K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

Roll no: 1911007
Batch: A1
Group no:4
Experiment No 3

Title: Describe stepwise Implementation details of mini project.

Objective:

To understand the implementation process of the project.

Expected Outcome of Experiment:

Course Outcome	After successful completion of the course students should be able to
CO3	Implement and test the hardware/ software algorithms to meet the desired specifications.
CO4	Analyze, interpret results and correspondingly modify the designed system to get the desired results.

Books/ Journals/ Websites referred:

Mention the books/ Websites / blogs referred

1.
2.
3.

Introduction:

Describe the need of this stage in project

Title of Mini Project: < To be filled in by the student>

Team Members: < To be filled in by the student>

1. Darshil Mehta 1911007
2. Yash Dedhia 1911008
3. Ishit Fariya 1911010

Implementation details :
Students are supposed to write the backend and frontend all details about the database name and attributes, fields etc

Eg: API as an always-on software sitting on a server, which acts as the interface between the front end, the web javascript app on the browser in this example, and other code which manipulates data and accesses a database. Access to the API from the JavaScript front end is done through the HTTP protocol. In the case of a web application, the API returns JSON, a specific data format to transfer specific information. Pushing data to the API will also be usually done with JSON.The back end can be built with Java or Python, built with JavaScript libraries, specifically, NodeJS and the back end services that the web application depends for accessing database

Github Link:

https://github.com/Darshil-Mehta/Parking-Slot-Management-System.git

Functions Implemented : Describe major and minor functions

We started the implementation within the Ecplise IDE and made a dynamic web project folder. Later we downloaded all the .jar files that included the jstl-1.2.jar and mysql-connector-java-8.0.23.jar to connect the frontend work to the backend database that is mysql.

We then started making .jsp files for each and every page in our web application and made the corresponding servlets or each page and also the dao classes that are needed for exchanging data with the database and the bean class with all the getter and setter methods for exhanging the user input data.

We first made the client login page and admin login page and a registeration page for the client as well with the update profile page for updating any value in the profile

We then made the pages that the web server would respond on successful login of client/admin and made the list of features they would have

Then we targeted each feature that the client/admin has.

We made the respective pages like profile info page, client booking pages and the current bookings page for the client

We then started making the change slot rates and book a short term pass for the admin that would take one single input and would make the related changes to the database.

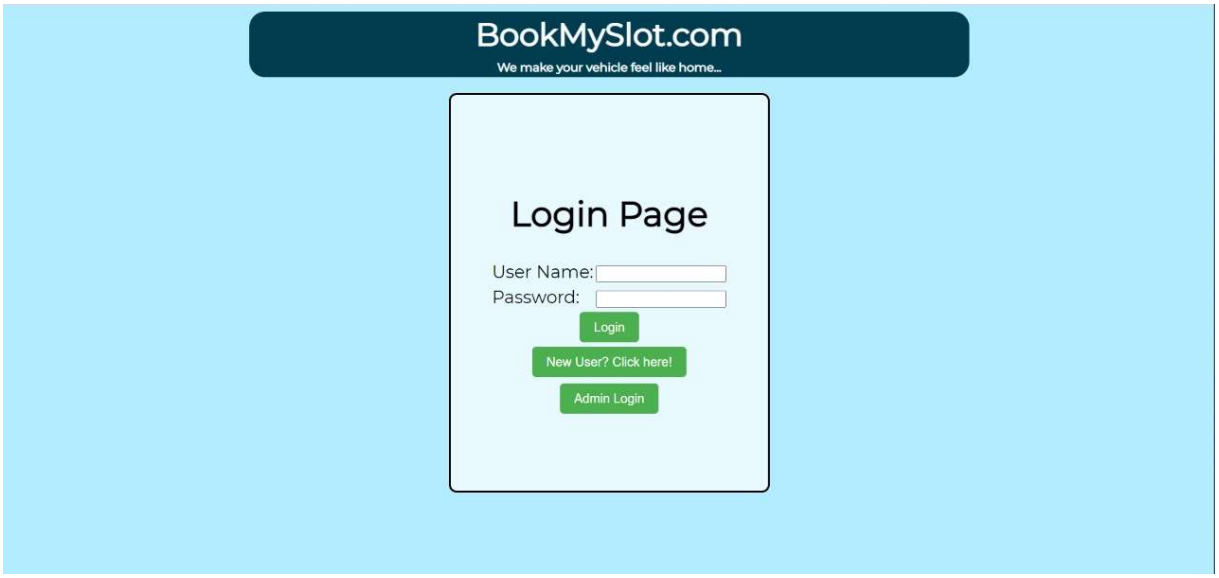
After this we created the view current bookings page that would fetch the bookings of any customer and show it in a tabular form to the admin

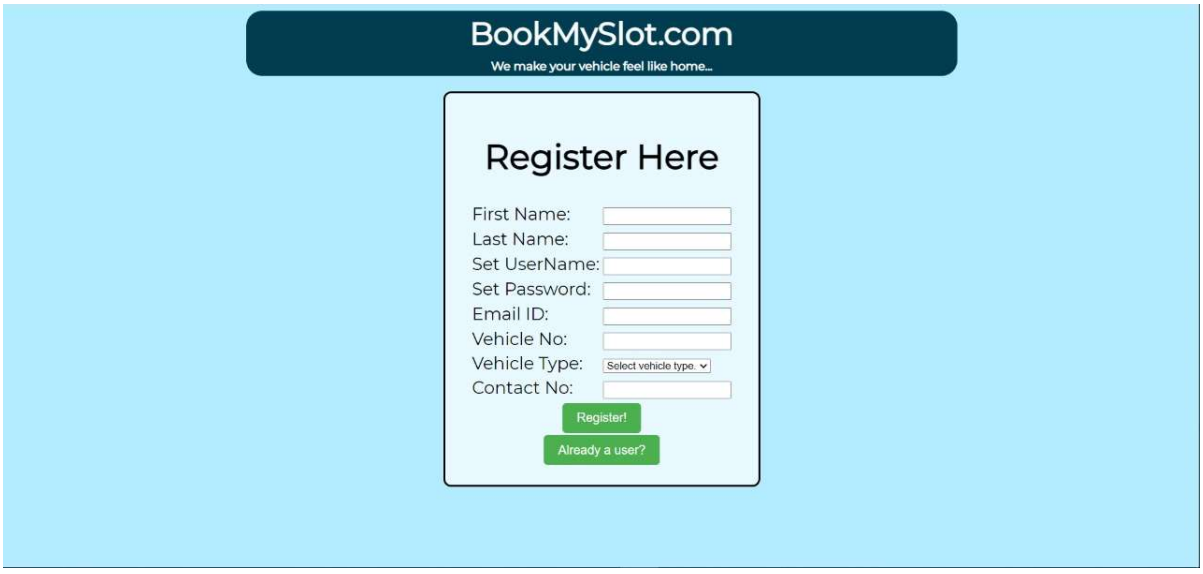
Then we continued with the manual removal of any bookings by the admin once it is over and generation of the pdf that would have all the information regarding a specific booking number

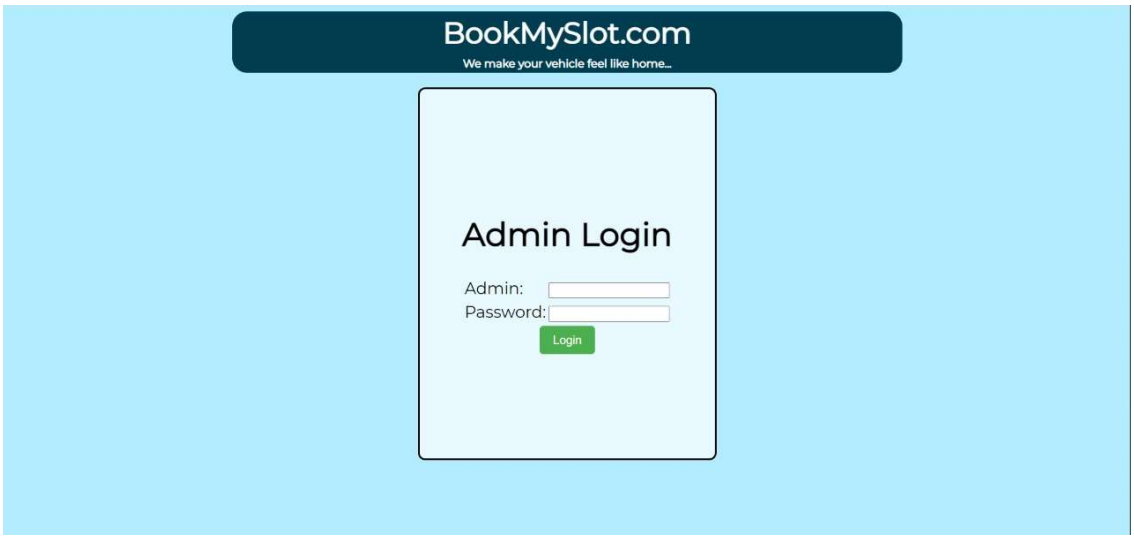
We used the itext-pdf.jar for the same that helped us create a pdf file of a booking once it is marked over within the database

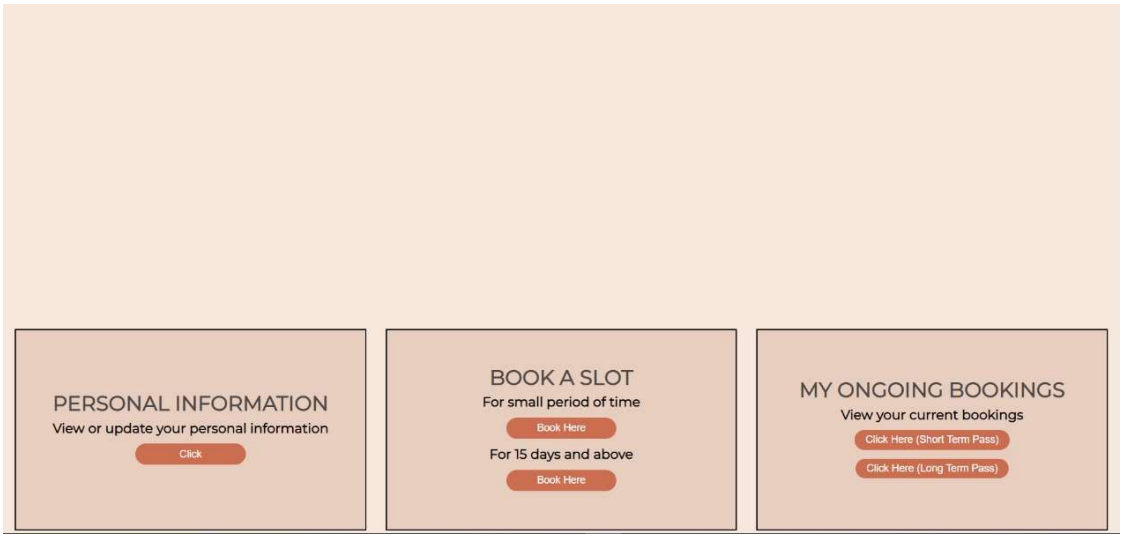
User interface :

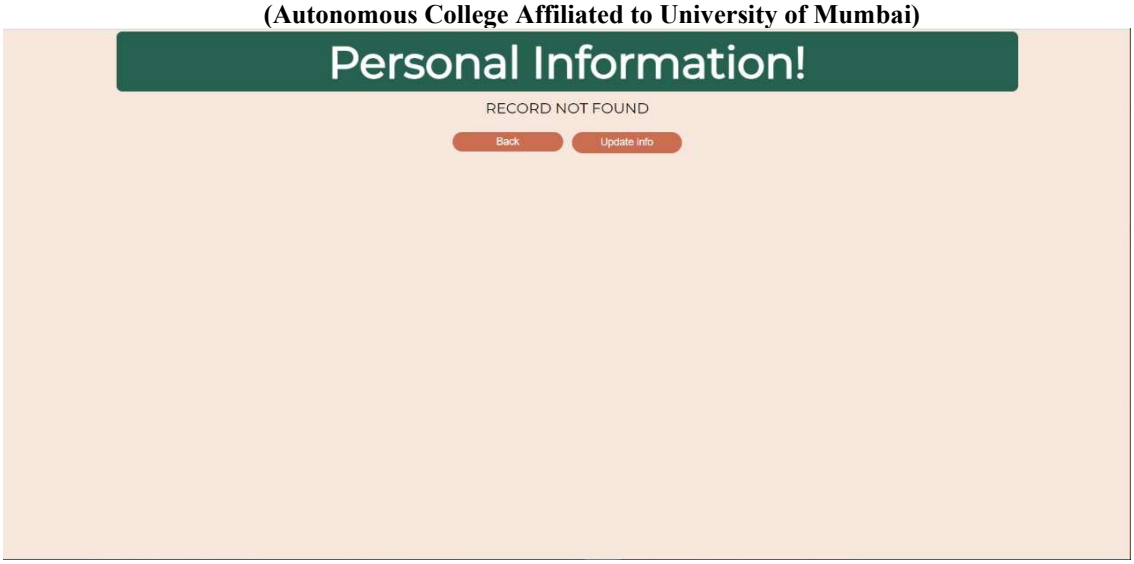
Implementation method : Write the way you have implemented different modules and put the screenshots after implementation

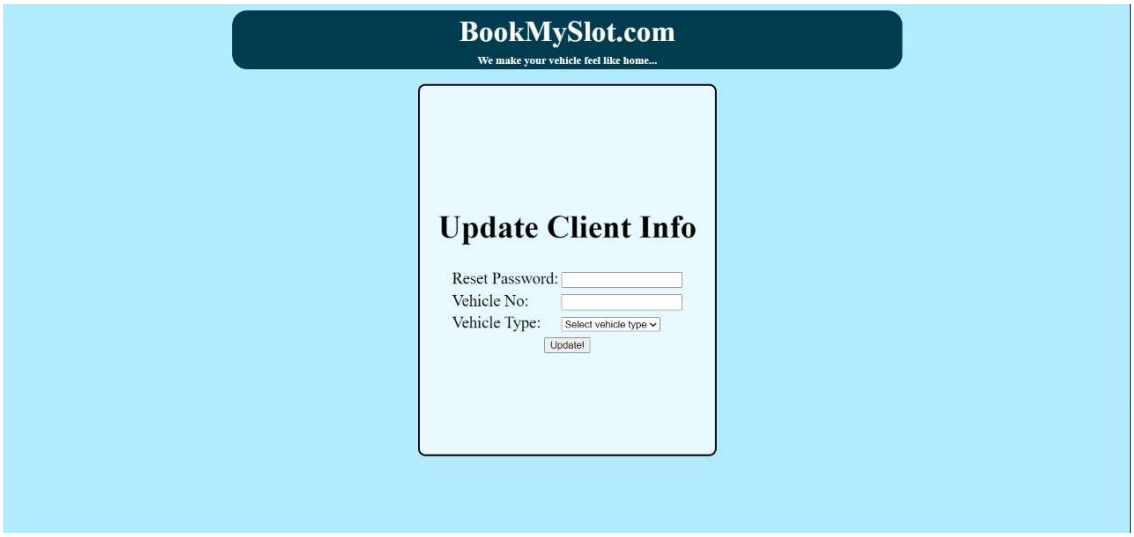


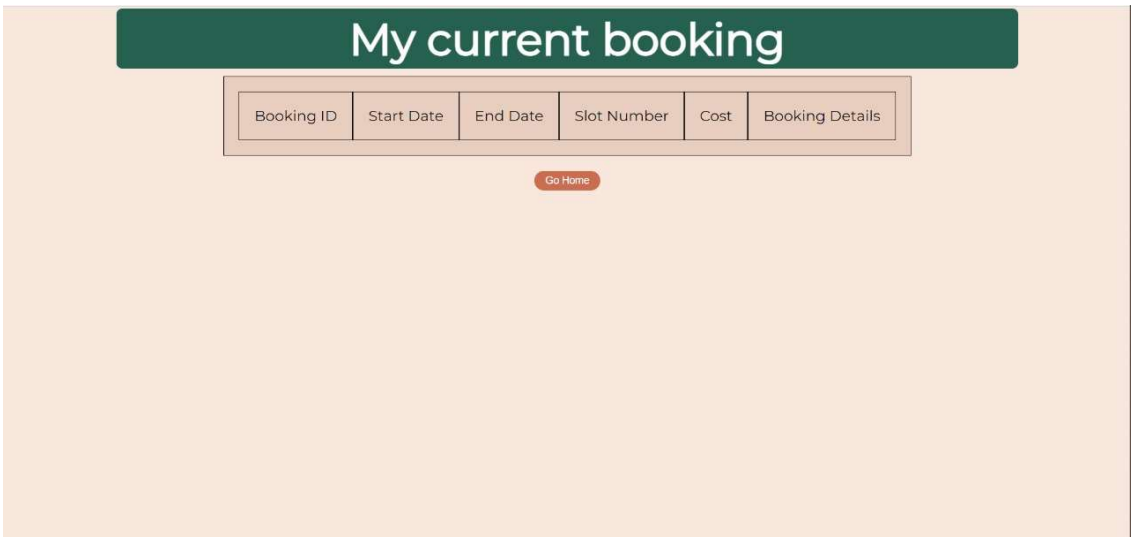


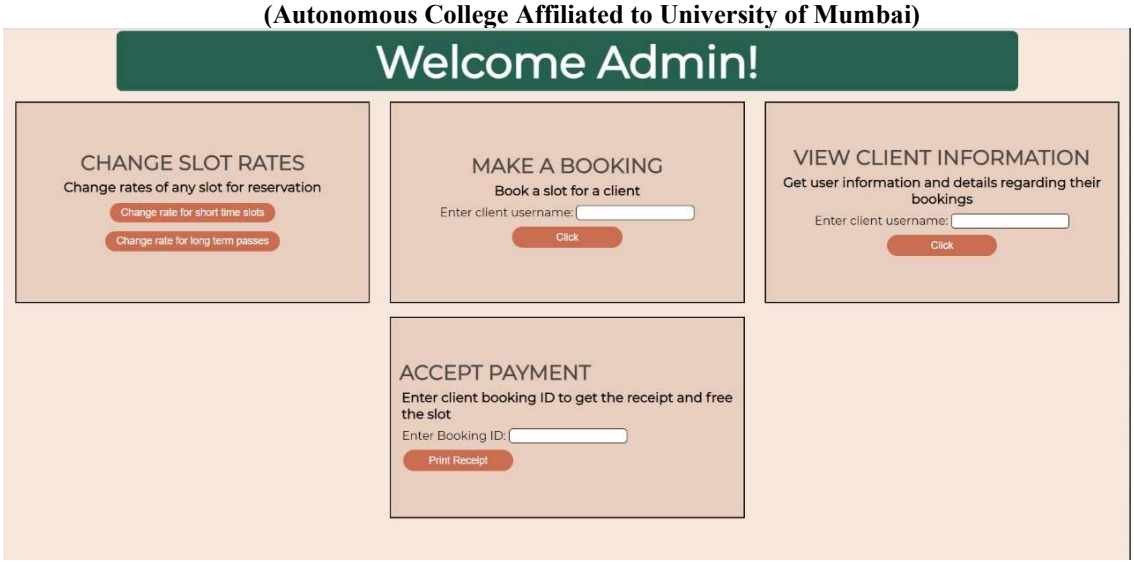

BookMySlot.com
We make your vehicle feel like home...
Admin Login
Admin:
Password:
Login

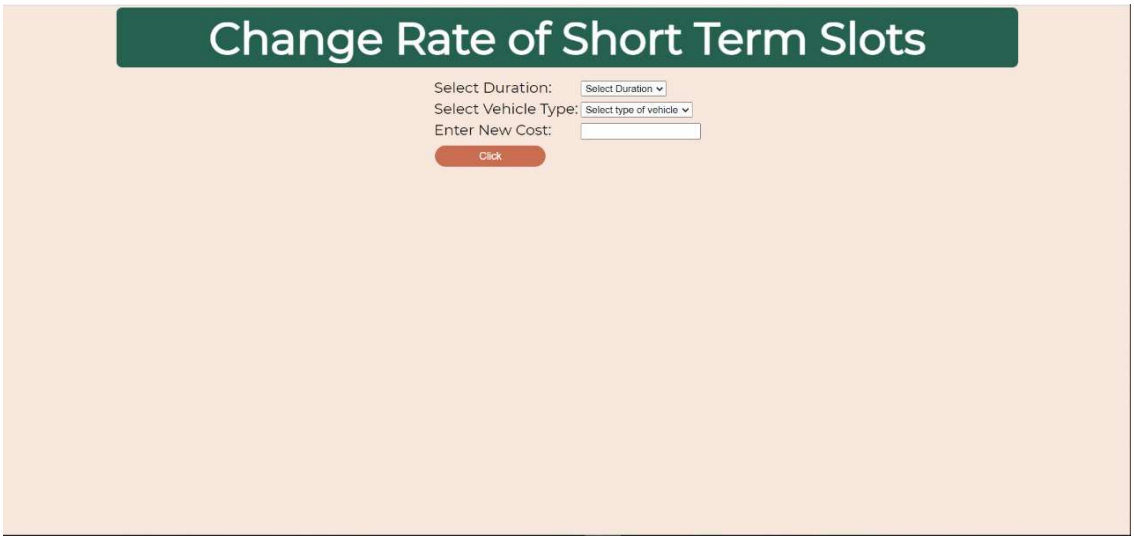

PERSONAL INFORMATION
View or update your personal information
Click
BOOK A SLOT
For small period of time
Book Here
For 15 days and above
Book Here
MY ONGOING BOOKINGS
View your current bookings
Click Here (Short Term Pass)
Click Here (Long Term Pass)

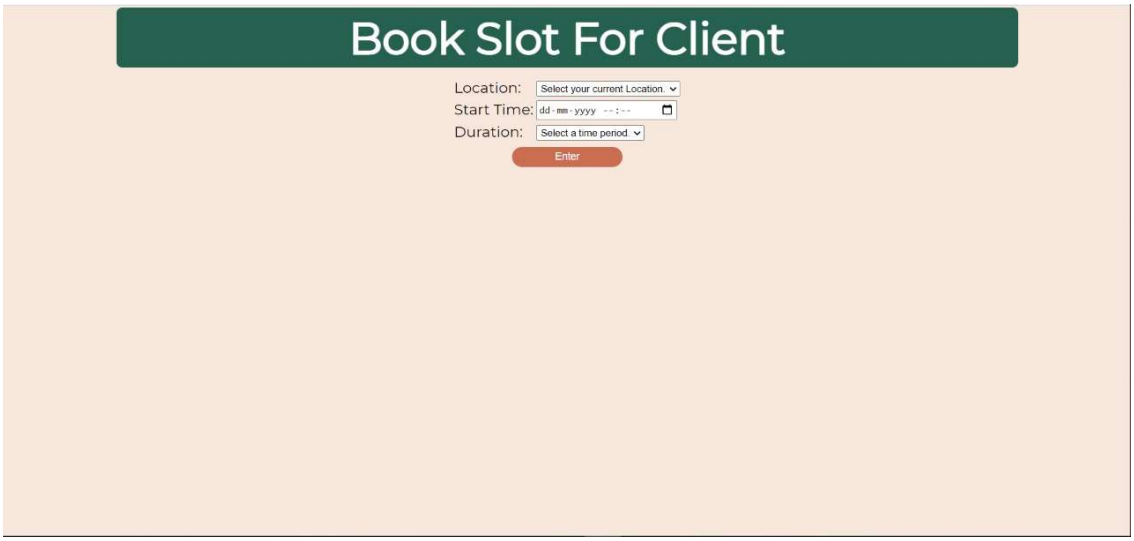

Personal Information!
RECORD NOT FOUND
Back
Update info

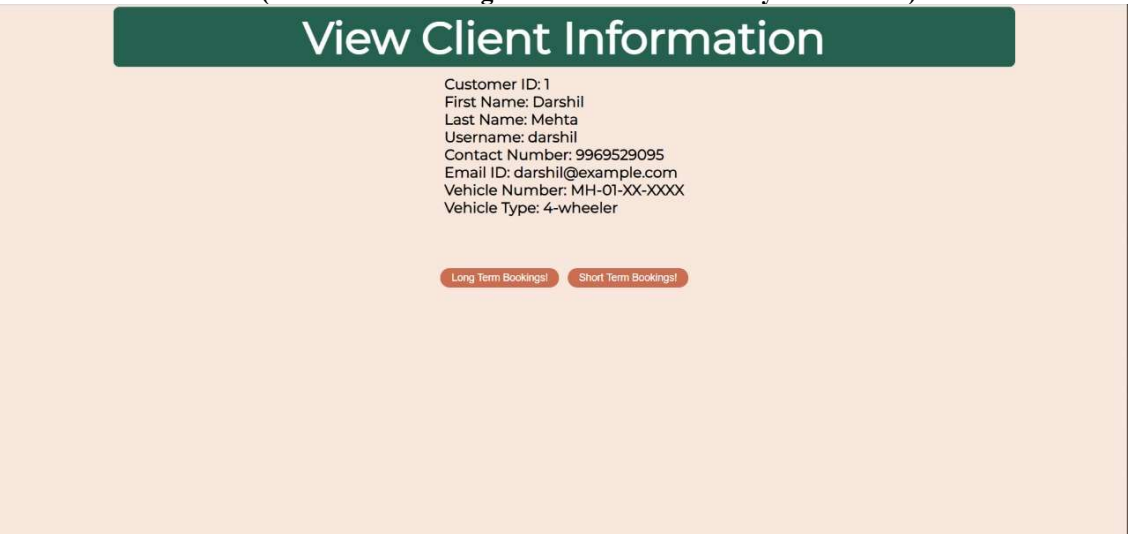

BookMySlot.com
We make your vehicle feel like home...
Update Client Info
Reset Password:
Vehicle No:
Vehicle Type:
Select vehicle type
Update!


My current booking
Booking ID
Start Date
End Date
Slot Number
Cost
Booking Details
Go Home


Welcome Admin!
CHANGE SLOT RATES
Change rates of any slot for reservation
Change rate for short time slots
Change rate for long term passes
MAKE A BOOKING
Book a slot for a client
Enter client username:
Click
VIEW CLIENT INFORMATION
Get user information and details regarding their bookings
Enter client username:
Click
ACCEPT PAYMENT
Enter client booking ID to get the receipt and free the slot
Enter Booking ID:
Print Receipt


Change Rate of Short Term Slots
Select Duration:
Select Duration
Select Vehicle Type:
Select type of vehicle
Enter New Cost:
Click


Book Slot For Client
Location:
Select your current Location.
Start Time:
dd-mm-yyyy --:--
Duration:
Select a time period
Enter


View Client Information
Customer ID: 1
First Name: Darshil
Last Name: Mehta
Username: darshil
Contact Number: 9969529095
Email ID: darshil@example.com
Vehicle Number: MH-01-XX-XXXX
Vehicle Type: 4-wheeler
Long Term Bookings!
Short Term Bookings!