get an extra option among the many means of travel, and the driver will get another source of income.

Background

HTML Or Hypertext Markup Language is a programming language used to describe the structure of information on a webpage.

CSS or “Cascading Style Sheets” is a computer language for laying out and structuring web pages.

JavaScript is commonly used for creating web pages. It allows us to add dynamic behavior to the webpage and add special effects to the webpage.

PHP is a server-side scripting language and a powerful tool for creating dynamic and interactive web pages. PHP is widely used, free and powerful.

MySQL is a relational database management system based on SQL – Structured Query Language. We used the MySQL database to store and deal with all the data.

User Story

Use Case 1:

Miss Arita is a travel blogger and wants to travel through Dhaka. However, she is on a budget. She needs to search for a ride. She can register with our service and search for the required service.

Use Case 2:

Labib has recently lost his job due to COVID. However, he has a car and wants to utilize it. He can register for our service by giving his entire information. We will create the pathway for him without any external fare and third party involvement,

Use Case 3:

Mr. Sheshir is an admin and wants to know the user experience of the service that we are providing. He can access both the driver and customer(user) list with their contact information and get the information.

Use Case 4:

Miss Madhobilita is an existing driver who uses our service. However, for some occasion, she needs to use our service as a customer. She wants to request a ride. She can do so but she has to register as a customer(user) first and then request a ride.

Limits

- This service is only for Dhaka city only.
- The driver can request service as a customer but there is no sharing of role or account and hence need to create a new account with a role of the customer(user).

Methodology/Procedure

i. Design Process:

Figure-1.1 shows the Architecture Diagram of our project -

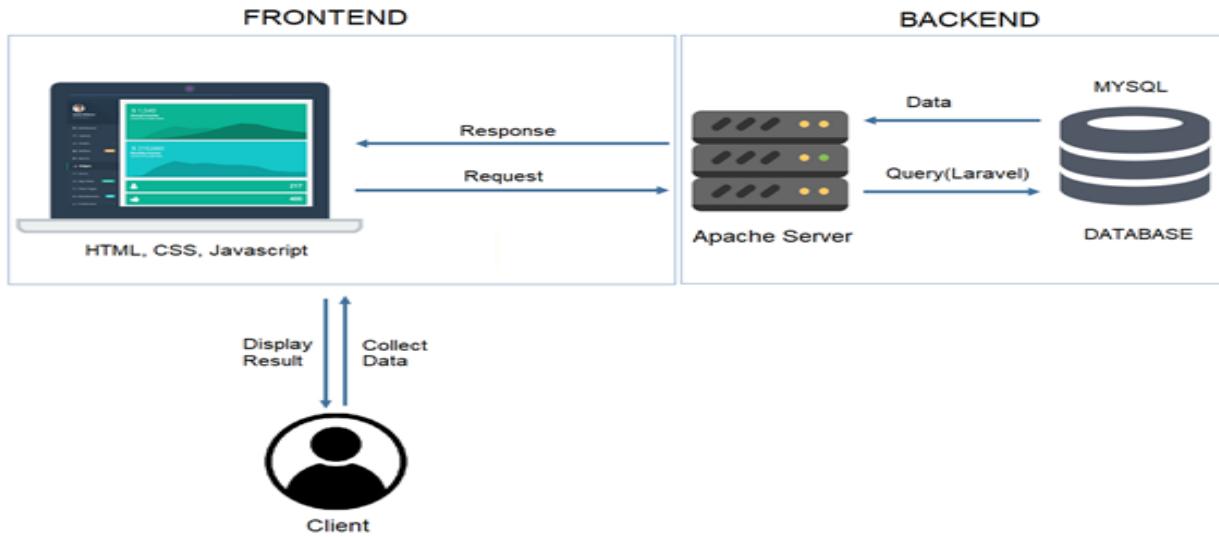


Figure-1.1: Architecture Diagram

Figure-1.2 shows the User Schema Diagram of our project -

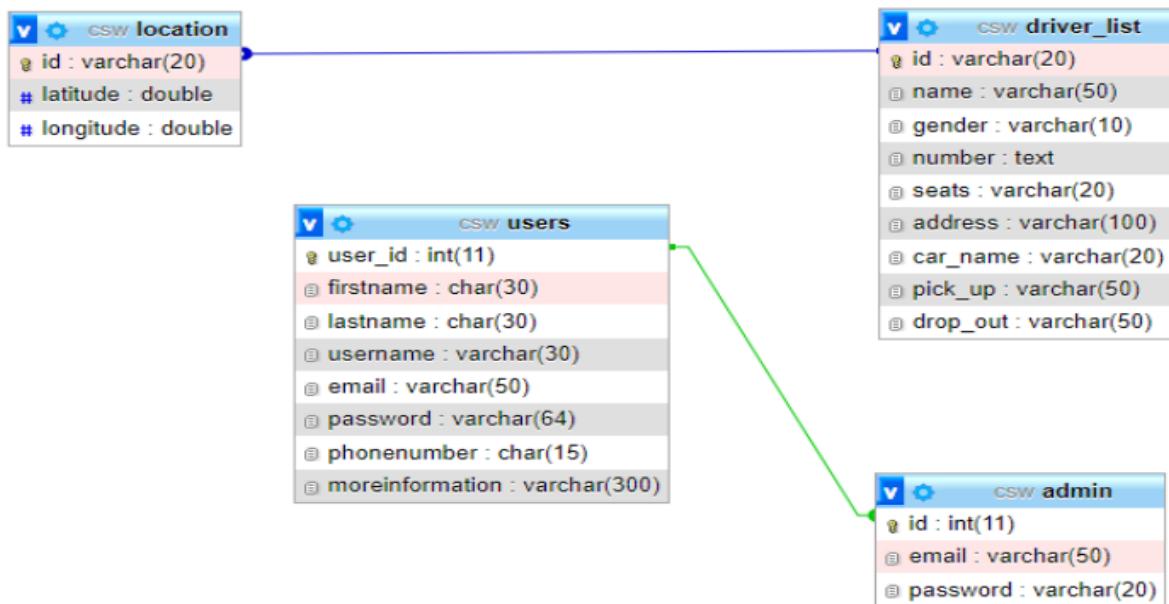


Figure-1.2: User Schema Diagram

Figure-1.3 shows the **Use Case Diagram** of our project -

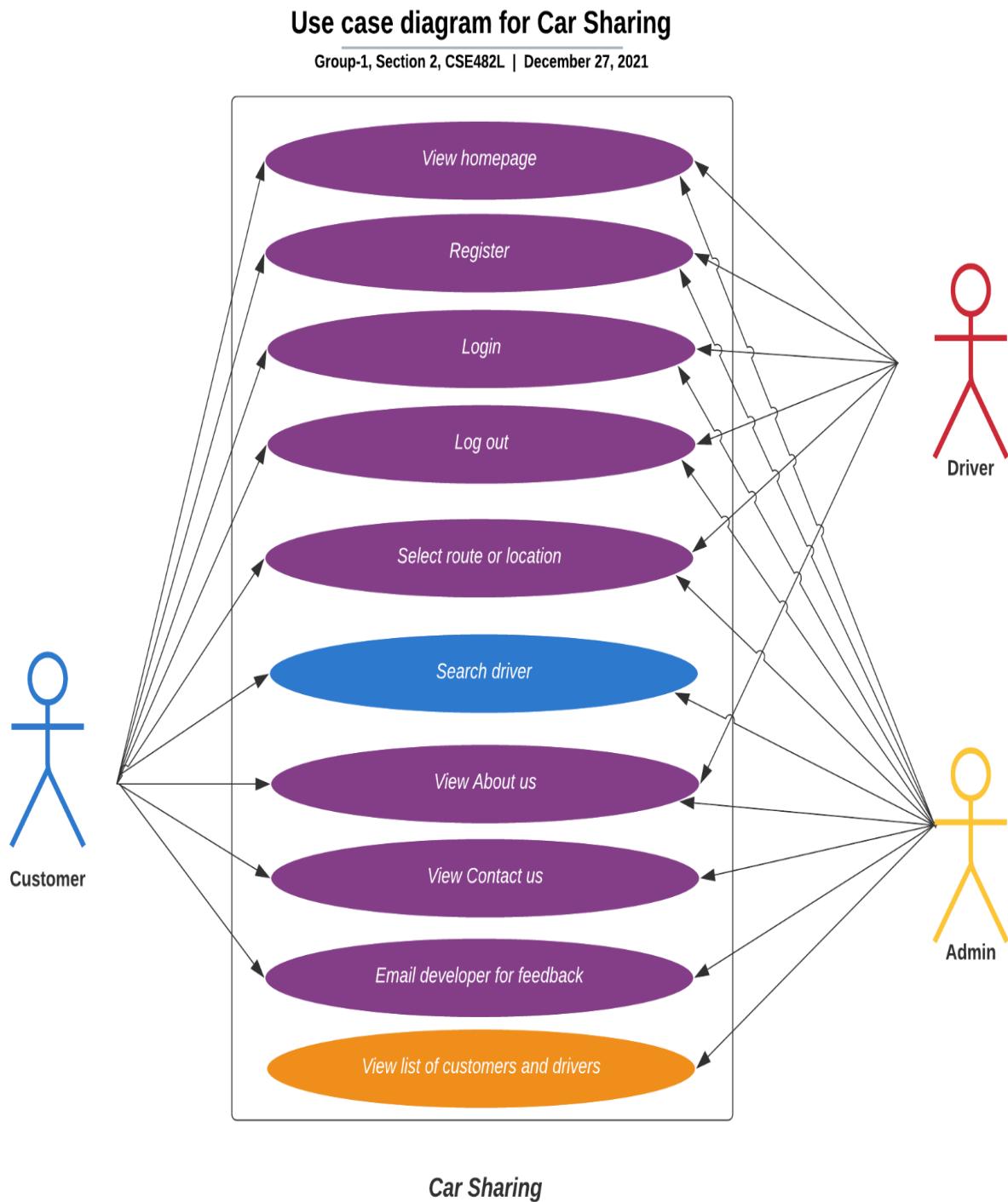


Figure-1.3: Use Case Diagram

ii. Implementation of front-end:

We have mainly used HTML, CSS, and JS in our front end, this was mainly used for div alignment, modals, forms, buttons, etc. It also made our UI look much more organized and user-friendly.

Home-Page code:

Figure- 1.5(i) and Figure- 1.5(ii)

```
<?php include 'map.php'; ?>
    </form>
<br><br>
<?php
if(isset($_POST['sub']))
{
    $seats=@$_POST['seats'];
    $pick_up=@$_POST['pick_up'];
    $drop_out=@$_POST['drop_out'];
    $latitude=$_POST['latitude'];
    $longitude=$_POST['longitude'];
?>
<br>
<table id="customers" style="margin: 0px auto;">
    <tr>
        <th>Name</th>
        <th>Gender</th>
        <th>Phone Number</th>
        <th>Seats Available</th>
        <th>Address</th>
        <th>Car Name</th>
        <th>Pick up</th>
        <th>Drop out</th>
    </tr>
    <?php
        $ql=$db->query("SELECT id, abs('$latitude' - latitude) AS a FROM location ORDER BY a
LIMIT 2");
        while ($pl=$ql->fetch(PDO::FETCH_OBJ)) {
            $id=$pl->id;
            $q=$db->query("SELECT * FROM driver_list WHERE seats='$seats' AND pick_up='$pick_up' AND
drop_out='$drop_out' AND id='$id'");
            $count=0;
            while ($p=$q->fetch(PDO::FETCH_OBJ)) {
                ?>
                <tr>
                    <td><?= $p->name; ?></td>
                    <td><?= $p->gender; ?></td>
                    <td><?= $p->number; ?></td>
                    <td><?= $p->seats; ?></td>
                    <td><?= $p->address; ?></td>
                    <td><?= $p->car_name; ?></td>
                    <td><?= $p->pick_up; ?></td>
                    <td><?= $p->drop_out; ?></td>
                <?php
                }
                ?>
            </tr>
        }
    </?php
}</table>
```

```

        <?php
    }
    ?>
</table>
<?php
}

```

Only the PHP part has been shown.

iii. Sign Up and Login:

Sign Up redirects us to the ‘Sign Up’ page **Fig: 1.6**, on which the user can Sign Up. Along with this, there is a login button on the sign-up page as well which re-directs to the ‘Login’ page **Fig: 1.7**.

Sign Up Code:

```

<?php
include('connection.php');
session_start();
?>
<form action="" method="post">
<h1>Sign Up</h1>
<input type="text" name="firstname" placeholder="First Name" autofocus required>
<input type="text" name="lastname" placeholder="Last Name" autofocus required>
<input type="text" name="username" placeholder="Username" autofocus required>
<input type="email" name="email" placeholder="Email" autofocus required>
<input type="password" name="password" placeholder="Password" autofocus required>
<input type="password" name="" placeholder="Confirm Password" autofocus required>
<input type="text" name="phonenumbers" placeholder="Phone No" autofocus required>
<input type="text" name="moreinformation" placeholder="More Information" autofocus required>
<button type="submit" name="sub">Sign Up</button><br><br>
<li><a href="login.php" type="submit" style="width: 350px; height: 40px; font-size: 20px; background: transparent; color: black;">Login</a></li>
</form>
<?php
if(isset($_POST['sub'])){
    $firstname=$_POST['firstname'];
    $lastname=$_POST['lastname'];
    $username=$_POST['username'];
    $email=@$_POST['email'];
    $password=$_POST['password'];
    $phonenumbers=$_POST['phonenumbers'];
    $moreinformation=$_POST['moreinformation'];
    $q=$db->prepare("INSERT INTO
users(firstname, lastname, username, email, password, phonenumbers, moreinformation) VALUES
(:firstname,:lastname,:username,:email,:password,:phonenumbers,:moreinformation)");
    $q->bindValue('firstname',$firstname);
    $q->bindValue('lastname',$lastname);
    $q->bindValue('username',$username);
    $q->bindValue('email',$email);
    $q->bindValue('password',$password);
    $q->bindValue('phonenumbers',$phonenumbers);
}

```

```

$q->bindValue('moreinformation',$moreinformation);

if($q->execute())
{
    echo "<script>alert('Sign Up Successfull')</script>";
}
else
{
    echo "<script>alert('Sign Up Fail')</script>";
}
?>

```

Login Code:

```

<?php
include('connection.php');
session_start();
?>
<form action="" method="post">
<h1>Login</h1>
<input type="email" name="un" placeholder="Email">
<input type="password" name="ps" placeholder="Password">
<button type="submit" name="sub">Login</button>
</form>
<?php
if(isset($_POST['sub']))
{
    $un=$_POST['un'];
    $ps=$_POST['ps'];
    $q=$db->prepare("SELECT * FROM users WHERE email='$un' && password='$ps'");
    $q->execute();
    $res=$q->fetchAll(PDO::FETCH_OBJ);
    if($res)
    {
        $_SESSION['un']=$un;
        header("Location:search_driver.php");
    }
    else
    {
        echo "<script>alert('Wrong User')</script>";
    }
}
?>

```

vi. Maps:

Map layout on the homepage will be visible after only logging in and this will use Google API. This will also appear on the create ride page as well.

Maps code:

```
<head>
    <title>Google Map</title>
    <style>
        #map {
            height: 400px;
            width: 100%;
        }
    </style>
</head>
<body>

    <script type="text/javascript">
        var map;

        function initMap() {
            var latitude = 23.756232735889714;
            var longitude = 90.41991378999683;

            var myLatLng = {lat: latitude, lng: longitude};

            map = new google.maps.Map(document.getElementById('map'), {
                center: myLatLng,
                zoom: 14,
                disableDoubleClickZoom: true,
            });

            google.maps.event.addListener(map, 'click',function(event) {
                document.getElementById('latclicked').value = event.latLng.lat();
                document.getElementById('longclicked').value = event.latLng.lng();
            });

            google.maps.event.addListener(map, 'mousemove',function(event) {
                document.getElementById('latmoved').value = event.latLng.lat();
                document.getElementById('longmoved').value = event.latLng.lng();
            });

            var marker = new google.maps.Marker({
                position: myLatLng,
                map: map,

                title: latitude + ', ' + longitude
            });

            marker.addListener('click', function(event) {
                document.getElementById('latclicked').innerHTML = event.latLng.lat();
                document.getElementById('longclicked').innerHTML = event.latLng.lng();
            });
        }
    </script>

```

```

google.maps.event.addListener(map, 'dblclick', function(event) {
    var marker = new google.maps.Marker({
        position: event.latLng,
        map: map,
        title: event.latLng.lat() + ', ' + event.latLng.lng()
    });
    marker.addListener('click', function() {
        document.getElementById('latclicked').innerHTML = event.latLng.lat();
        document.getElementById('longclicked').innerHTML = event.latLng.lng();
    });
});
}
</script>
<script
src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCGKxpbdZt-KFF6DRvJtqGC2saTw8x9cyc&callback=initMap"
async defer></script>
<table align="right">
<br>
<form align="center" class="mp" action="" method="post">
<p align="center">
    <input align="right" id="latclicked" type="number" name="latitude" step="any"
           placeholder="Latitude" style="font-size: 18px; width: 180px; height: 30px;
border-radius: 10px;">

    <input id="longclicked" type="number" name="longitude" step="any"
           placeholder="Longitude" style="font-size: 18px; width: 180px; height: 30px;
border-radius: 10px;">

    <input name="sub" type="submit" value="Submit"
style="background-color:#1797DB;font-size:18px;" />
    <input type="reset" value="Reset"
style="background-color:#ff0000;color:white;font-size:18px;" />
</p>
    <div id="latmoved" type
</body>
</html>

```

v. About Us and Contact Us:

“About Us” and “Contact Us” can be accessed directly from the home page as feedback is one of your major goals, with “Contact Us” giving users the ability to directly contact the dev team via email.

About Us code:

```

<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <title>About Us card || Learning robo</title>
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <link rel="stylesheet" href="css/about_us.css">
        <script src="https://kit.fontawesome.com/dbed6b6114.js"
crossorigin="anonymous"></script>
    </head>
    <body>
        <section>
            <div class = "image">
                
            </div>

            <div class = "content">
                <h2>About Us</h2>
                <span><!-- line here --></span>
                <p>
                    We are group of students who are aiming to complete this beautiful
                    project and serve general people. Our final goal is to provide the best service to the user
                    who will use our product.
                <br/>
                Please let us know your opinion by <em>Contacting with Us</em><br/>
            </p>
            <ul class = "links">
                <li><a href =
"New%20addition/contact_us_email_enabled/contact_us.php">Contact Us</a></li>
            </ul>
            <ul class = "icons">
                <li>
                    <a href="https://github.com/Deathshotterdie98/CSE4882"><i class =
"fa fa-github"></i></a>
                </li>
            </ul>
        </div>
    </body>
</html>

```

Contact Us:

```

<!doctype html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">

        <title>Contact Us</title>

        <link href="css/bootstrap.min.css" rel="stylesheet">
        <link href="css/contact_us.css" rel="stylesheet">

    </head>
    <body>

```

```

<div class="space">
    <h1>Contact us</h1>

</div>
<div class="container">
    <div class="row">
        <div class="col-lg-7 col-12 mx-auto"></div>
        <h2 class="mb-4 text-center">Don't be shy, write to us</h2>

        <form action="#" method="post" class="contact-form" role="form">

            <div class="row">

                <div class="col-lg-6 col-6">
                    <label for="name" class="form-label">Name <sup
class="text-danger">*</sup></label>

                    <input type="text" name="name" id="name"
class="form-control" placeholder="Full name" required>
                </div>

                <div class="col-lg-6 col-6">
                    <label for="email" class="form-label">Email <sup
class="text-danger">*</sup></label>

                    <input type="email" name="email" id="email"
pattern="[^ @]*@[^ @]*" class="form-control" placeholder="Email address" required>
                </div>

                <div class="col-12 my-4">
                    <label for="message" class="form-label">How can we
help?</label>

                    <textarea name="message" rows="6"
class="form-control" id="message" placeholder="Tell us about the project"
required></textarea>

                </div>

                <div class="col-12">
                    <label for="services" class="form-label">How was the
Service<sup class="text-danger">*</sup></label>
                </div>

                <div class="col-lg-4 col-12">
                    <div class="form-check">
                        <input type="checkbox" id="checkbox1"
name="checkbox1" class="form-check-input">
                        <label class="form-check-label"
for="checkbox1">Bad</label>
                    </div>
                </div>

                <div class="col-lg-4 col-12 my-2 my-lg-0">
                    <div class="form-check">
                        <input type="checkbox" id="checkbox2"
name="checkbox2" class="form-check-input">
                        <label class="form-check-label"

```

```

    <for="checkbox2">Average</label>
                                </div>
                            </div>

                            <div class="col-lg-4 col-12">
                                <div class="form-check">
                                    <input type="checkbox" id="checkbox3"
name="checkbox3" class="form-check-input">
                                            <label class="form-check-label"
for="checkbox3">Best</label>
                                </div>
                            </div>

                            <div class="col-lg-5 col-12 mx-auto mt-5">
                                <button type="submit" class="form-control">Send
Message</button>
                            </div>
                        </div>
                    </div>
                </div>
            </body>

```

vi. Create Ride/Driver Registration:

“The Create driver”, Figure- 2.2, can only be accessed by the users. Also, certain lists like “User Data List”, Figure- 2.1, and “Driver’s Data List”, Figure- 2.0, can be accessed by the admin only..

Create Ride code:

```

<form action="" method="post">
    <input id="first" type="text" name="name" style="font-size: 18px; width: 180px; height:
30px; border-radius: 10px;" placeholder="Full Name" autofocus required /><br><br>
    <label for="Gender">Gender:</label>
    <input type="radio" name="gender" value="Male"/>Male
    <input type="radio" name="gender" value="Female"/>Female
    <input type="radio" name="gender" value="Others"/>Others
    <br><br>
    <input id="phone" type="text" name="number" style="font-size: 18px; width: 180px; height:
30px; border-radius: 10px;" placeholder="+8801*****" required /><br><br>
    <select name="seats" style="border-radius: 10px">
        <option>Seats</option>
        <option>0</option>
        <option>1</option>
        <option>2</option>
        <option>3</option>
        <option>4</option>
    </select><br><br>
    <input id="first" type="text" name="address" style="font-size: 18px; width: 180px;
height: 30px; border-radius: 10px;" placeholder="Address" autofocus required /><br><br>

```

```

<input id="first" type="text" name="car_name" style="font-size: 18px; width: 180px; height: 30px; border-radius: 10px;" placeholder="Car Name" autofocus required /><br><br>
<select name="pick_up" style="border-radius: 10px">
<option>Pick Up</option>
<option>Mirpur</option>
<option>Dhanmondi</option>
<option>Uttara</option>
<option>Bashundhara</option>
<option>Motijheel</option>
<option>Mohammadpur</option>
<option>Gandaria</option>
</select>
<select name="drop_out" style="border-radius: 10px">
<option>Drop Out</option>
<option>Mirpur</option>
<option>Dhanmondi</option>
<option>Uttara</option>
<option>Bashundhara</option>
<option>Motijheel</option>
<option>Mohammadpur</option>
<option>Gandaria</option>
</select>
<?php include 'map.php'; ?>
</form>
<?php
if(isset($_POST['sub'])){
    $id=uniqid();
    $name=$_POST['name'];
    $gender=@$_POST['gender'];
    $number=$_POST['number'];
    $seats=$_POST['seats'];
    $address=$_POST['address'];
    $car_name=$_POST['car_name'];
    $pick_up=$_POST['pick_up'];
    $drop_out=$_POST['drop_out'];
    $q=$db->prepare("INSERT INTO
driver_list(id,name,gender,number,seats,address,car_name,pick_up,drop_out) VALUES
(:id,:name,:gender,:number,:seats,:address,:car_name,:pick_up,:drop_out)");
    $q->bindValue('id',$id);
    $q->bindValue('name',$name);
    $q->bindValue('gender',$gender);
    $q->bindValue('number',$number);
    $q->bindValue('seats',$seats);
    $q->bindValue('address',$address);
    $q->bindValue('car_name',$car_name);
    $q->bindValue('pick_up',$pick_up);
    $q->bindValue('drop_out',$drop_out);
    if($q->execute()){
        $latitude=$_POST['latitude'];
        $longitude=$_POST['longitude'];
        $l=$db->prepare("INSERT INTO location(id,latitude,longitude) VALUES
(:id,:latitude,:longitude)");
        $l->bindValue('id',$id);
        $l->bindValue('latitude',$latitude);
        $l->bindValue('longitude',$longitude);
        if($l->execute()){
            echo "<script>alert('Registration Succesfull!')</script>";
        }
    }
}
else{

```

```
        echo "<script>alert('Registration Failed!')</script>";
    }
?>
```

Results

Lighthouse, an open-source and automated tool was used to test and improve the quality of web pages that we have designed for the project. It was run against all the web pages after development. It provides audits for performance, accessibility, progressive web apps, SEO, and more.

The preview or screenshot of webpages along with their individual testing performed by the lighthouse in Chrome DevTools are given below:

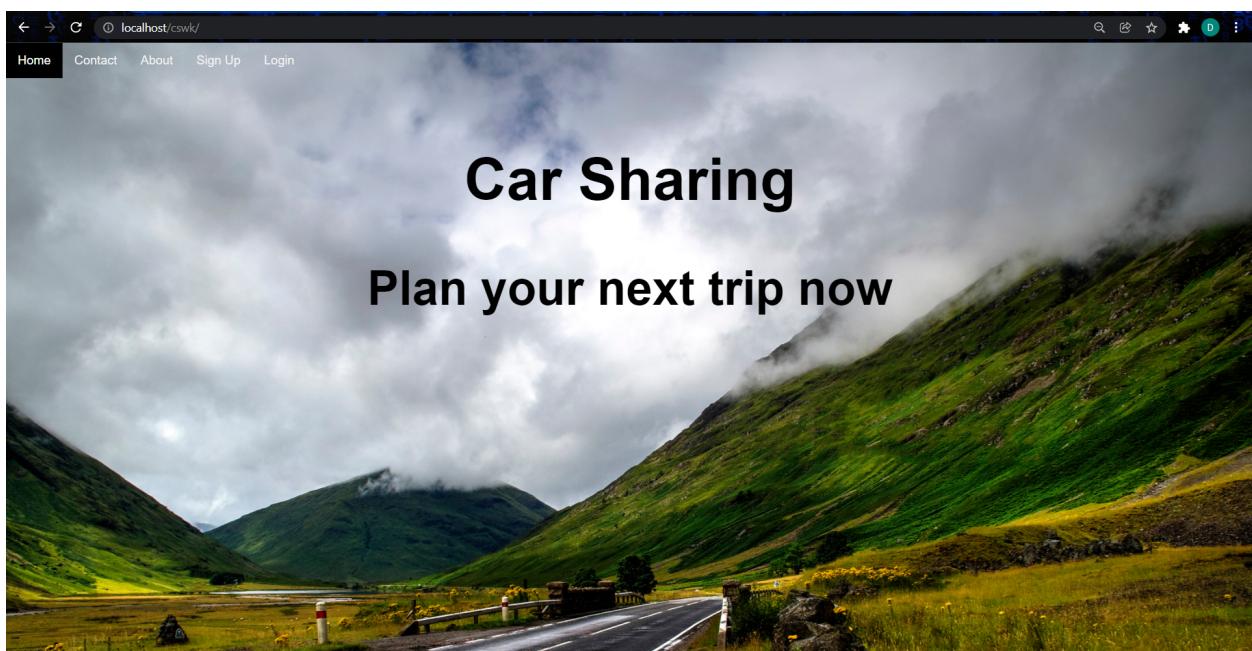
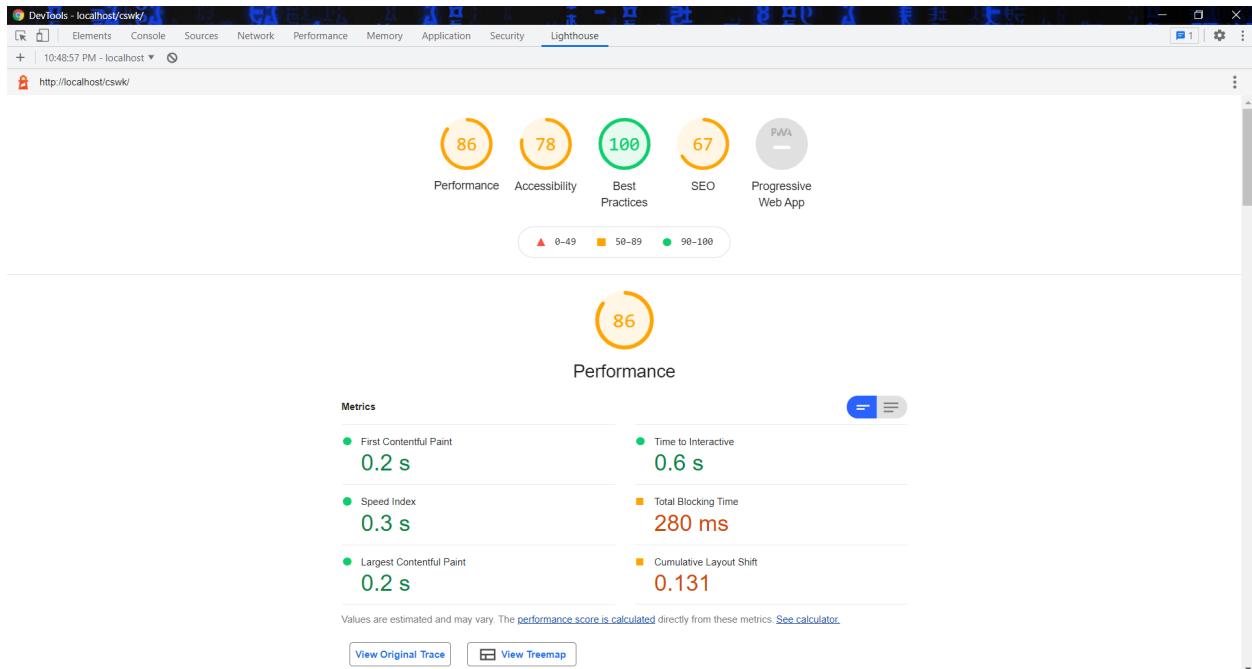


Figure- 1.5(i)
Home Page before Logging in



The corresponding LightHouse score of Figure- 1.5(i)

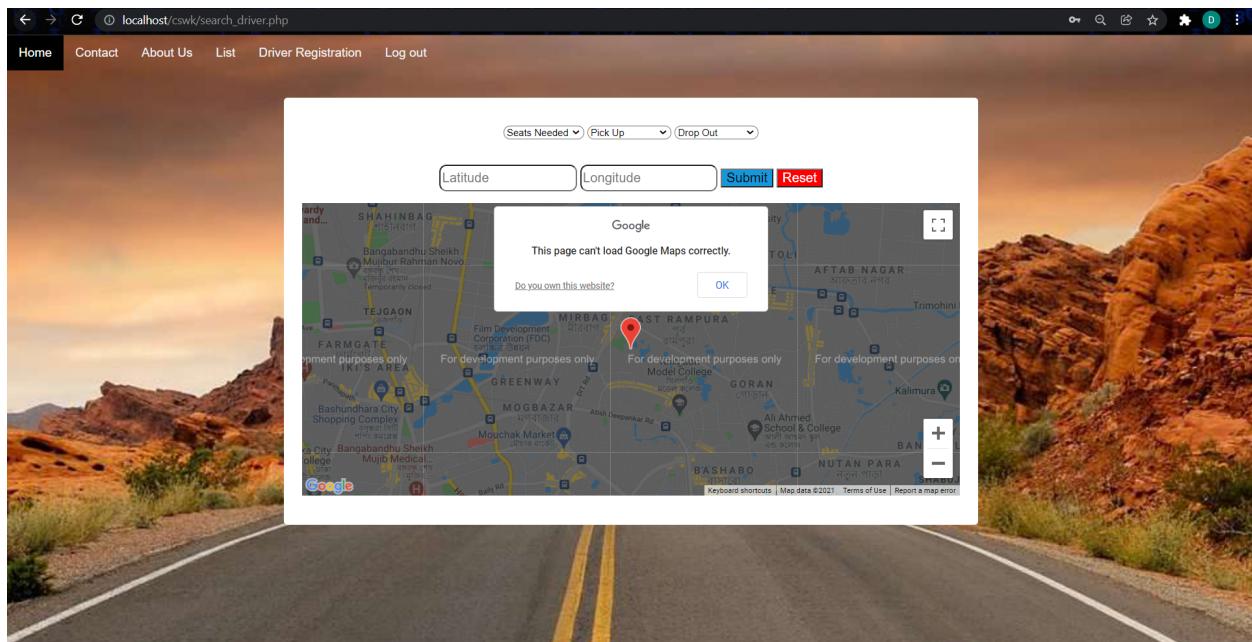
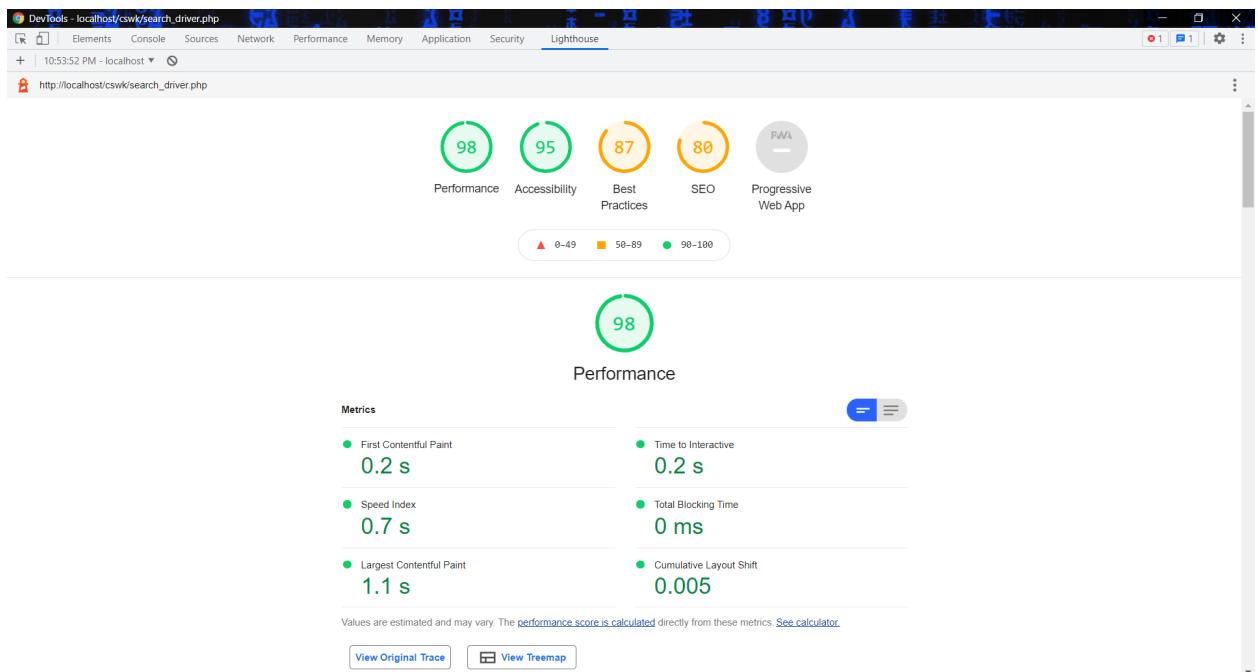
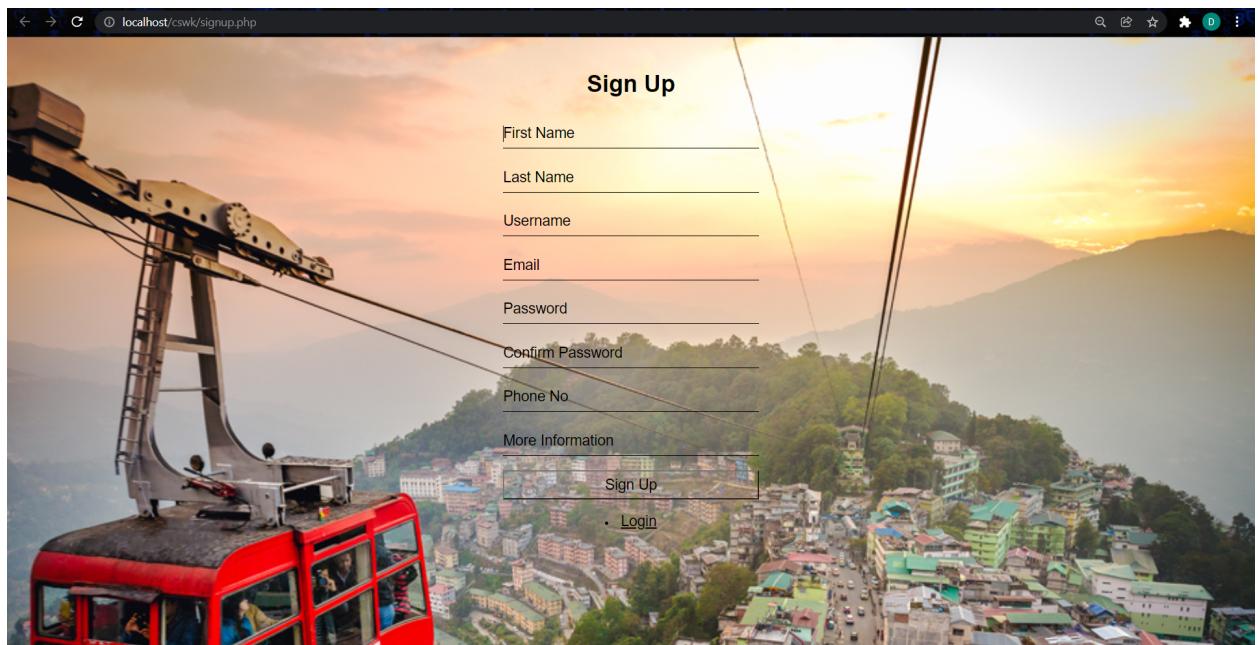


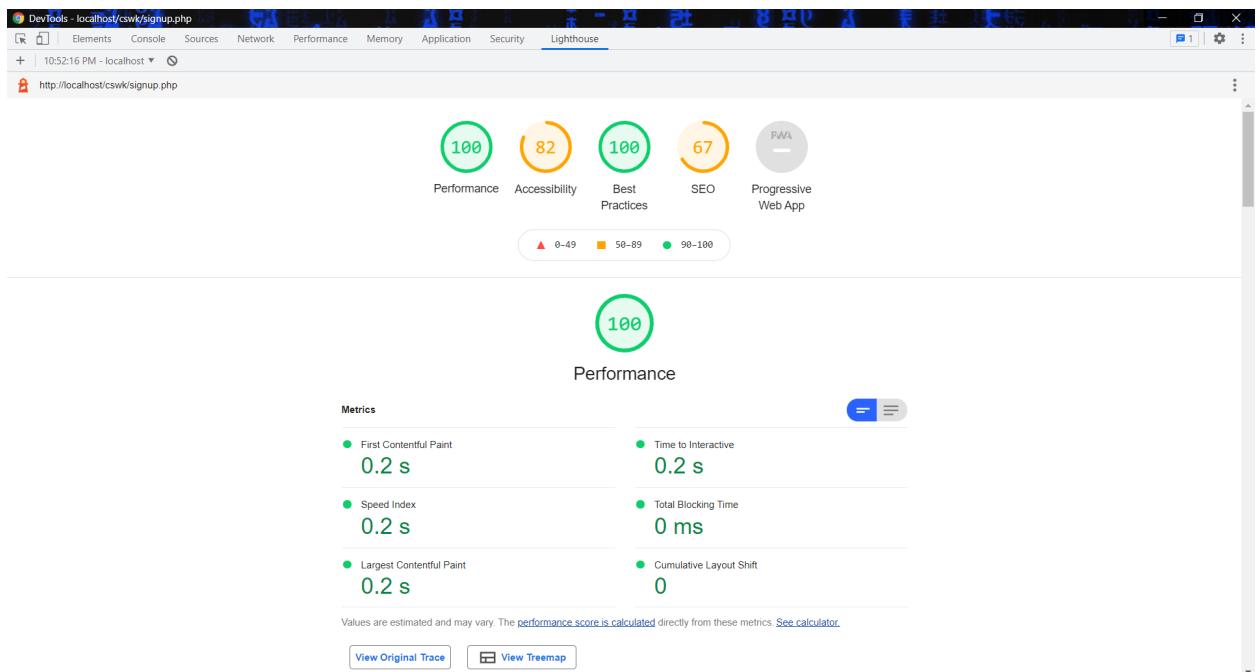
Figure- 1.5(ii)
Home Page after Logging in



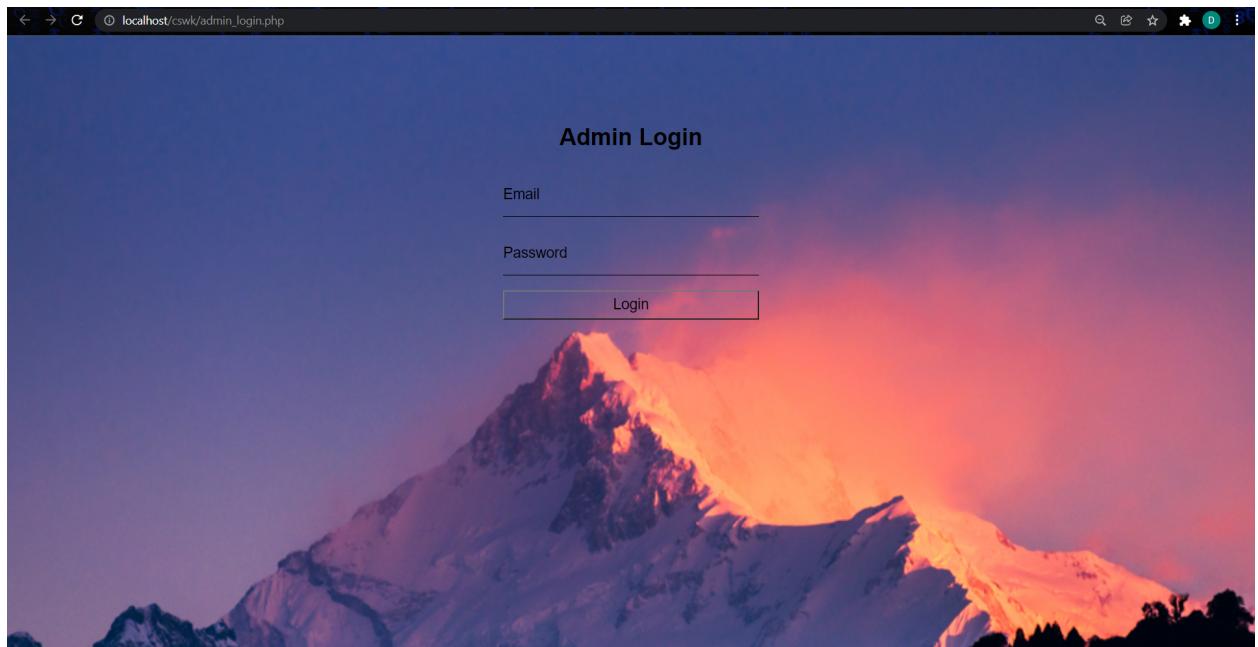
The corresponding LightHouse score of Figure- 1.5(ii)



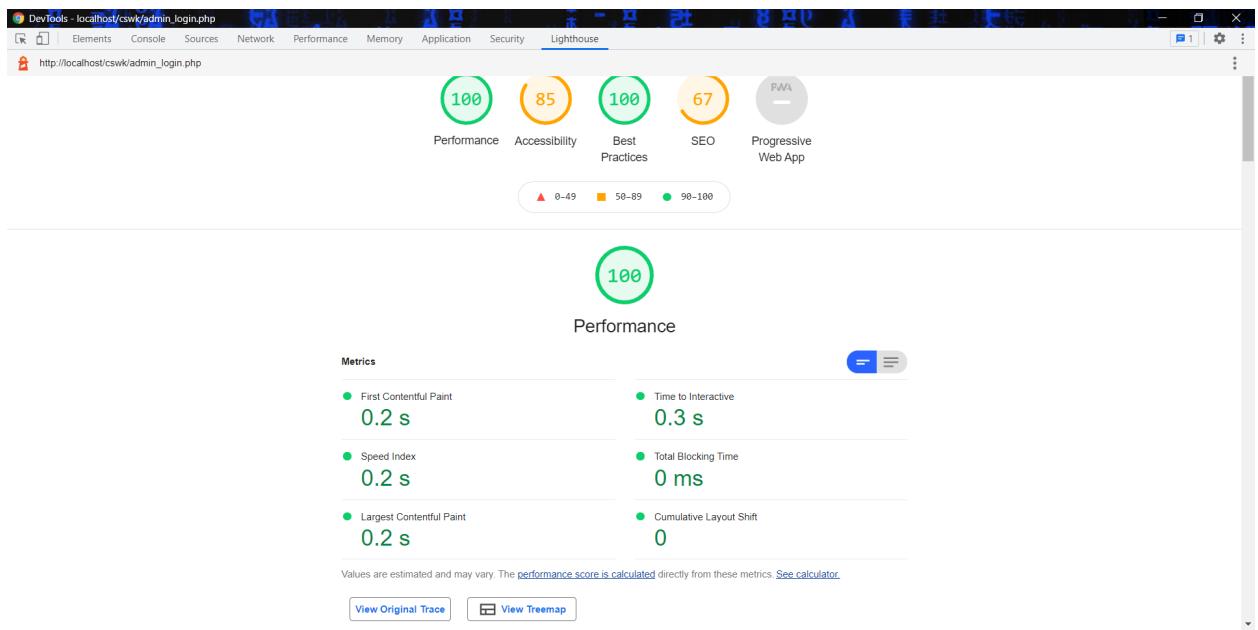
The Sign-Up page Figure- 1.6



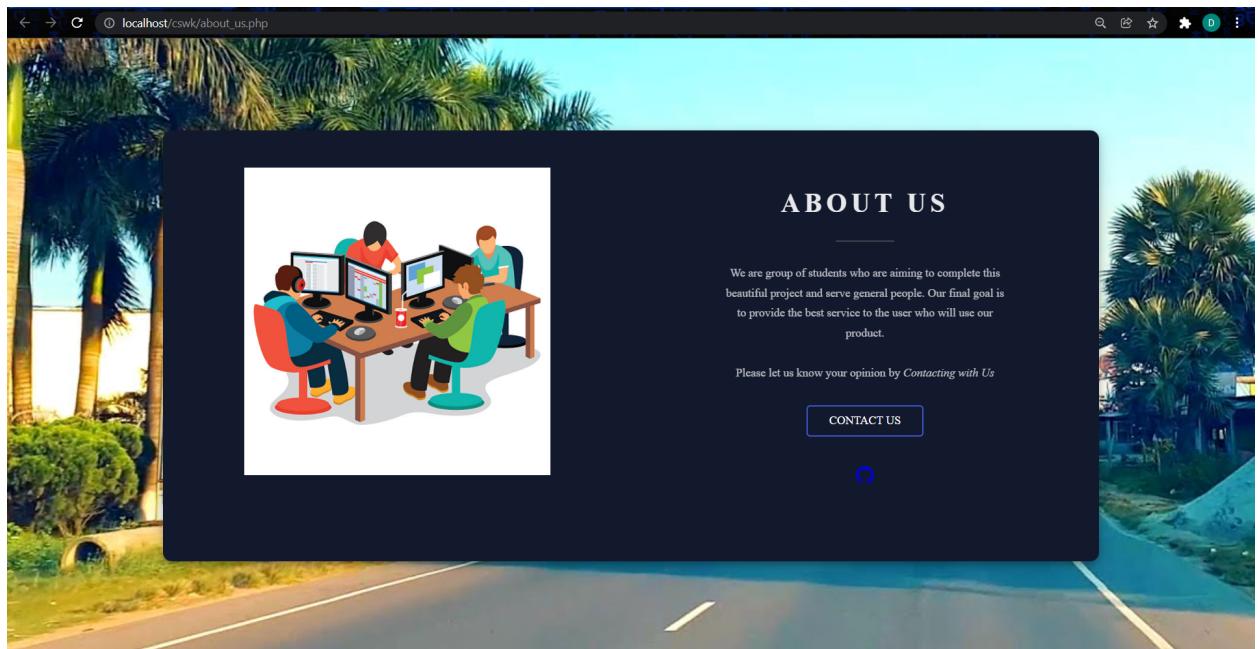
The corresponding LightHouse score of **Figure- 1.6**



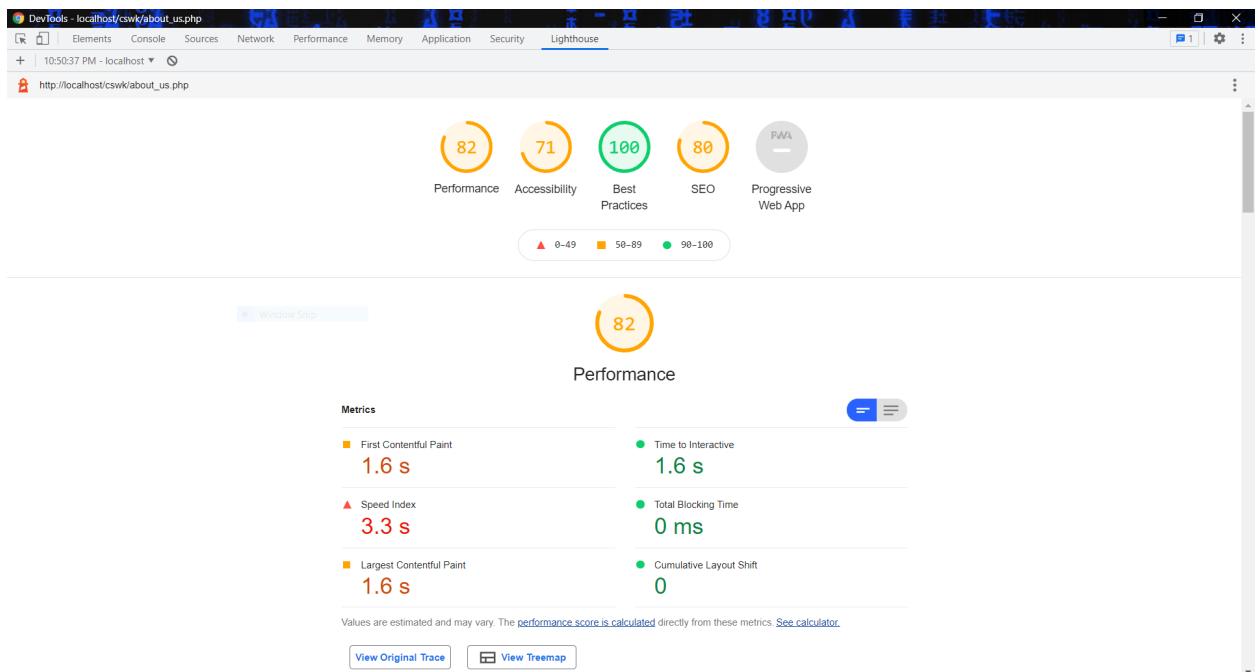
Login page **Figure- 1.7**



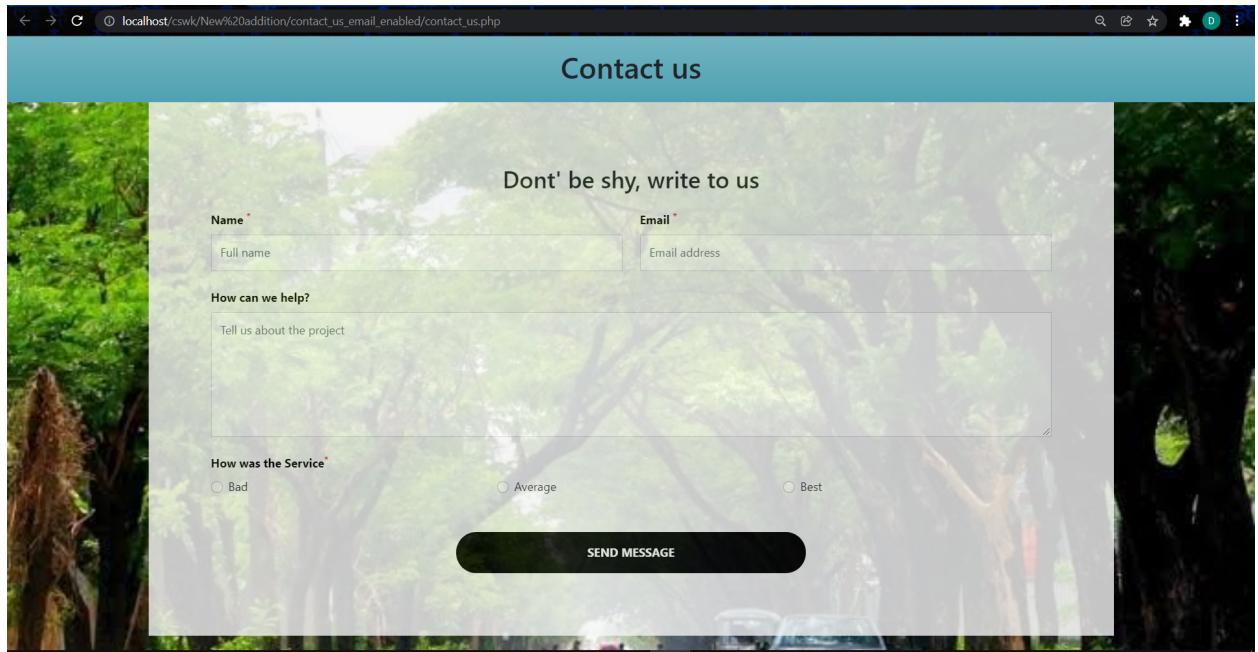
The corresponding LightHouse score of **Figure- 1.7**



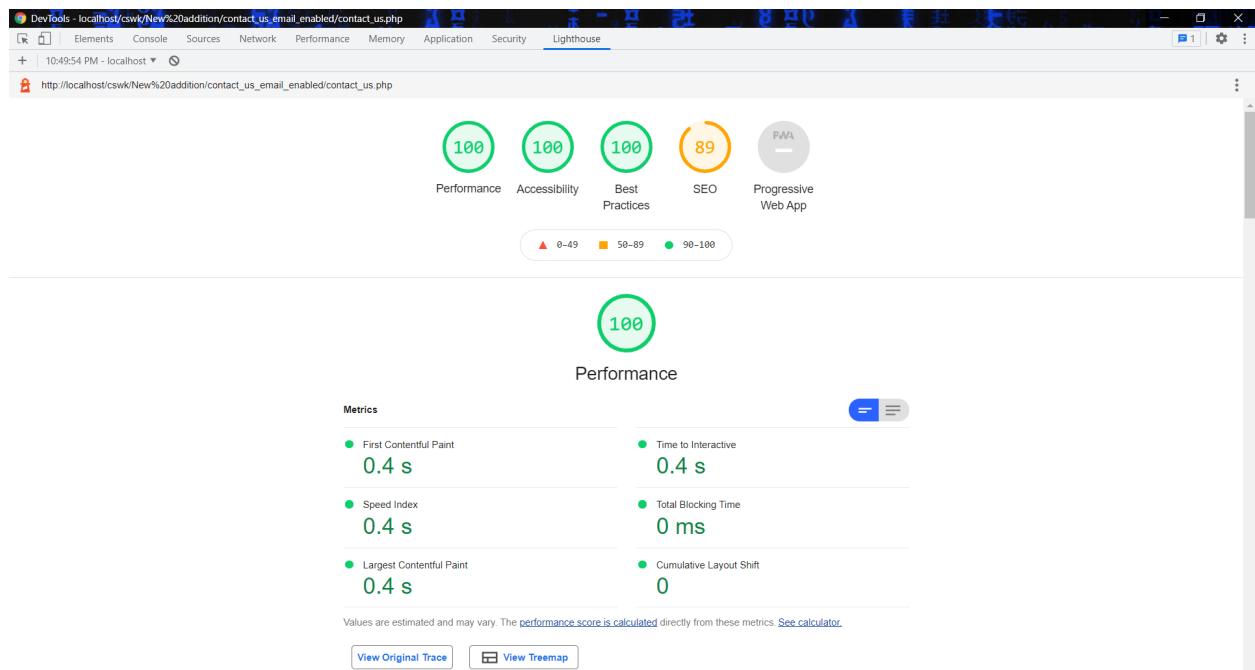
About Us page. **Figure- 1.8**



The corresponding LightHouse score of **Figure- 1.8**

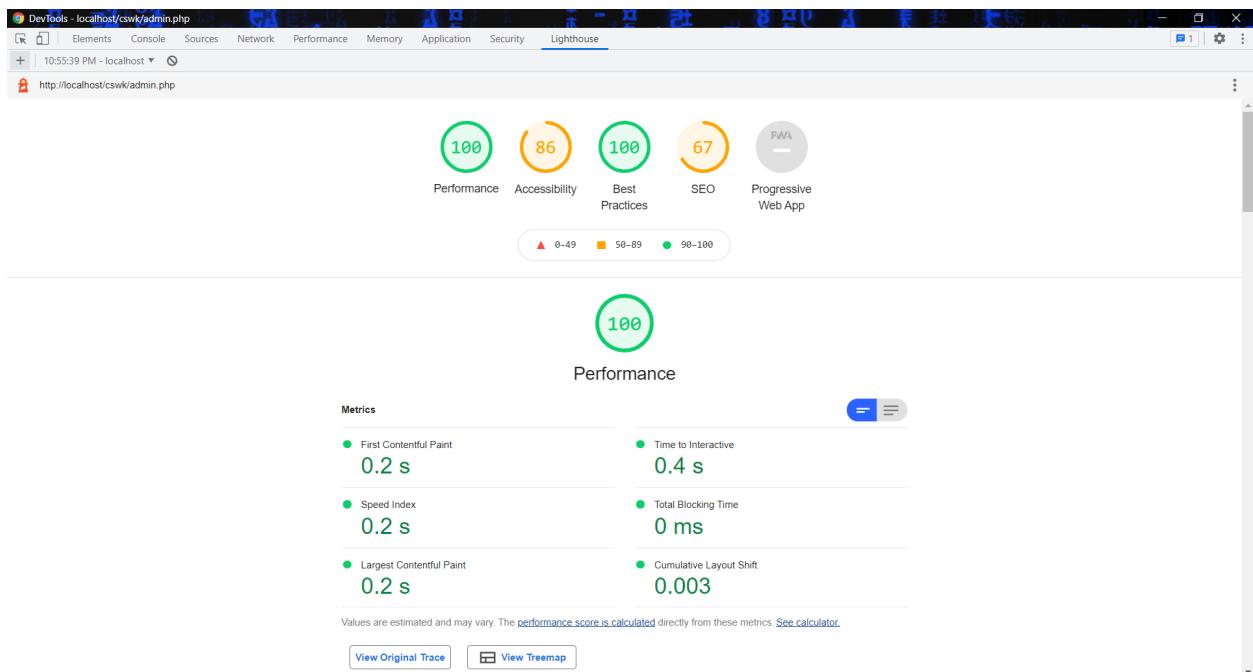


Contact Us page.**Figure- 1.9**



The corresponding LightHouse score of Figure- 1.9

User Data List Figure- 2.0

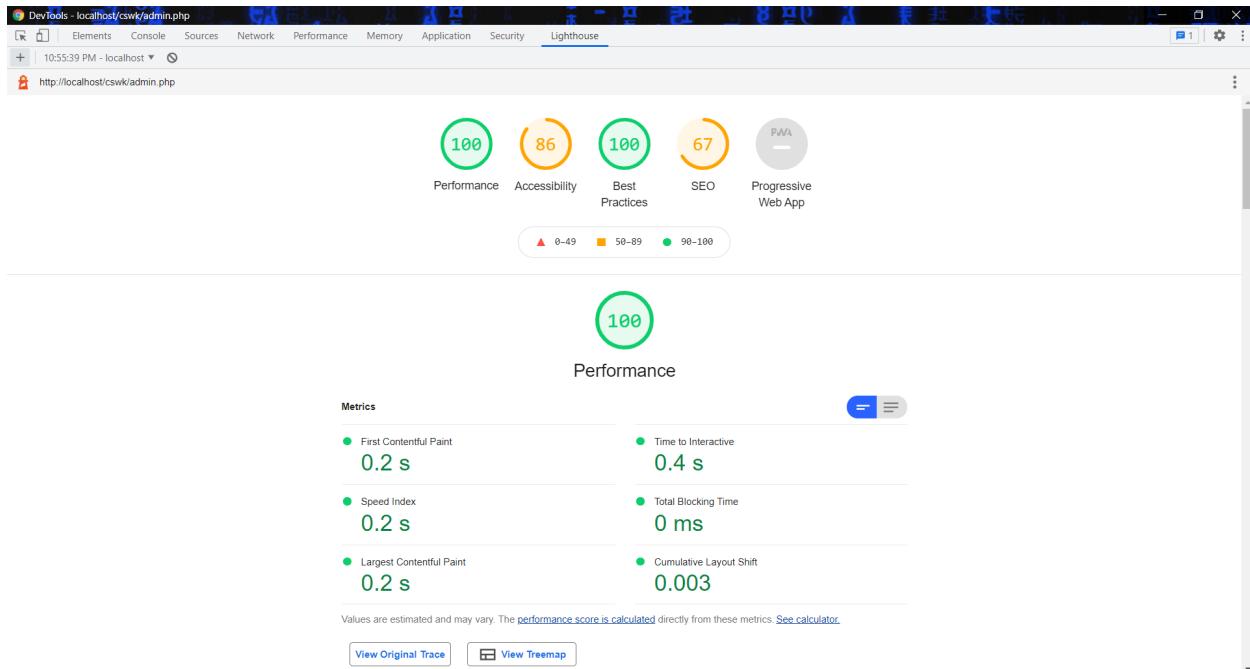


The corresponding LightHouse score of User Data List **Figure- 2.0**

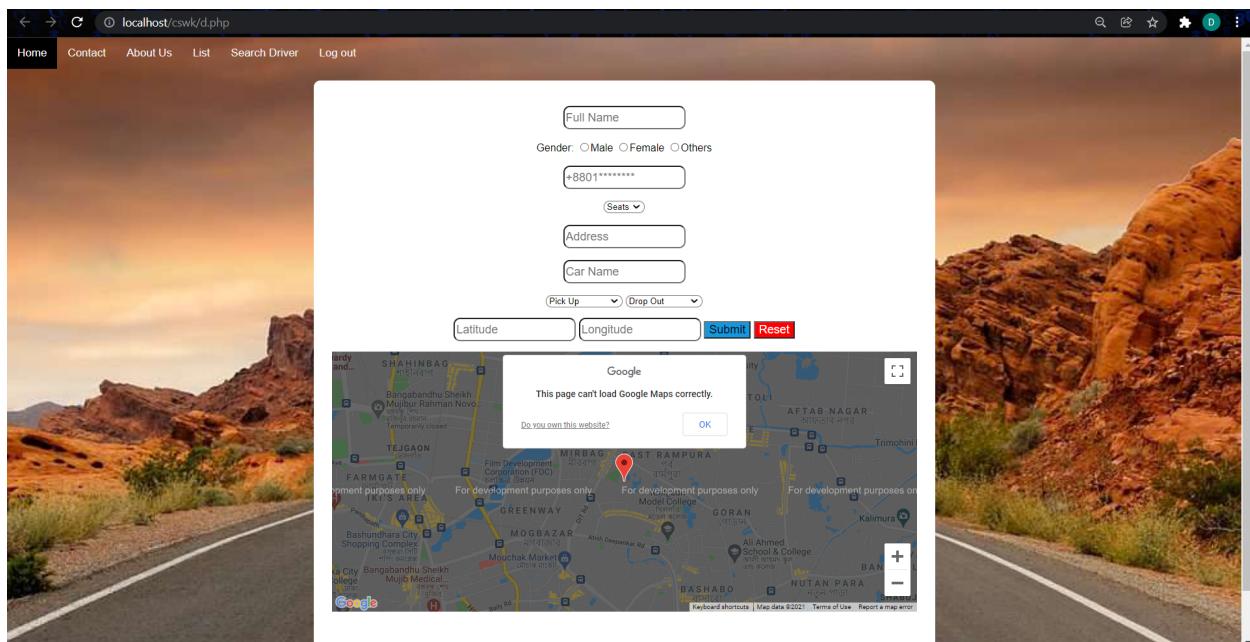
The screenshot shows a table titled "Driver's Data List" displaying the following data:

ID	Name	Gender	Phone Number	Seat Available	Address	Car Name
61c1e58281359	Ashfaq	Male	1733889378	3	Mirpur	Premio
61c1e5ed33c53	Kazi	Male	01534394439	4	Mirpur	Corolla
61c2ddda16eb	Dragon	Male	015	3	Bashundhara	Toyota

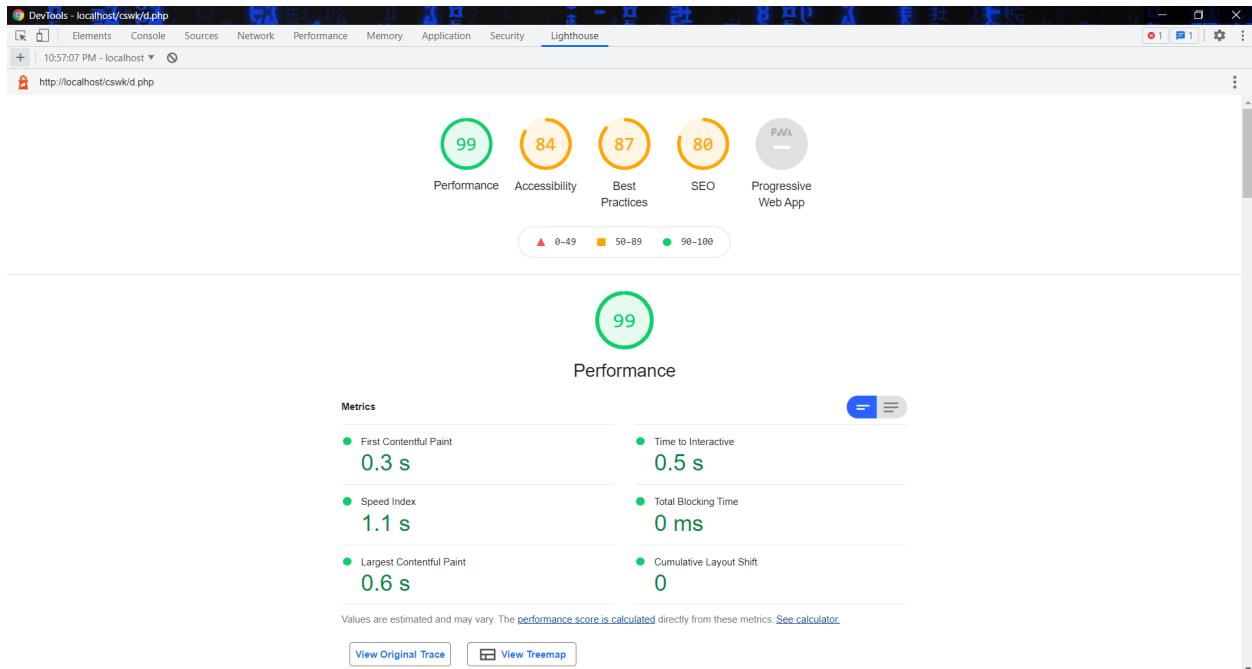
Driver's Data List **Figure- 2.1**



The corresponding LightHouse score of Figure- 2.1



Driver's Registration Page Figure- 2.2



The corresponding LightHouse score of **Figure- 2.2**

Conclusion

We tried to implement our best HTML, CSS, Javascript work into the frontend of this website, however, every website needs a backend, we were familiar with building the backend using PHP. Our Lighthouse scores define the quality of web pages that we have designed for the project. For future plans, we would like to collaborate with the other rentals officially and get further approval from the University to launch this website for mass use.