

CAB SHARING WEBSITE

PROJECT REPORT

For

Internet and Web Programming (CSE-3002)

Slot: E2

Submitted by

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CERTIFICATE

This is to certify that the project work entitled "***Cab Sharing Website***" that is being submitted by "***Sushmit Vaish (17BCE0753), Vansh Arora (17BCE0857) and Amough Mittal (17BCE0210)***" for Internet and Web Programming (CSE3002) is a record of bonafide work done under my supervision. The contents of this Project work, in full or in parts, have neither been taken from any other source nor have been submitted for any other CAL course.

Place: Vellore

Date: 6th November, 2019

Signature of Student:

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ACKNOWLEDGEMENTS

We take immense pleasure in thanking Dr. G. Viswanathan, our beloved Chancellor, VIT University and respected Dean, Dr. R. Saravanan, for having permitted us to carry out the project.

We express gratitude to our guide, Dr. K. Jayakumar, for guidance and suggestions that helped us to complete the project on time. Words are inadequate to express our gratitude to the faculty and staff members who encouraged and supported us during the project.

Finally, we would like to thank our ever-loving parents for their blessings and our friends for their timely help and support.

Signature of Students

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Vansh Arora

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1. Abstract

Our project is to implement security to a Cab Sharing Website, for facilitating riding and hailing of a cab by customers to get from one location to another. Our goal is to make an intuitive User Interface and a robust backend to protect the integrity of the users and drivers, in order to provide a safe and comfortable journey. To make the site secure we will use some Web Security functionalities such as implementing password security, managing SQL Injection, etc.

2. Introduction

This Cab sharing website will help user to find people to share their rides at a very unbeatable travel cost. It is a technological source for passenger transport by connecting drivers and passengers immediately. User no longer have to plan their journey in advance as this site will direct the driver to their future passenger. Just call a driver by typing your destination and find other members who are travelling to the same destination and send a sharing request to them or accept sharing request for them to travel cost effectively as well as to cover your fuel cost too. Moreover, with a Sharing taxi app you don't want to travel long distances with empty seats, just share your journey with passengers & travel economically. The Taxi service app provides you the following features:

1. A Login & Signup Page for users and a separate page for drivers.
2. Search bar on the home page to enter the location to get the cab to.
3. On entering the location, the route will be displayed on the map.
4. The results shown will also consist the cost of the trip, contact info of the driver and few more details.
5. There would be a Trips Page to view details of past trips and make changes to upcoming trips.
6. There is a profile page where a person can view his/her profile and edit the profile picture as well.

Technical Specification:

1. HTML5 –

We have used HTML5 to develop the basic structure of the website. The main reason for doing so is that it allows us to describe more precisely what our content is. It allows us to easily communicate with the server in new and innovative ways. Also, it allows webpages to store data on the client side locally and operate offline more efficiently.

2. CSS3 –

We have used CSS3 to add beautification to our website. It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provides an additional feature to HTML. There are various ways to link a stylesheet to an HTML document, it can be done internally, externally or be embedded in the particular block of code.

3. JavaScript –

We have used javascript here to prove validation and to make our site more dynamic. JavaScript is one of the core technologies of the World Wide Web. JavaScript enables

interactive web pages and is an essential part of web applications. JavaScript is an object orient programming language designed to make web development easier and more attractive. In most cases, JavaScript is used to create responsive, interactive elements for web pages, enhancing the user experience.

4. PHP –

We have used PHP to develop Backend of our project. PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

PHP is a server side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP scripts can only be interpreted on a server that has PHP installed. The client computers accessing the PHP scripts require a web browser only. A PHP file contains PHP tags and ends with the extension ".php".

5. MySQL –

We have used Mysql to handle our database operations. MySQL is a database system used on the web. It is a database system that runs on a server. MySQL is ideal for both small and large applications It is very fast, reliable, and easy to use. It uses standard SQL. It compiles on a number of platforms. MySQL is free to download and use

6. AJAX –

We have used AJAX to link buttons and perform all the linking. AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Java Script

3. Problem Statement

A car rental is a vehicle that can be used temporarily for a fee during a specific period. Getting a rental car helps people get around despite the fact they do not have access to their own personal vehicle or don't own a vehicle at all. The individual who needs a car must contact a car rental company and contract out for a vehicle. This system increases customer retention and simplify vehicle and staff management.

4. Existing system problems

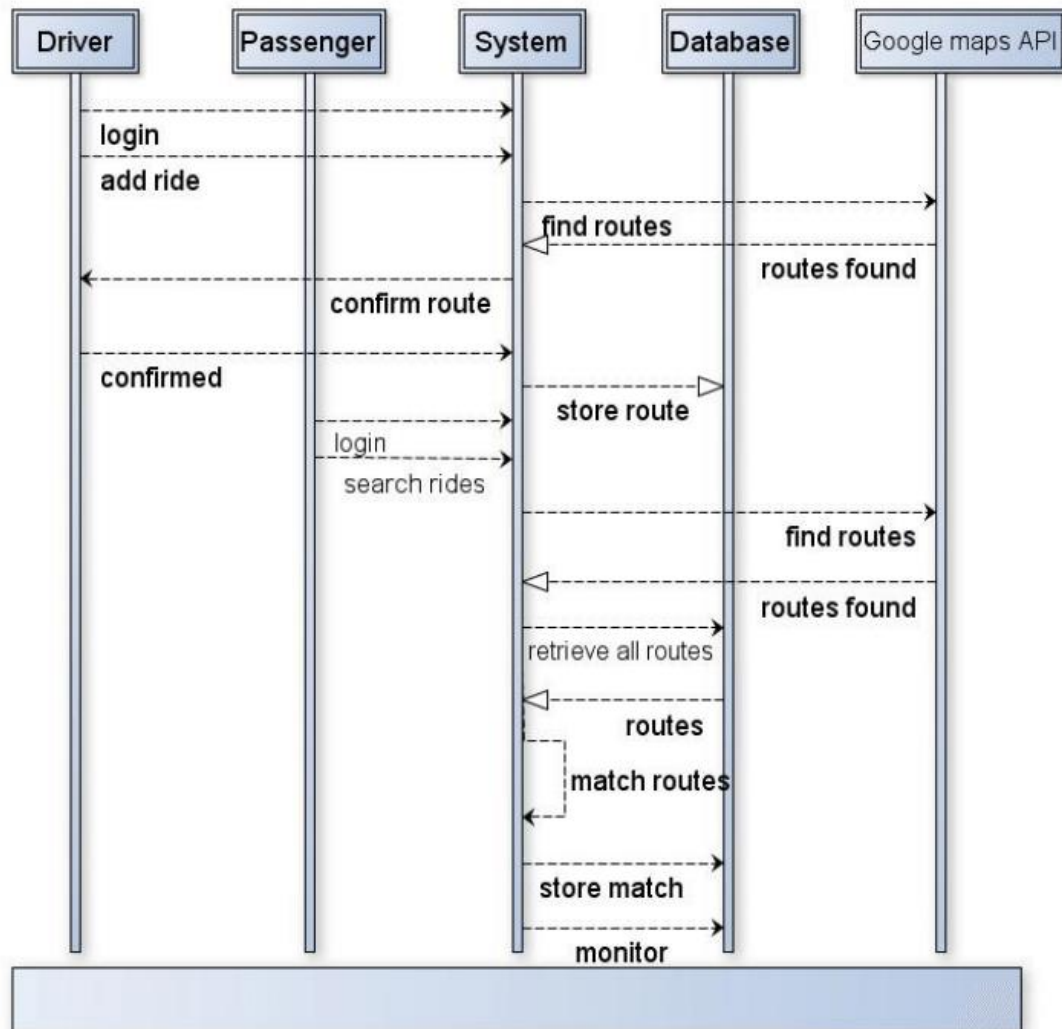
The existing systems are QuickRide and Blablacar, which are pretty good themselves but the main problem with them is that they let anybody pick a ride without any verification about them, so the safety of the customer is at stake. In our System we are the ones who have appointed all the drivers to ensure customers safety which is one of the main concerns in cab sharing.

5. Proposed System Design

The proposed system is a dynamic car-sharing application. This application differs from others by that it finds nearest route on which cabs are available. First, you have to signup on the website by filling the signup form. For security purposes an email authentication is sent on the entered email id by click on which you finally get registered on the website. Now, you can login into our website and we have a profile page which consists of your username, emailed and password field is hidden. You can edit all these fields as and when you like from the profile page itself. The user can search the cabs from search section available in our website the map on the page will exactly show the route through which the driver will take you and number of seats left to book along with details of the driver such as his contact number, name, etc. will be present.

The unique thing about our website is that you can search to check the availability of cabs on any particular route without signing in as well but to get the driver details and contact number you need to sign in. Hence, you can check from anywhere in the world anytime what cabs are available on any particular route at any given point of time.

The following image displays the flow of our website:

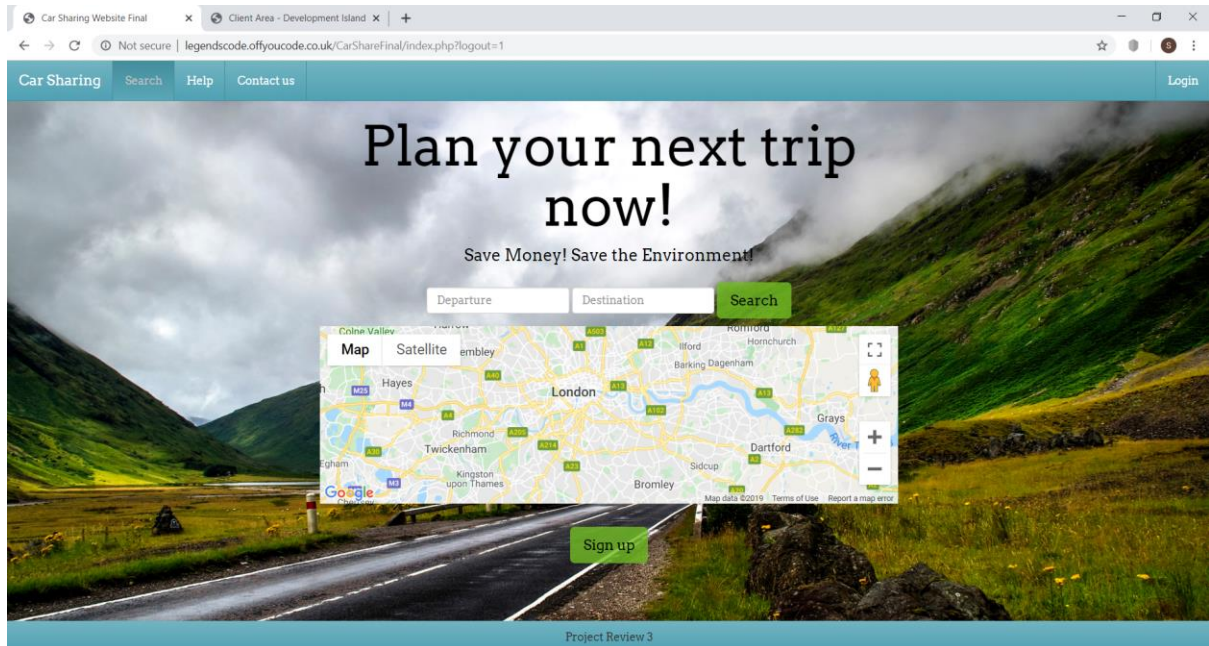


6. Modules Involved

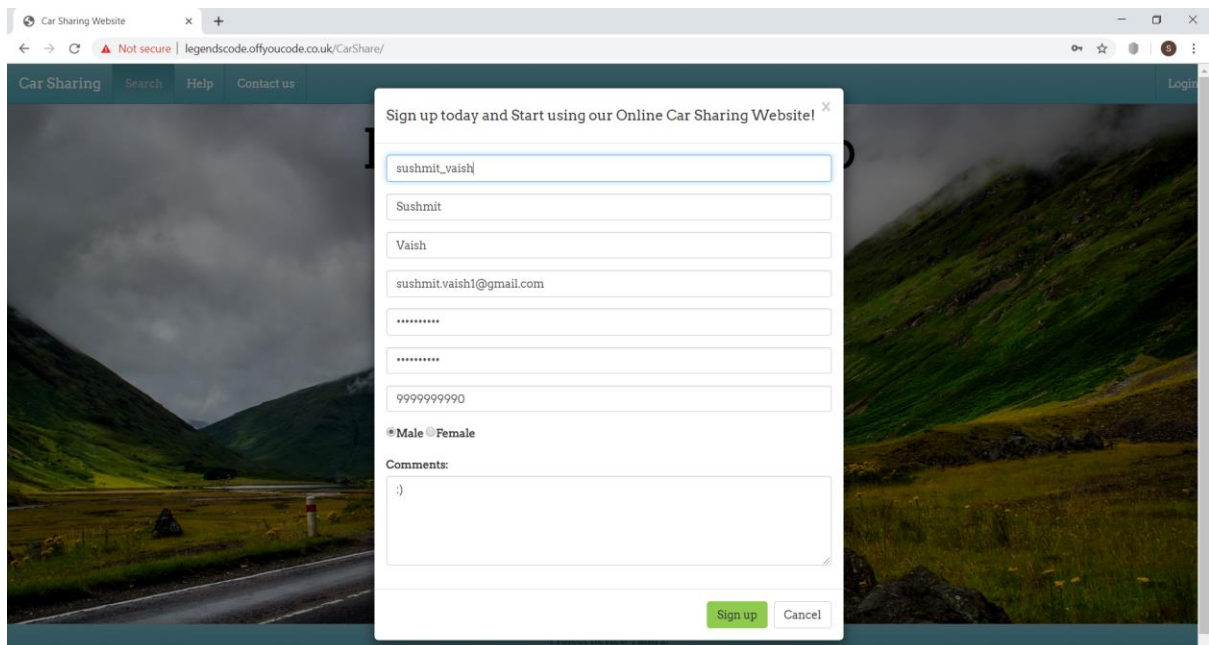
- Signup & Login Module – So that drivers can signup and login to add trips and users can signup and login to view the cabs available on their desired route. The driver can also edit the trip if he/she wants to change the trip.
- The Landing Page – It consists of the maps and the search bars consisting of departure and destination location. Anyone can type their desired departure and destination and how many cabs are present on a particular route along with driver details and number of available seats, etc.
- Add trips Page – This consists of the form that has to be filled to add the trips.
- Profile Page – It consists of all your details along with the link to edit these details.
- Profile Picture Page – Here, you can edit your profile pics as well.

7. Results

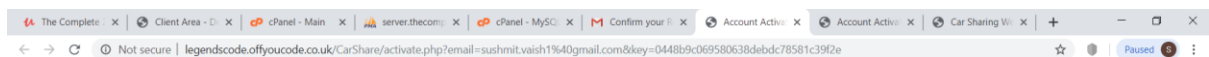
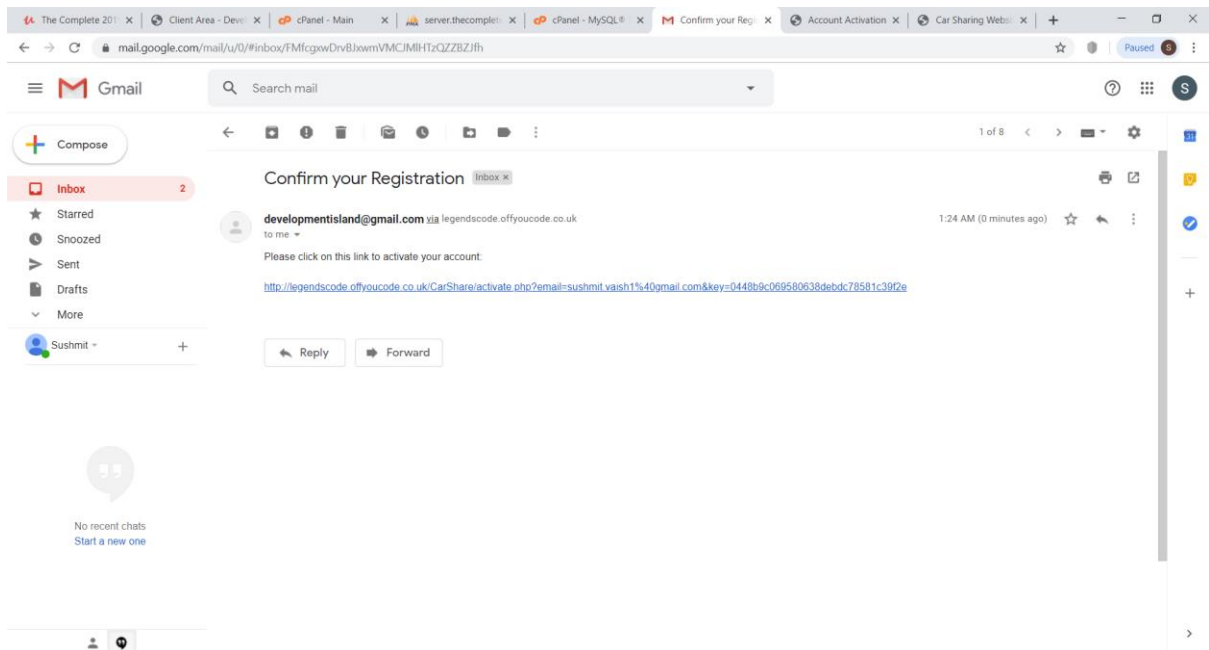
Landing Page



Signup Form



EMAIL AUTHENTICATION



Account Activation

Your account has been activated.

[Log in](#)

LOGIN PAGE

Car Sharing Website Final

Client Area - Development Island

legendscode.offyoucode.co.uk/CarShareFinal/index.php?logout=1

Car Sharing Search Help Contact us Login

Login:

sushmit.vaish1@gmail.com

☐ Remember me [Forgot Password?](#)

Register Login Cancel

Sign up

Project Review 3

ADD TRIPS FORM

My Trips

Client Area - Development Island

legendscode.offyoucode.co.uk/CarShareFinal/mainpageloggedin.php

Car Sharing Search Profile Help Contact us My Trips sushmit_vaish Log out

New trip:

Map Satellite

London

Departure

Destination

Price

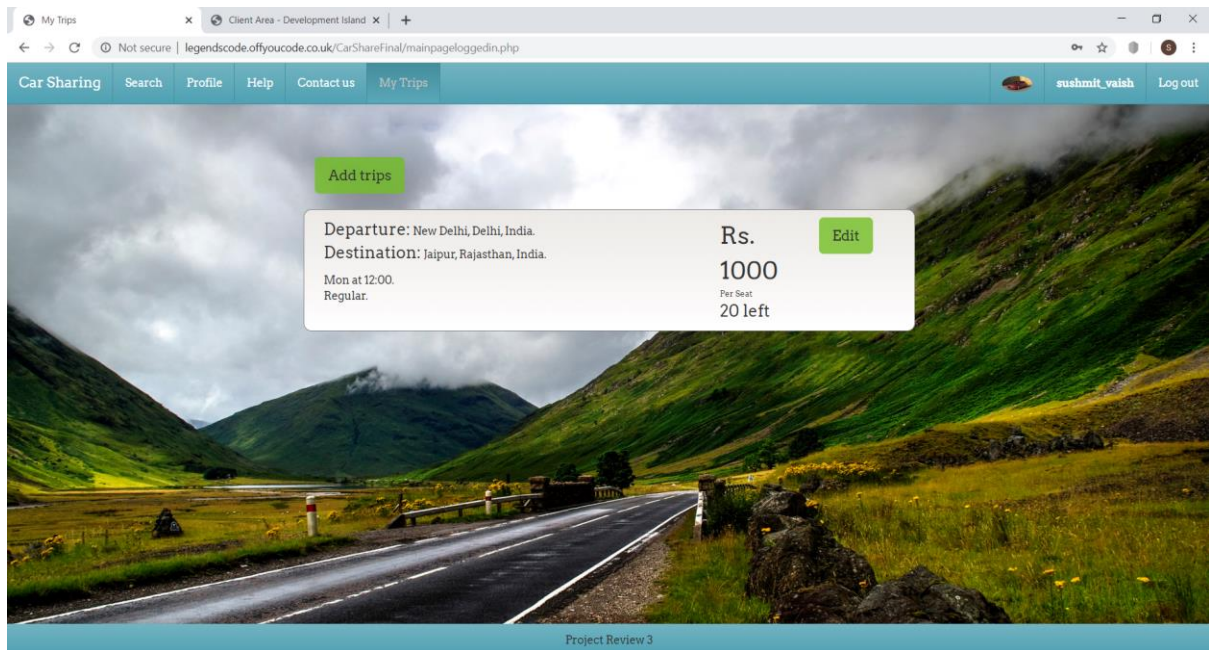
Seats available

☒ Regular ☐ One-off

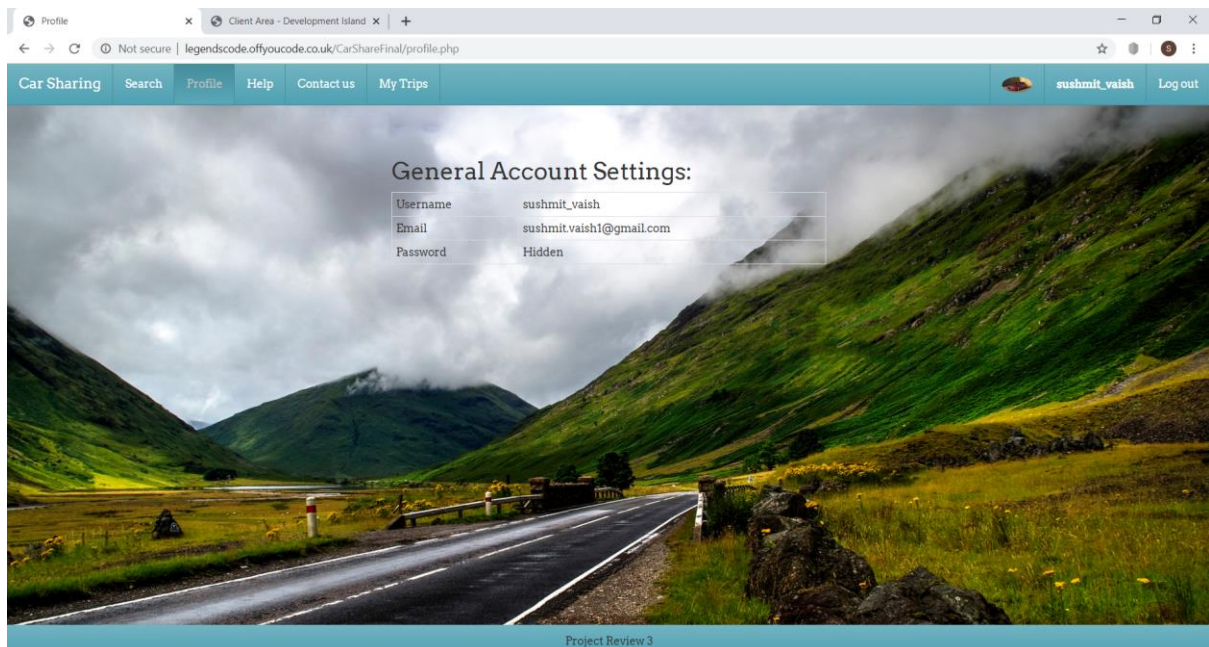
Create Trip Cancel

Project Review 3

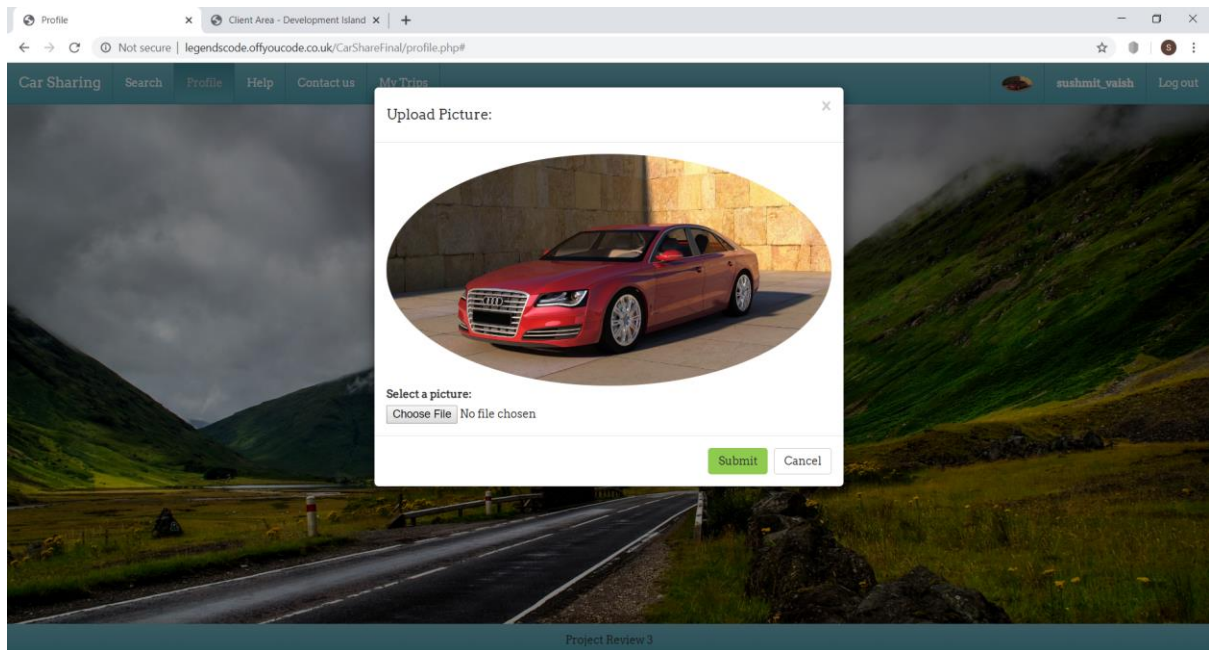
AFTER ADDING TRIPS



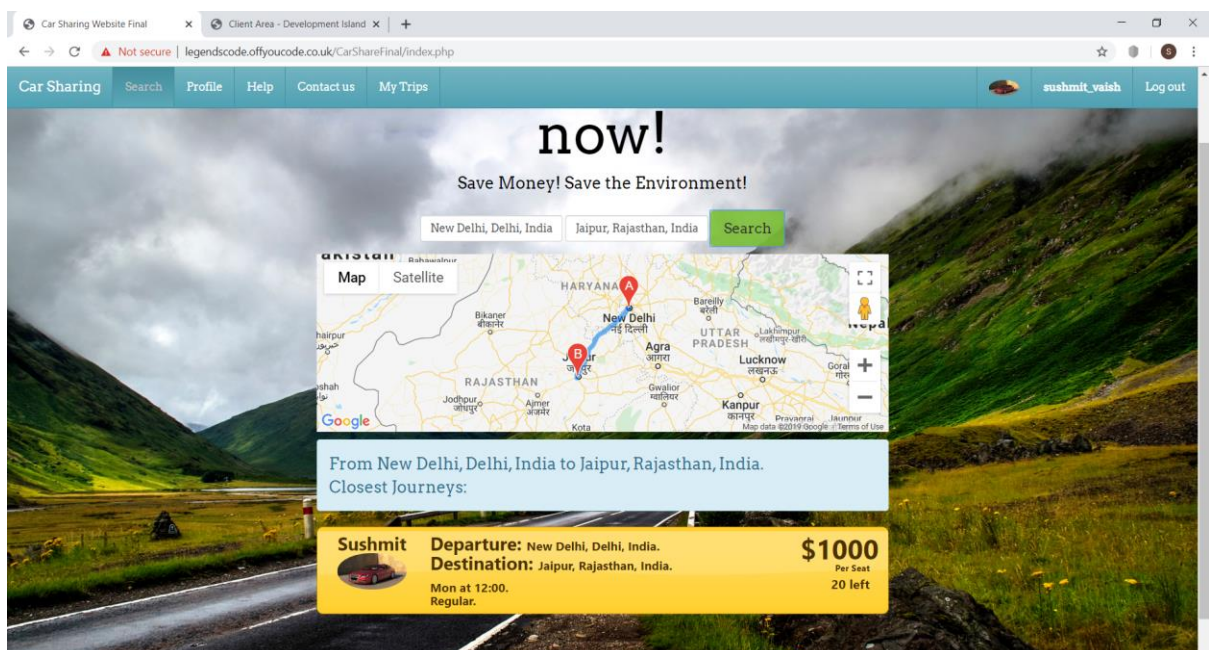
PROFILE PAGE



CHANGING PROFILE PICTURE



SEARCH DEMO



DATABASE SCREENSHOTS

The first screenshot shows the phpMyAdmin interface with the 'users' table selected. The table structure is displayed, and the query results show 3 rows of data. The second screenshot shows the same interface with the 'users' table selected, but the query results are empty.

Table: users

user_id	first_name	last_name	username	email	password	activation	activation2	gender
4	Sushmit	Vaish	sushmit	sushmit.vaish@gmail.com	21d632d5d9e90c684a007e40e48df1b4cd7c80c63a362c0...	activated	NULL	male
5	Vansh	Arora	vansh	vansha10@gmail.com	0897ad3d2b9c3a992369a63eb012db8e4e13fbbd033771e2c...	activated	NULL	male
6	Sushmit	Vaish	sushmit_vaish	sushmit.vaish1@gmail.com	21d632d5d9e90c684a007e40e48df1b4cd7c80c63a362c0...	activated	NULL	male

Table: users

all	password	activation	activation2	gender	phonenumber	moreinformation	profilepicture
sushmit.vaish@gmail.com	21d632d5d9e90c684a007e40e48df1b4cd7c80c63a362c0...	activated	NULL	male	9999999999	Hi I am a student	NULL
vansha10@gmail.com	0897ad3d2b9c3a992369a63eb012db8e4e13fbbd033771e2c...	activated	NULL	male	9999999998	-)	NULL
sushmit.vaish1@gmail.com	21d632d5d9e90c684a007e40e48df1b4cd7c80c63a362c0...	activated	NULL	male	9999999991	-)	profilepicture/4fcabf3395c99b97c5a3b62f6284abb

Profile Client Area - Development Island cPanel - Main server.thecompletewebhosting.com

server.thecompletewebhosting.com:2083/cpsess9738772019/3rdparty/phpMyAdmin/sql.php?server=1&db=legends1_carshare&table=carsharetrips&pos=0

phpMyAdmin

Recent Favorites

- information_schema
- legends1_carshare
 - New
 - carsharetrips
 - forgotpassword
 - rememberme
 - users

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds)

SELECT * FROM 'carsharetrips'

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table

+ Options

	trip_id	user_id	departure	departureLongitude	departureLatitude	destination	destinationLongitude	destinationLatitude	price	seatsavailable	regular
<input type="checkbox"/>	1	6	New Delhi, Delhi, India	77.209	28.6139	Jaipur, Rajasthan, India	75.7873	26.9124	1000	20	Y

Check all With selected Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

Profile Client Area - Development Island cPanel - Main server.thecompletewebhosting.com

server.thecompletewebhosting.com:2083/cpsess9738772019/3rdparty/phpMyAdmin/sql.php?server=1&db=legends1_carshare&table=carsharetrips&pos=0

phpMyAdmin

Recent Favorites

- information_schema
- legends1_carshare
 - New
 - carsharetrips
 - forgotpassword
 - rememberme
 - users

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

departureLatitude	destination	destinationLongitude	destinationLatitude	price	seatsavailable	regular	date	time	monday	tuesday	wednesday	thursday	friday	saturday	sunday
28.6139	Jaipur, Rajasthan, India	75.7873	26.9124	1000	20	Y	NULL	12:00	1						

Console

8. Conclusion

We have developed a cab sharing website by incorporating various web technologies like JavaScript, HTML, CSS, MySQL, PHP, AJAX. The website that we have developed has the following features for both the end user, driver partner and admin.

1. A website that would save time and money of a user and allow him to share cabs with others for going from one place to another.
2. The user can be sure of using our website because an email authentication is needed for him to register while logging in for the first time and also for the forgot password section so that nobody else can login by impersonating him/her.
3. The passwords are also safe as even the admin does not have the actual password directly. The password is stored in the database after getting encrypted through SHA algorithm.
4. The admin account has the ability to add, delete or modify trips.
5. Any user can search for the price of the desired route but he cannot get the driver details until and unless he/she is logged in.

9. References (Include websites & research papers)

1. www.w3schools.com
2. IEEE Transactions on Information Forensics and Security
3. IEEE Signal Processing Society
4. <https://ieeexplore.ieee.org/document/8301554>
5. <https://ieeexplore.ieee.org/document/8062833>
6. <https://ieeexplore.ieee.org/document/8569315>
7. <https://ieeexplore.ieee.org/document/8576133>
8. <https://ieeexplore.ieee.org/document/7470240>
9. <https://ieeexplore.ieee.org/document/8418509>
10. <https://ieeexplore.ieee.org/document/8374829>
11. <https://ieeexplore.ieee.org/document/8784078>