Car Rental Booking Project 🚗

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Submitted to :

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(ExcelR Institute)

Objective : -

The primary goal of this project is to offer a user-friendly, efficient, and secure platform to rent a car.

Users can able to book cars from various cities listed on the platform. A user can choose a car by reviewing its specifications listed in the "Cars" section.

Functionalities Provided : -

- Providing search functionality of the cars based on the city selected.
- Managing the information of the cars according to the City.
- Monitoring the bookings done.
- Providing all the Testimonials of previous users, to get a point of view.
- A Form is available, where the user can able to provide his valuable feedback.
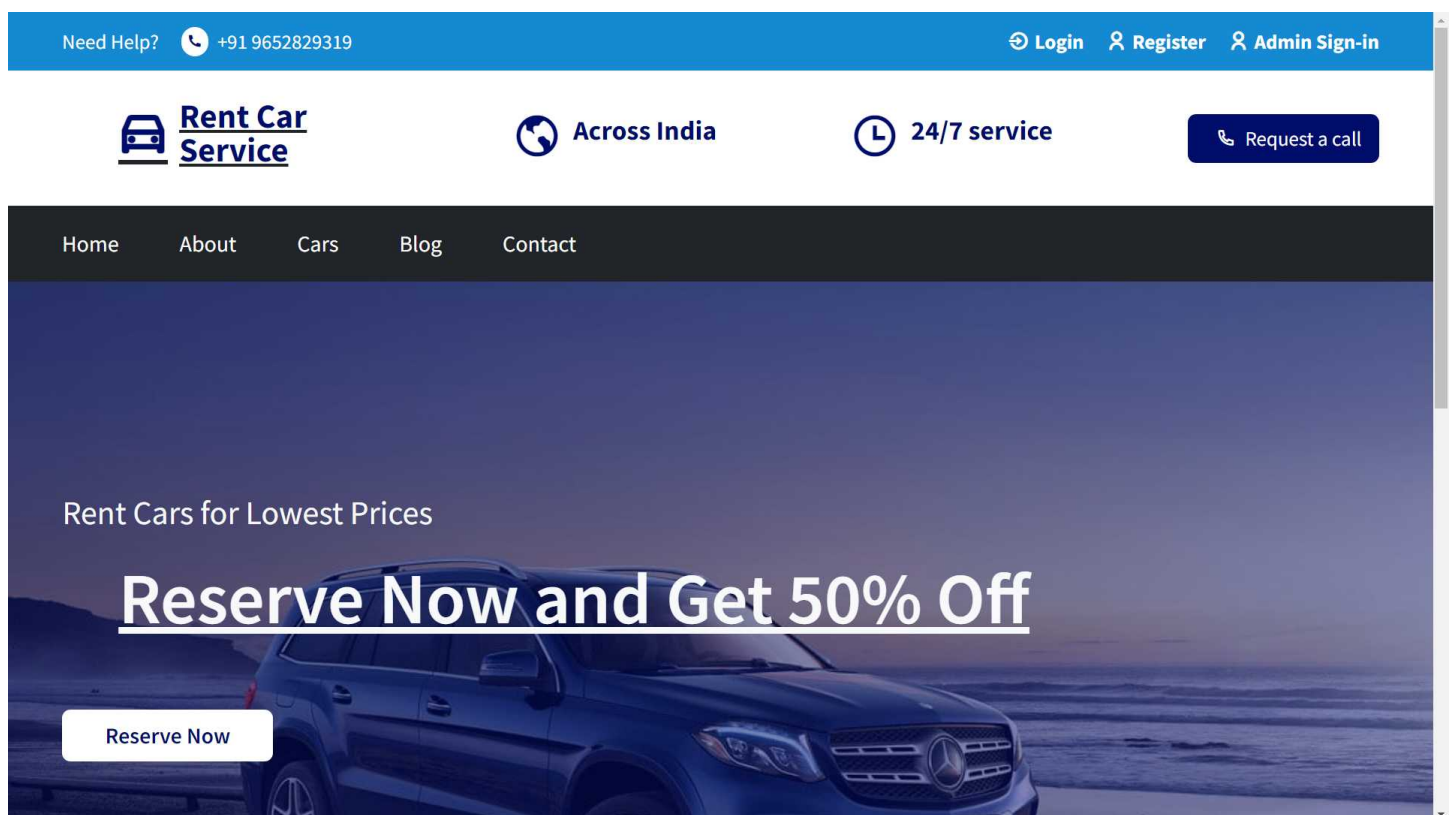- 24/7 contact service.

Diving into Project

Introduction : -

A User can visit our website to book a car for self-ride by providing details of the ride, which were asked there.

providing the impressive UI, a user can enjoy in the process of booking the car.
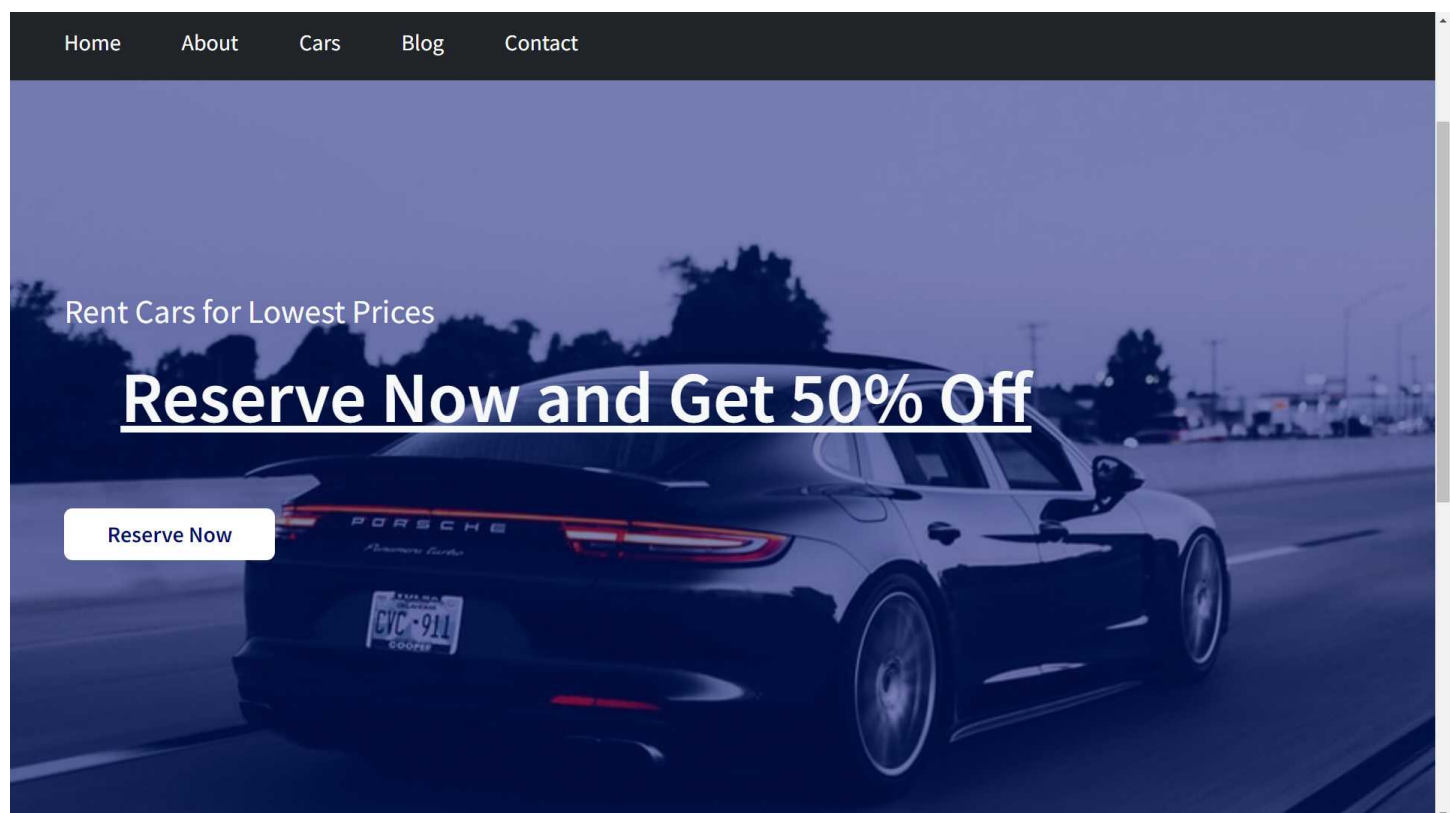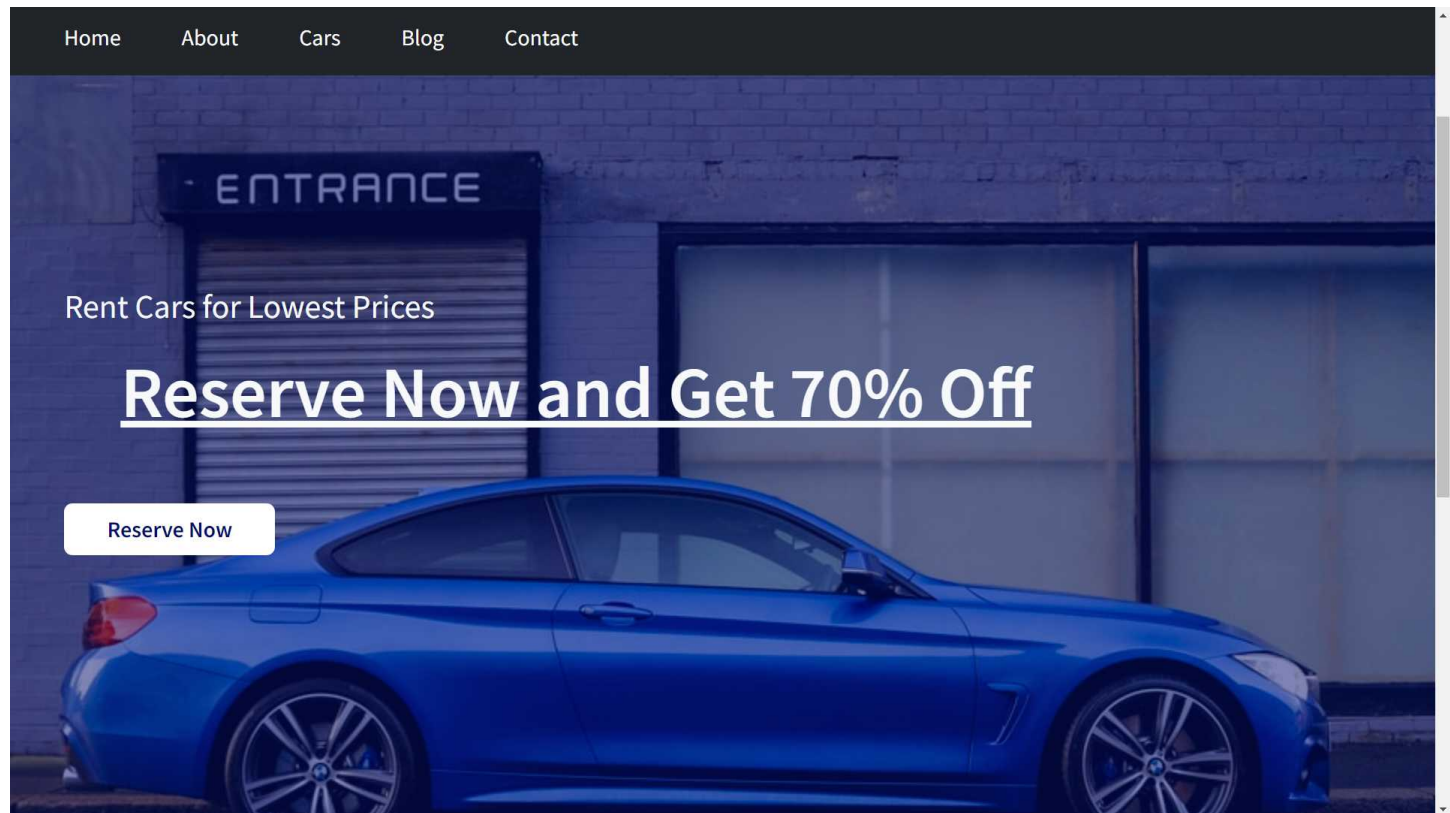
By successfully entering our website, A user can able to watch the Eye-feasting " **Home** " page, as below

Home Section

Header Part includes Contact number of our office, Location where we present, time in which we available, and 3 buttons to perform further actions.

Just below that, mesmerizing animated **hero slider**

Rent Cars for Lowest Prices

Reserve Now and Get 50% Off

Reserve Now

Below this, can see insights **Footerbar**, which contain office address, contact info.

Rent Car Service

Our car rental application makes it easy to find and rent a car for your next trip. With our app, you can browse a wide selection of cars from different rental companies, compare prices, and book your reservation all in one place.

Quick Links

About

Privacy Policy

Car Listing

Blog

Contact

Head Office

Bengaluru, India

Phone: +91 9652829319

Email: ourcars@gmail.com

Office Time: 24 hrs service
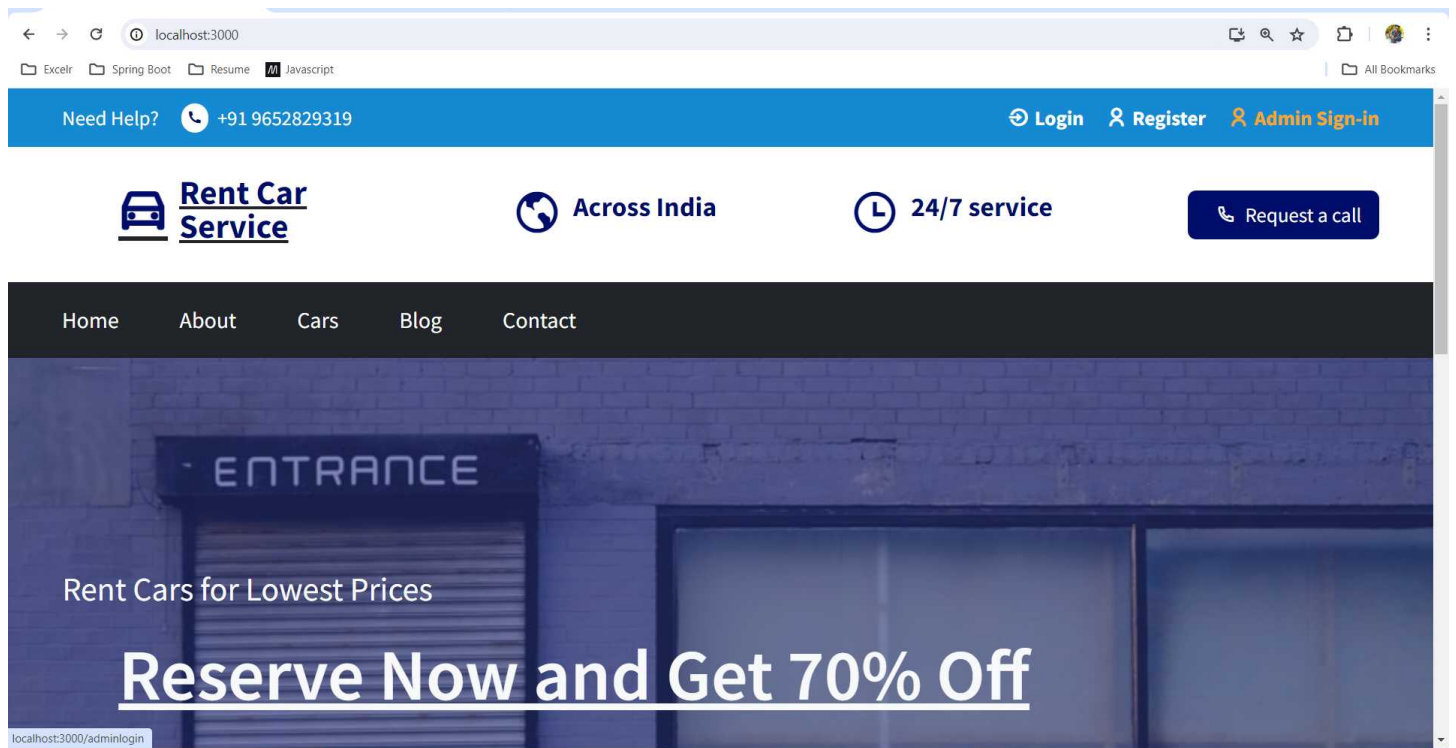
Newsletter

Subscribe our newsletter

Email

Let's first witness the Admin role in the website, who is responsible for all valuable insights in the website.

Admin Sign-in

After clicking the " Admin Sign-in " button at the Top-right corner, which is for admin actions.

Then the admin is redirected to the Sign in page as below.

Home   About   Cars   Blog   Contact

Admin Log-in
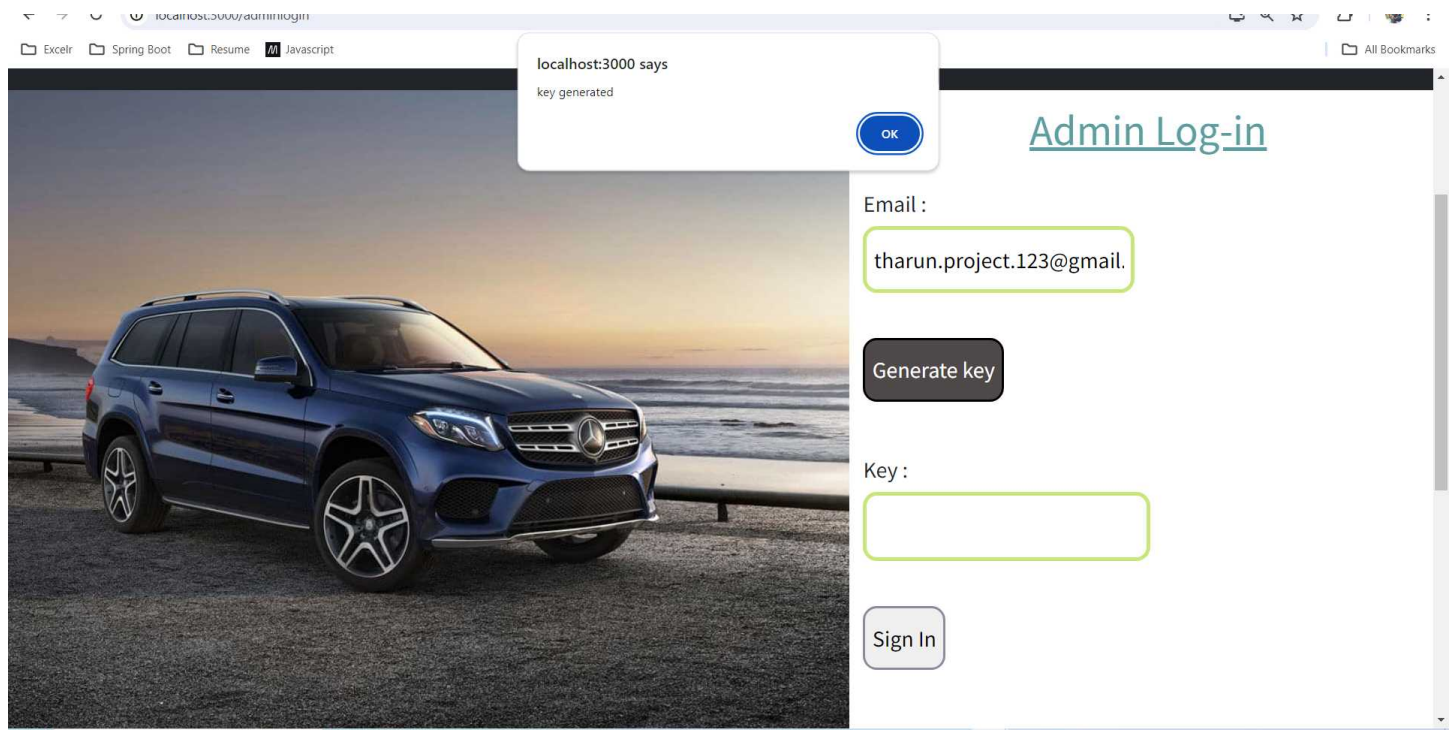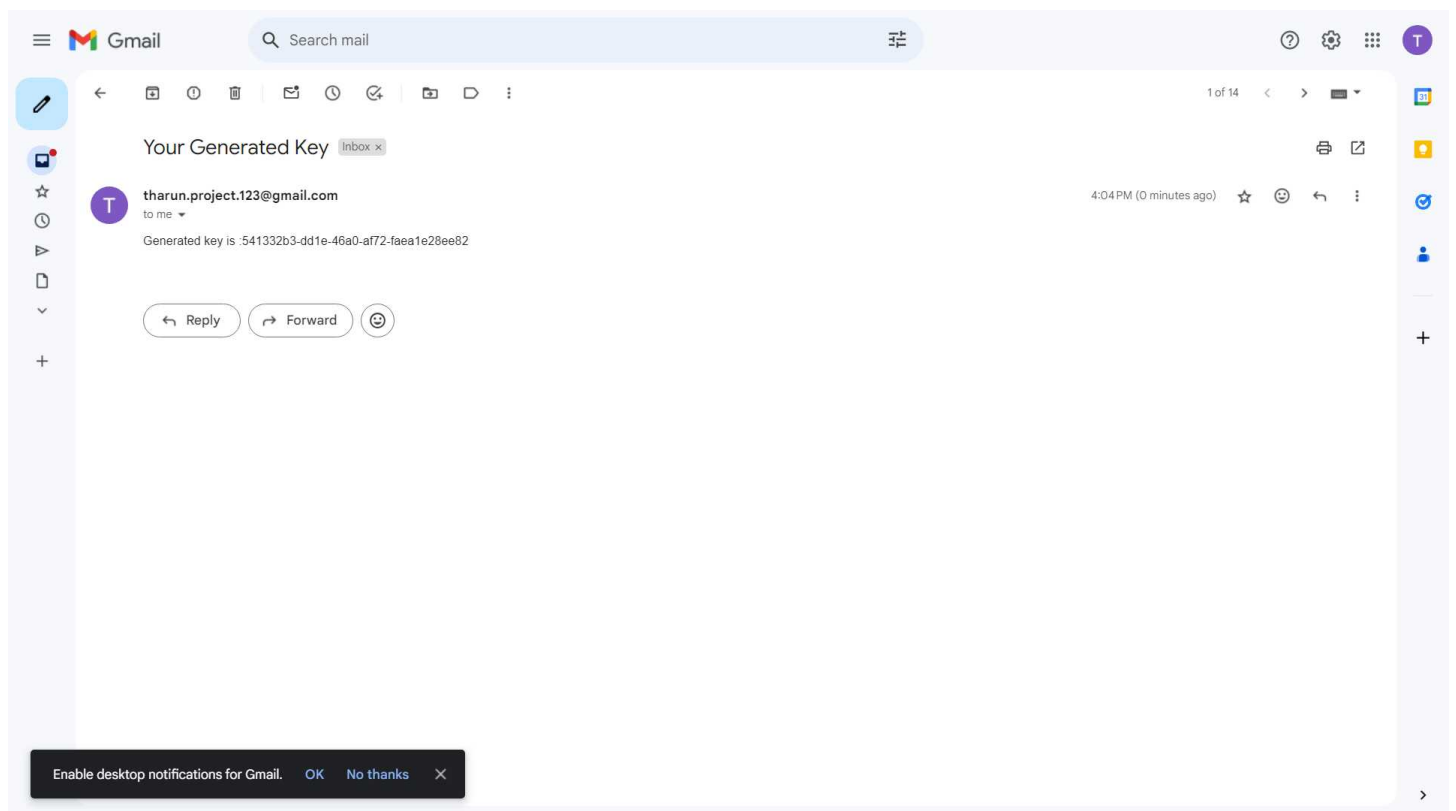
Email :

Generate key

Key :

Sign In

Here the admin is required to enter the **email**, which is assigned to him and after that should click " **Generate Key** " button to get the " Unique Key " to that respective mail.

The user will receive the **key**, if the Email in the database and entered one matches only.

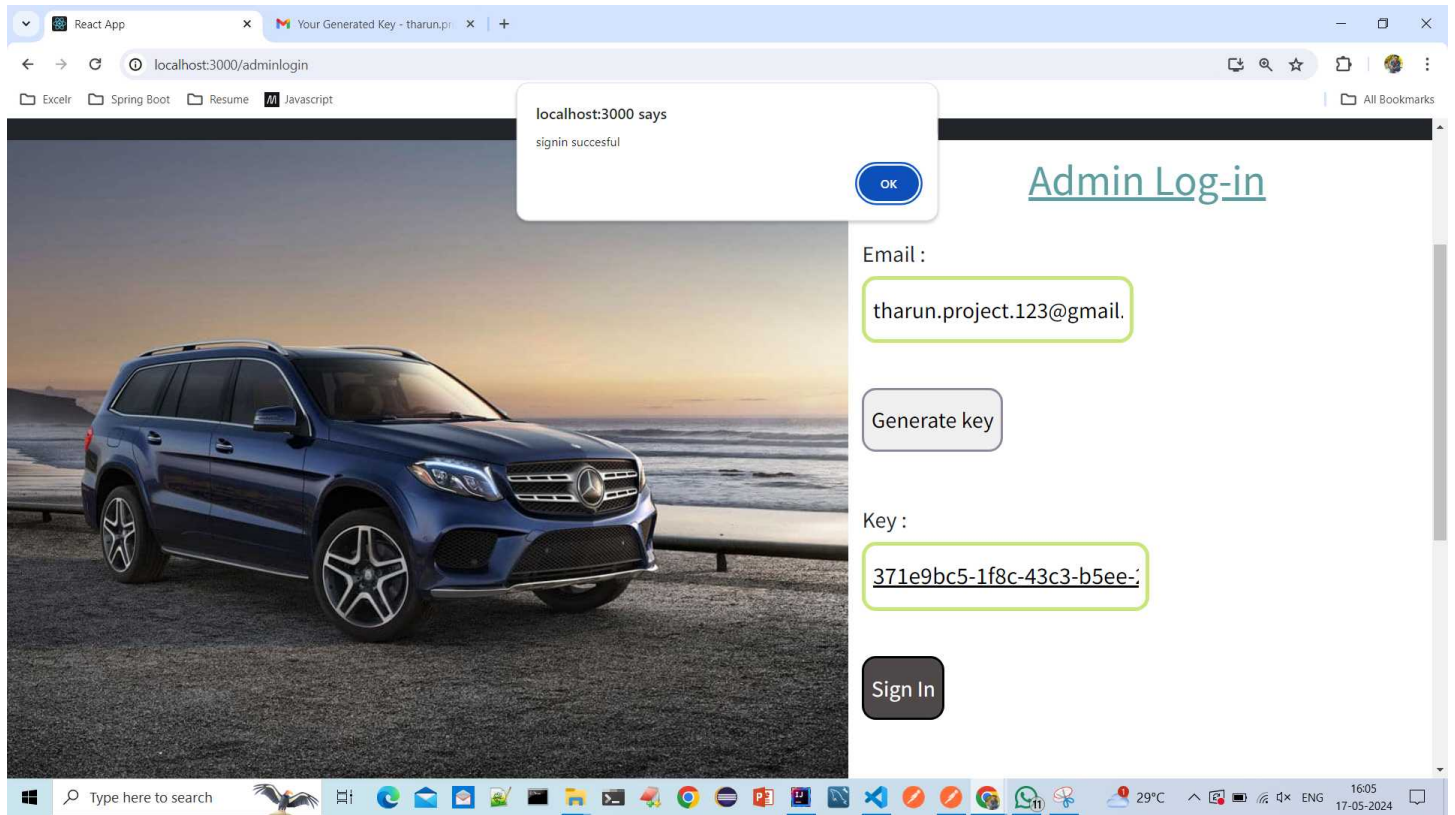Once matches, can see alert message " Key generated " as below.

The User will be receiving the key for the email as follows

That key should be entered in the respective " Key " column in Sign-in process and should click on " Sign in " button.

If the provided key matches with the key sent to the mail, then able to see an alert message saying " **sign in succesful** " on the screen.

After successful sign in, the user is redirected to work page, where the user can perform allowed actions.

Admin Activity

After succesful Login, the user can able to see the page as below

Welcome Admin !

Log-Out

Add Car

update Car

Delete Car

See All the Cars

Click

The User can able to **Add**, **Update**, **and Delete** the Car by providing necessary details.

Company : Company

Model : model

Color: Color

Year : 0

Rent_per_day : 0

City Id : 0

Add

update Car

Car Id : 0

Company : Company

Model : model

Color: Color

Year : 0

Rent_per_day : 0

City Id : 0

Submit

Welcome Admin !

Log-Out

Add Car

update Car

Delete Car

Enter Car Id : 0

Submit

See All the Cars

Click

For all the cars available in the database at that particular time, click the button below of " **See all Cars** " text. And the available cars is displayed as.

ID	Company	Model	Color	Year	Rent Per Day	City
10	Tata	SUV	Silver	2022	8000	Chennai
11	Mahindra	Xuv 3X	Grey	2024	3000	Bengaluru
12	Tata	Indigo	White	2020	1000	Bengaluru
13	Honda	Accord	Red	2018	800	Bengaluru
14	Maruti	Baleno	Grey	2021	1300	Bengaluru
15	Maruti	Swift	White	2022	1350	Chennai
16	volkswagen	vento	Grey	2017	950	Chennai
17	Honda	Passport	Blue	2019	1600	Chennai
18	Honda	Passport	Red	2019	1800	Hyderabad

User part : -

A new User should **create an account** in the website by providing all the details at Registration page.

Register Page

when clicked on " **Sign-up** " button, after providing the details, then the user is redirected to the sign in page.
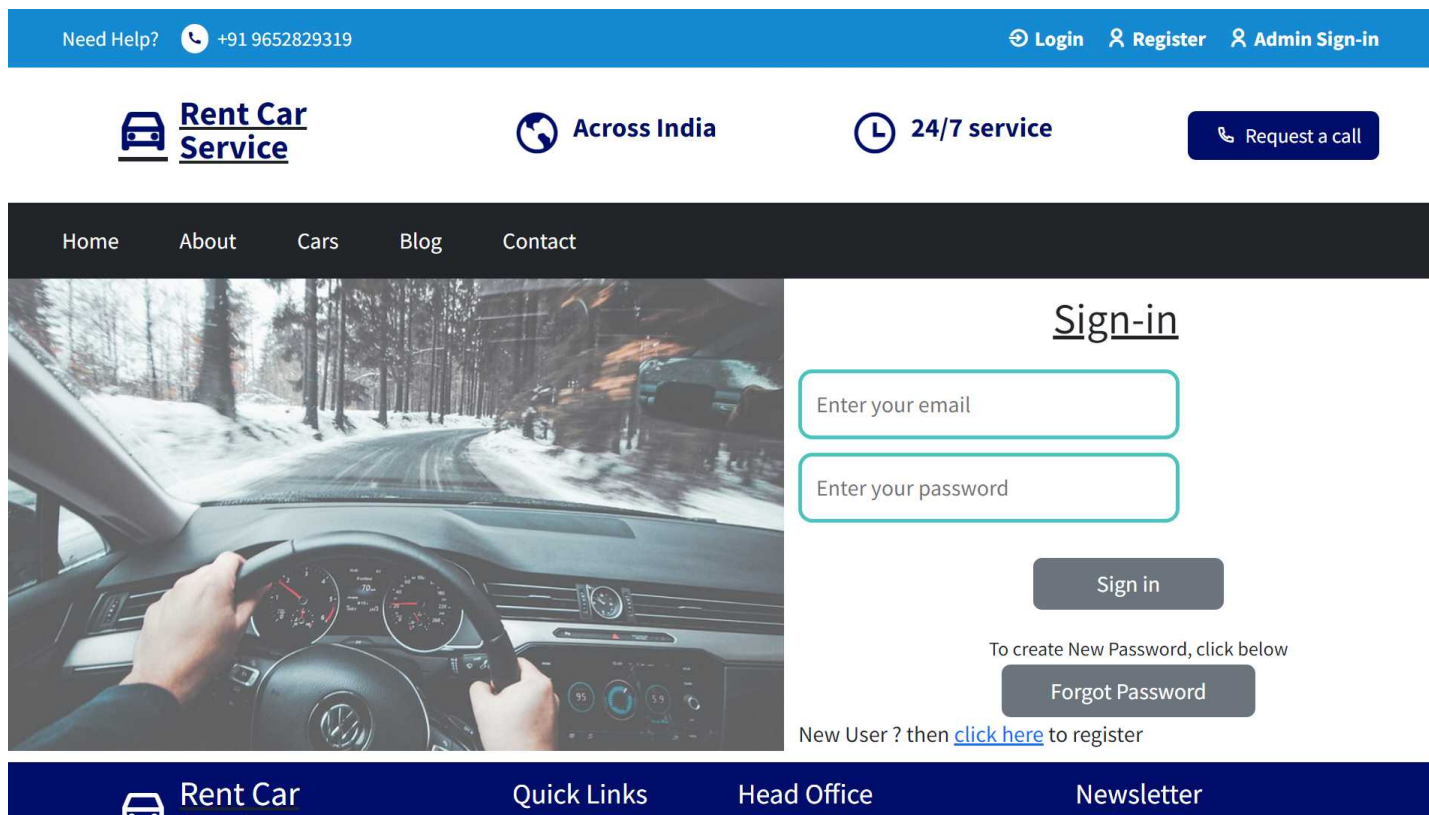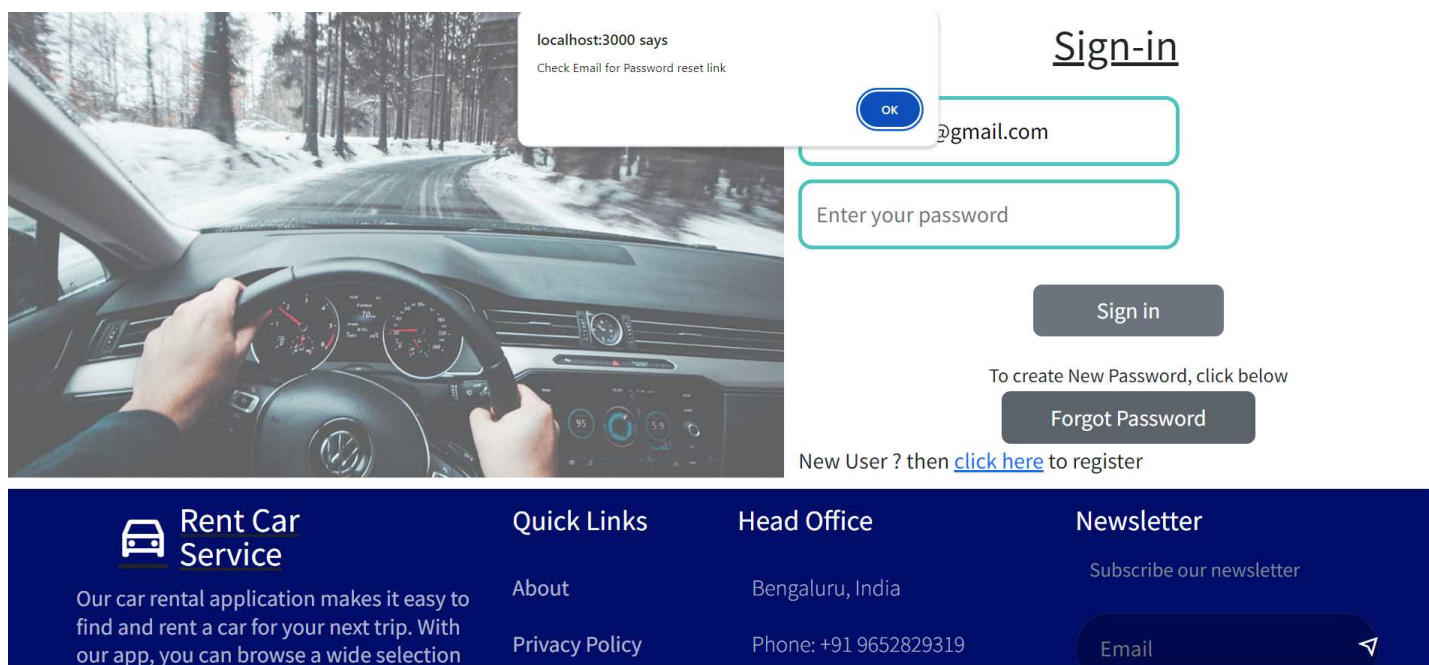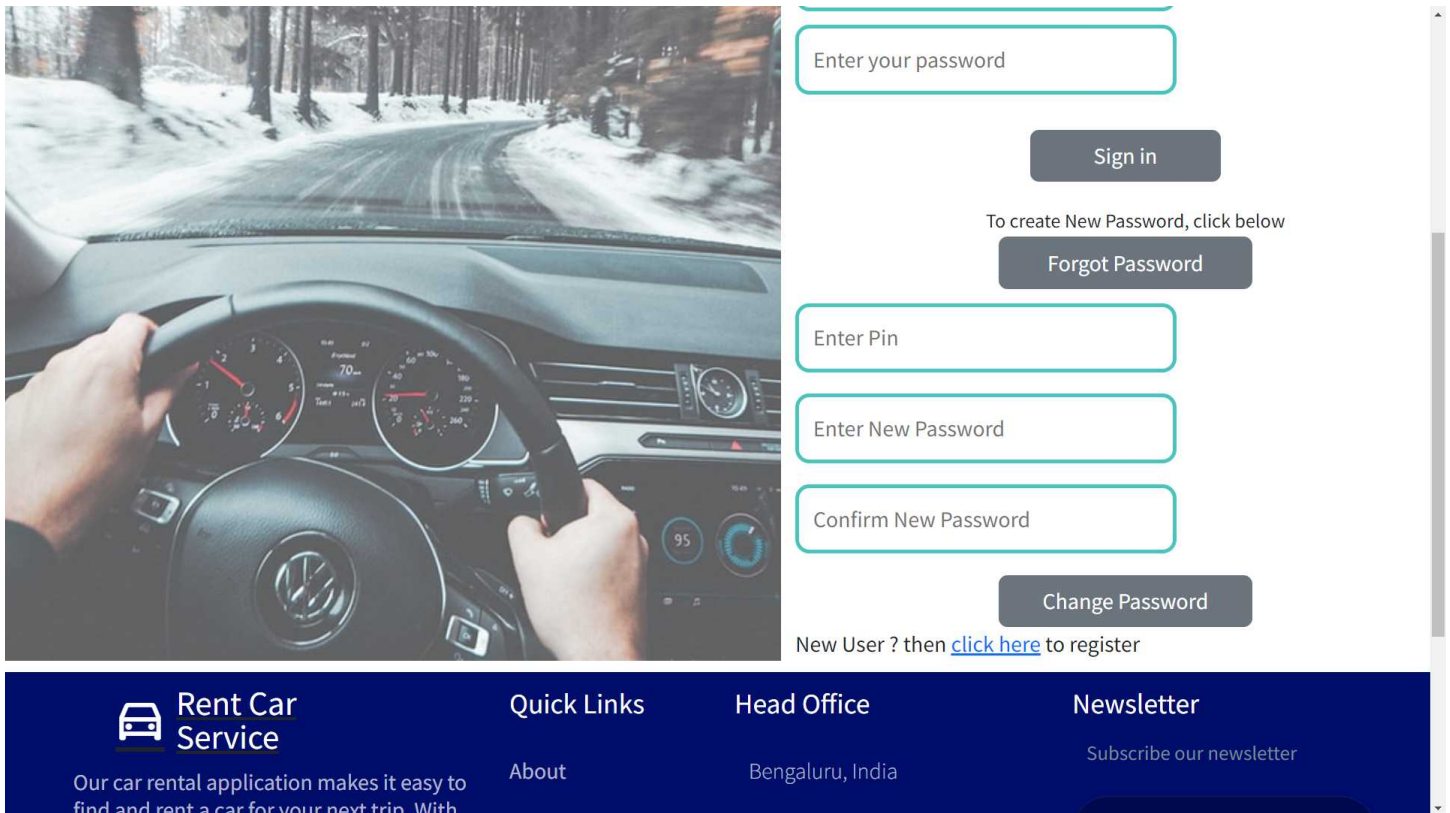
By chance, if the user forgots the password, then no need to worry. User can change the password by clicking on " **Forgot Password** " button.

By clicking the Forgot Password buton, the " **6 - digit pin** " is generated and sent to the email mentioned in email field. And immediately the form is visible to the user as below.

If the Pin entered and Pin generated matches, then the password will be changes to the now created one.

Landing Page

After successful Login, now the user enters the account and can be seen the below Eye-feasting Welcome page.

Home   About   Cars   Blog   Contact

Log-Out

Welcome

You Need a Car ?

Book Ride...Drive Ride....Enjoy Ride

Select Your City

Search your city

Excelr   Spring Boot   Resume   Javascript   All Bookmarks

Select Your City

Search your city

dd-mm-yyyy   dd-mm-yyyy

Search

My Bookings
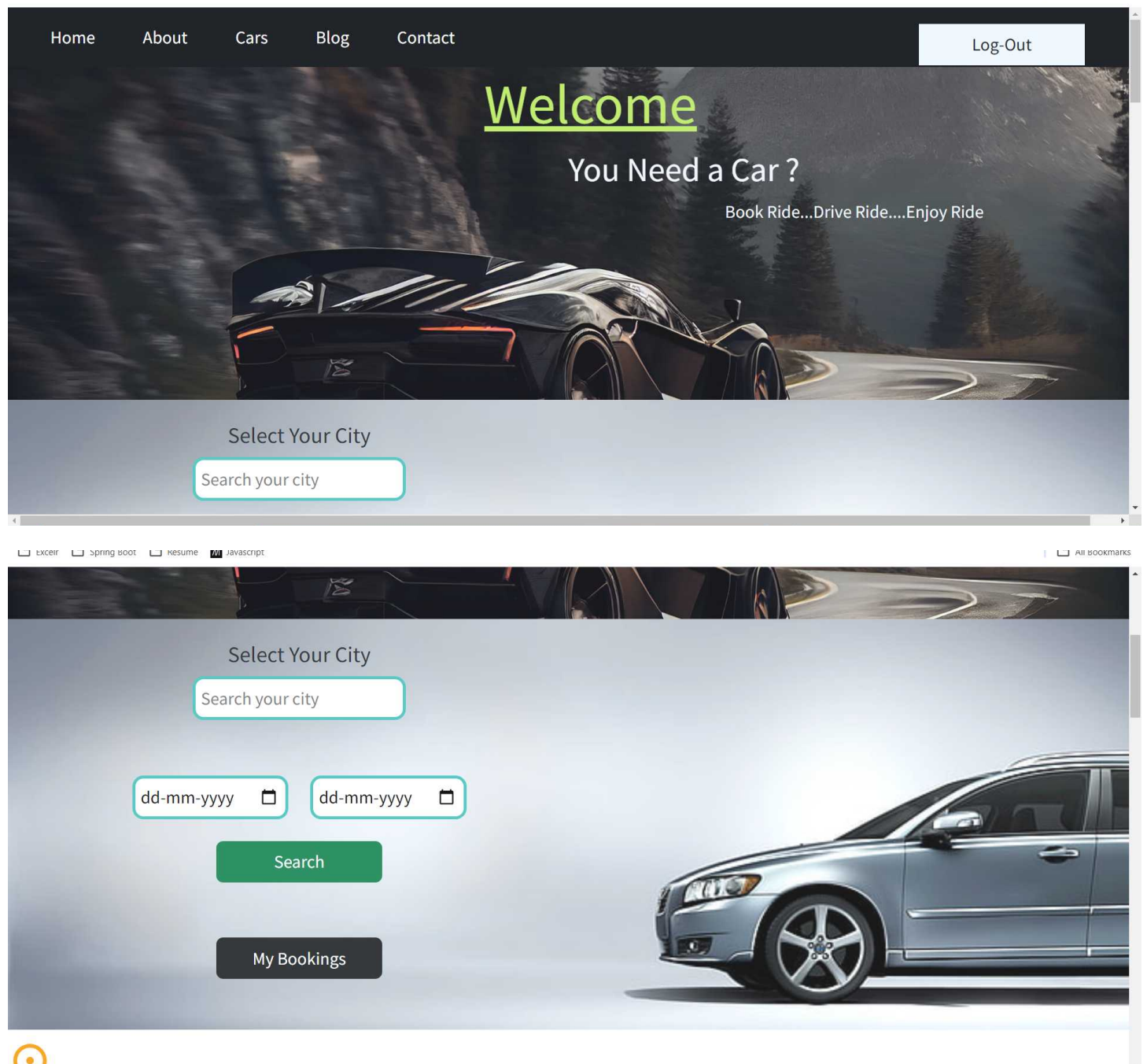
Airport Transfer

Tempor tempor sadipscing vero lorem sea, invidunt sed et eos ipsum et erat. Dolor ut duo sadipscing lorem. Gubergren gub

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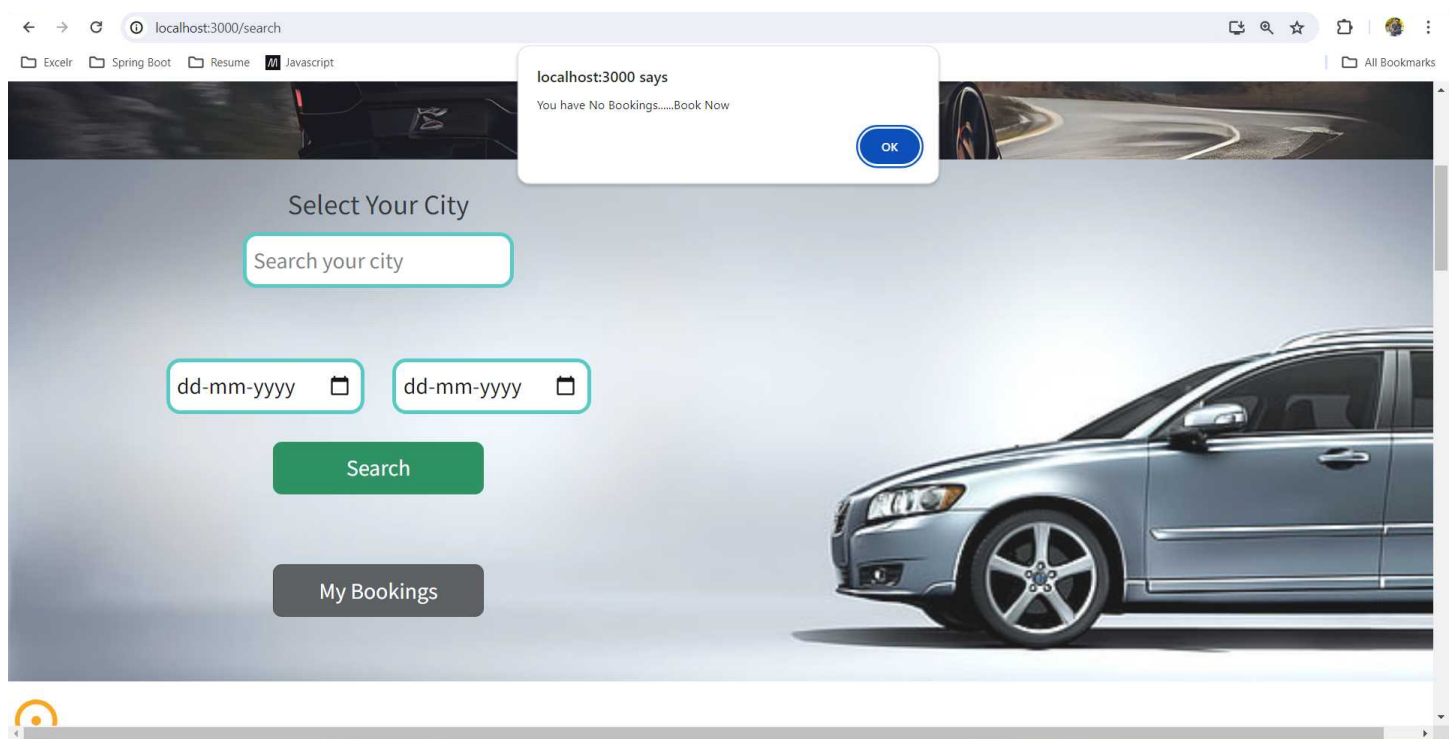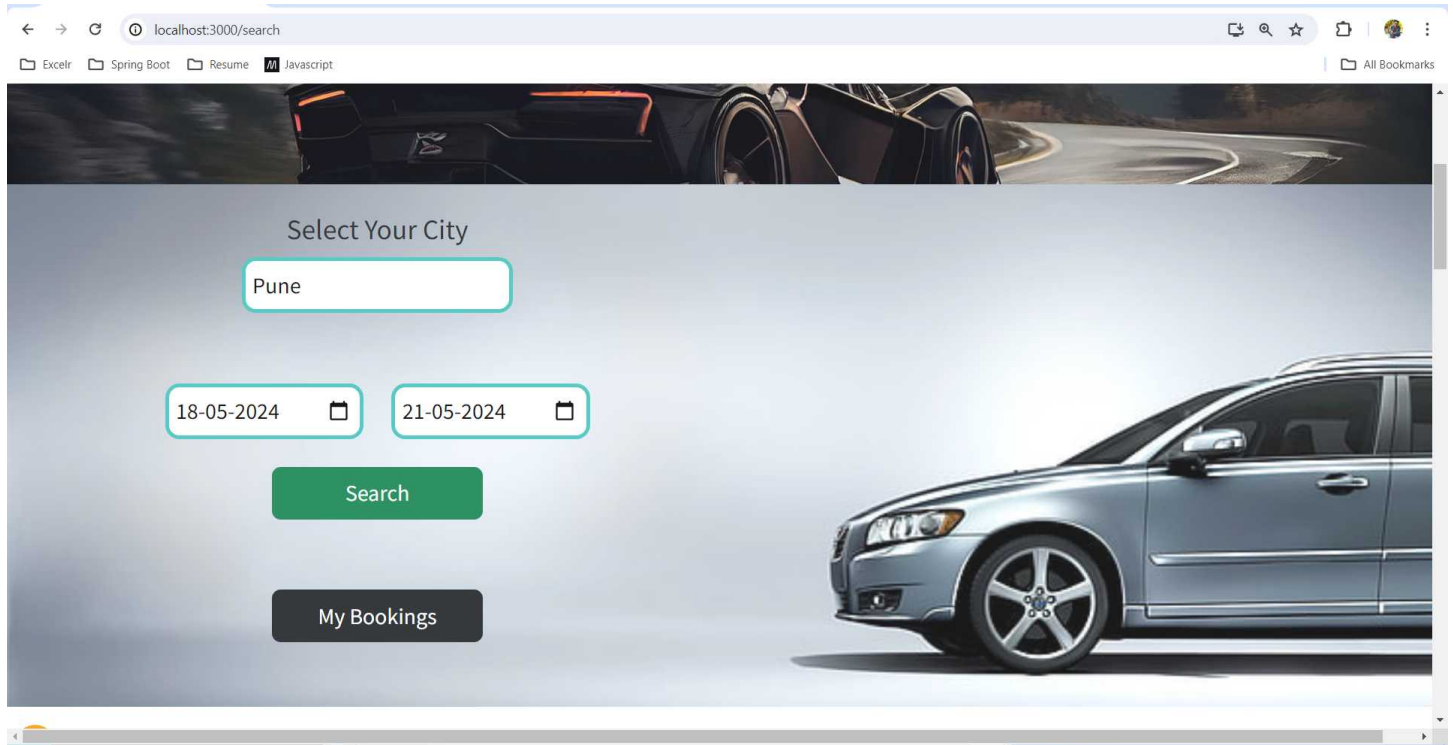
Tharun Kumar
Customer

Sneha
Customer

Mohan
Customer

The above are the **Testimonals** given by other users.

To Book a car the User should enter the fields visible there.If the user clicks on " My Bookings " button without any previous booking, then can see an alert message as shown below.

For Booking the Car, the user should select the " **City** " displayed in the list, " **From Date** ", and " **To Date** " as below and click on " Search " Button.

In the next page, the user can able to see the details, which he selected while searching and below that, List of all the cars available in that particular city, which the user selected while searching.

Book Car

The user is shown **company, model, color, year, Rent per Day** details of the car to ease the selection of the car.

Home   About   Cars   Blog   Contact   Log-Out

Selected details :

Selected City :   Pune

Selected From Date :   2024-05-18

Selected To Date :   2024-05-21

Visit Cars link above for Images

Available cars in Pune:

Car Id : 21	Car Id : 24
Company: Maruti	**Company:** Tata
Model: Baleno	**Model:** Safari

Available cars in Pune:

Car Id : 21	Car Id : 24
Company: Maruti	**Company:** Tata
Model: Baleno	**Model:** Safari
Year: 2019	**Year:** 2019
Rent Per Day: Rs.1500	**Rent Per Day:** Rs.2000
Color: Grey	**Color:** Black
Book	Book

Car Id : 26	Car Id : 27
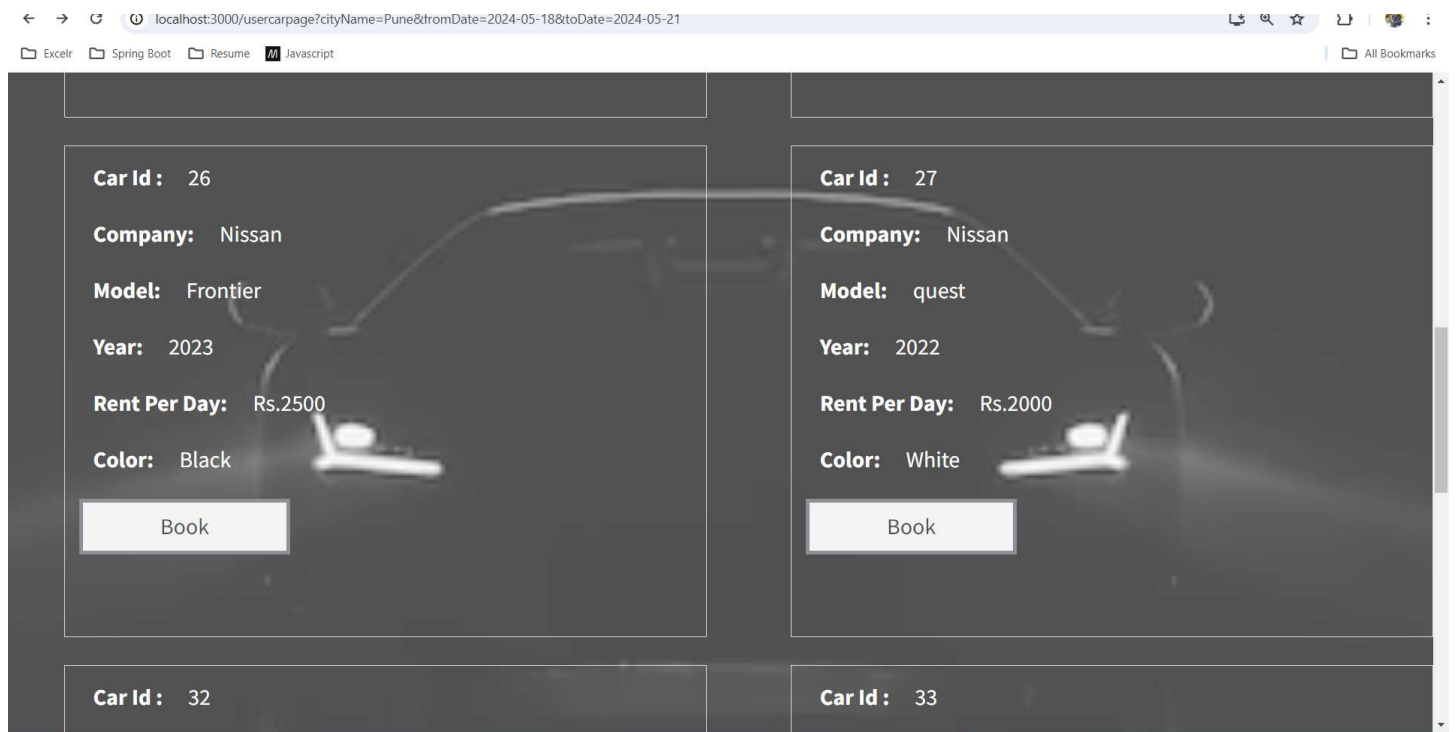
Now the user can able to book the car, whichever is perfectly matches to their requirements like car seating, price and additional details like Mileage, Fuel used which are available in " **Cars** " section.

Once the user selects the car and clicks on " **Book** " button of that respective car, then redirect to **confirm details page** like below.

Note : - The user can able to proceed to next step, **if** the car is **available** at that particular dates.

Booking Details

Confirm your Booking Details :

User Id : 18

Car Id : 24

City Name : Pune

From Date : 2024-05-18

To Date : 2024-05-21

Note : Pay at Car, Take the Car

Book Car

Rent Car Service

Our car rental application makes it easy to find and rent a car for your next trip. With our app, you can browse a wide selection

Quick Links

About

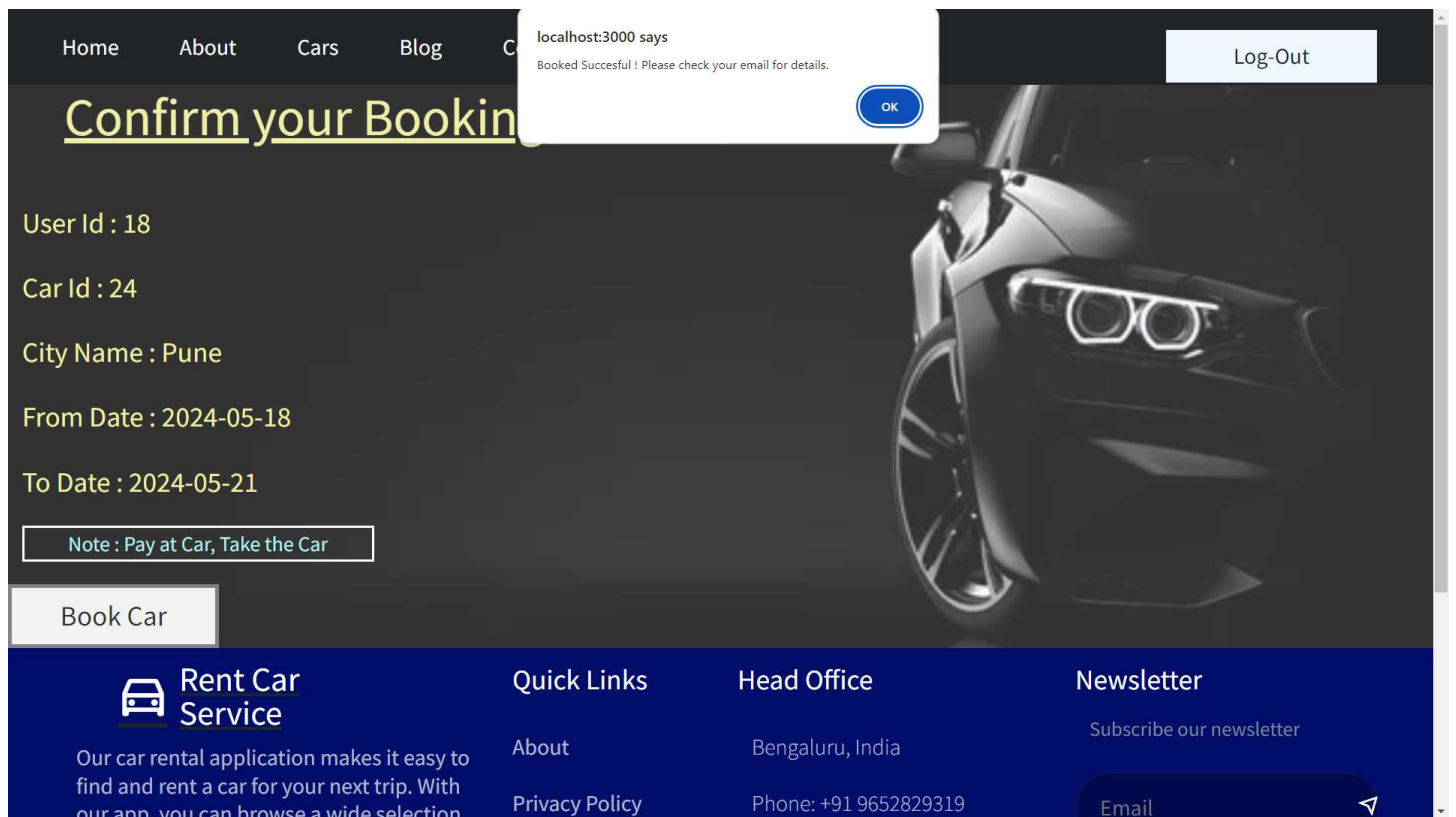Privacy Policy

Head Office

Bengaluru, India

Phone: +91 9652829319

Newsletter

Subscribe our newsletter

Email

Once reviewing all the details of the ride, which was selected previously. If the user thinks everything is fine then click on the " **Book Car** " button shown below to book the car for that particular date in a city.

After succesful booking, user can able to see an alert message saying, " **Booking Succesful, check email for details** ".

As said, if opens gmail, then the user will receive the mail in which mentioning all the booking details like below.
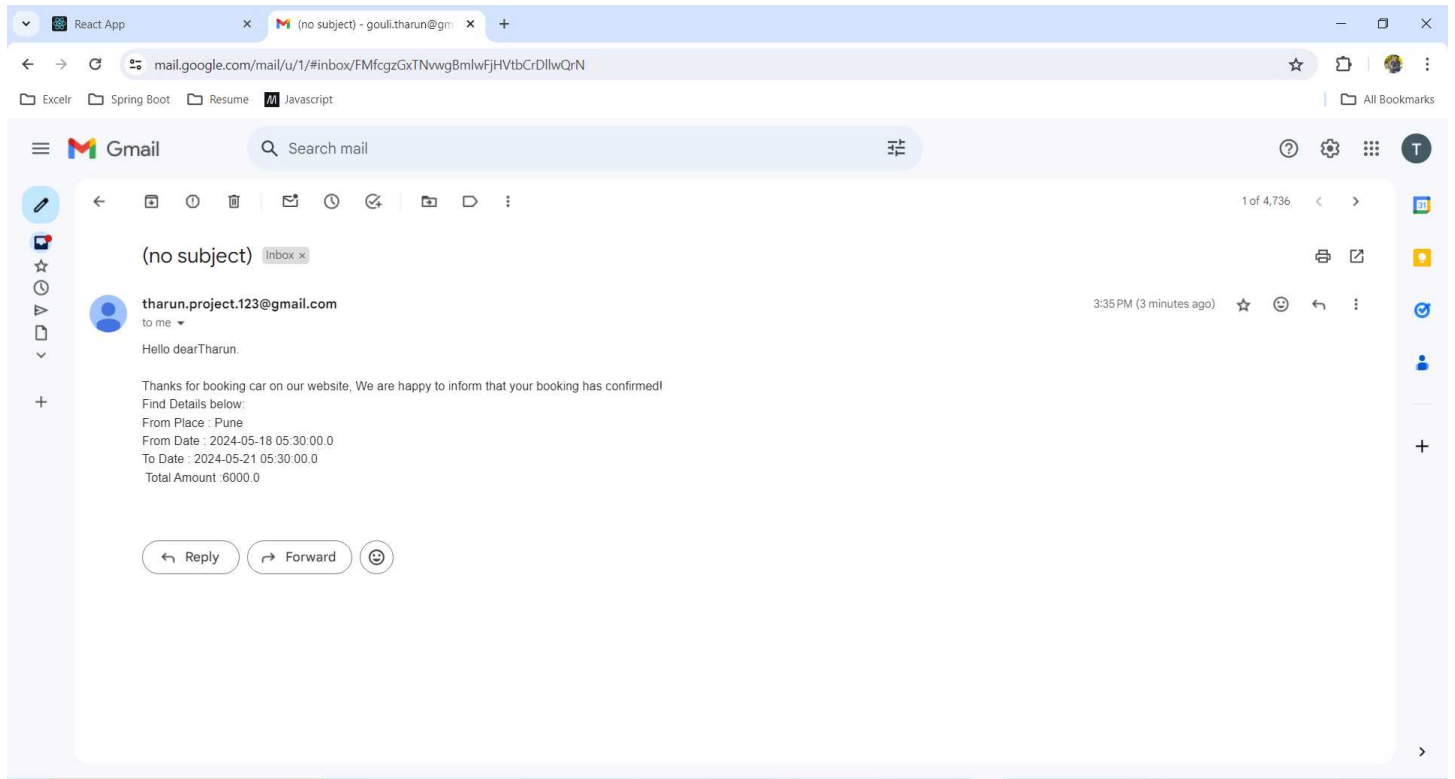
After succesful booking, the user is redirected to the Landing page, now the user can able to **see the booking** done by clicking " Click " buton below " See all the cars " button.

If the bookings present for the user, then can bee seen all the bookings with all the details of that booking
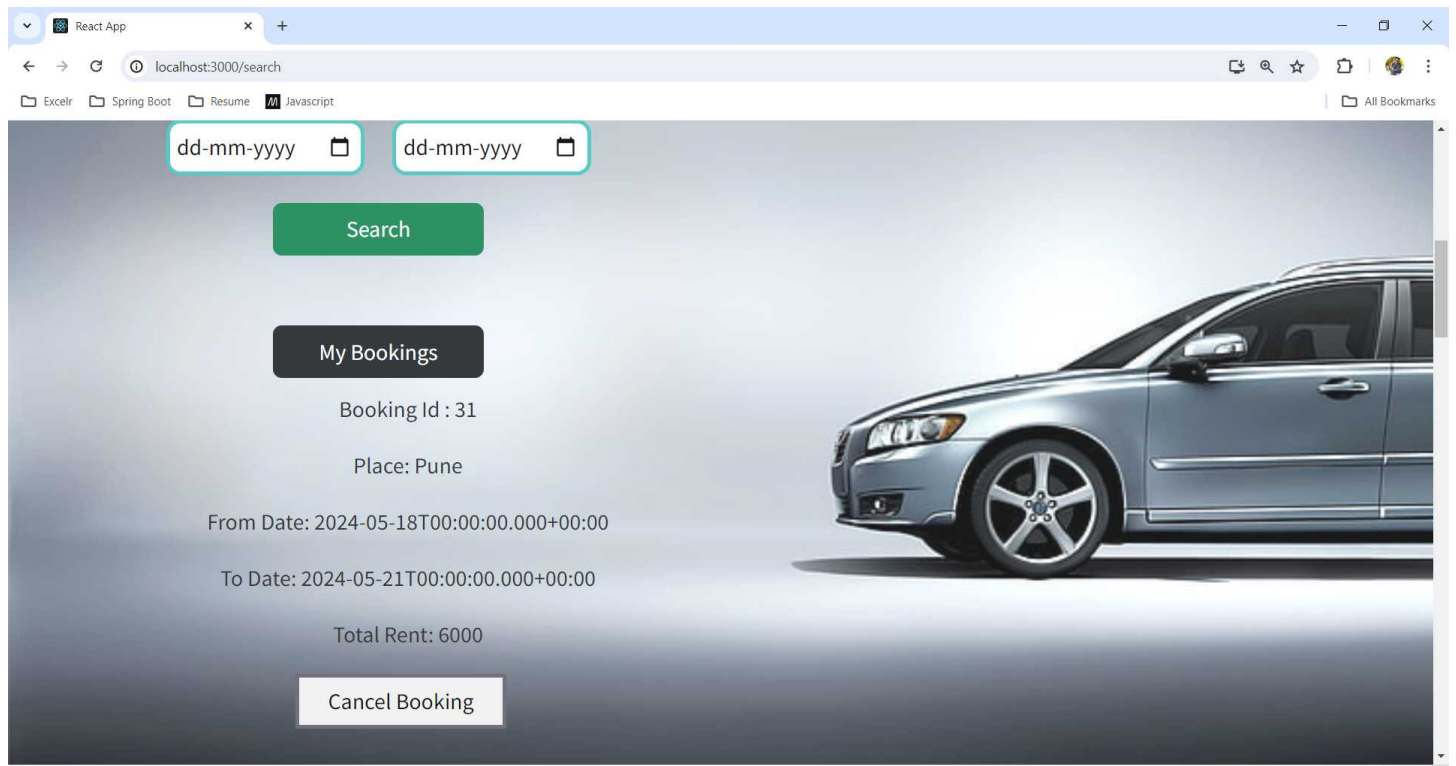
The user is given an additional feature. where user can " **Cancel the Booking** " of previous booking by clicking the " **Cancel Booking** " button.
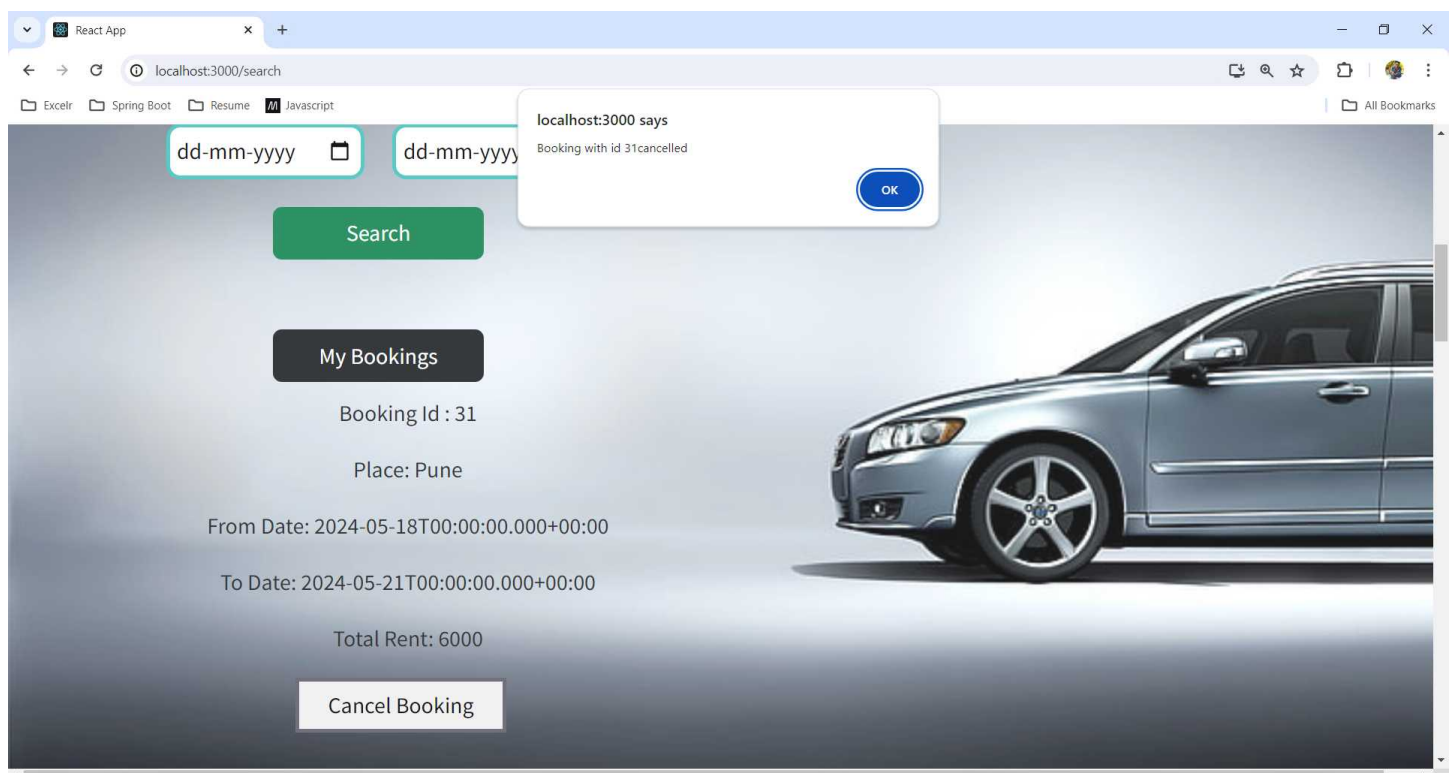
when clicking on the Cancel Booking button, then that respective booking gets canceled and shown in an alert message saying, " Booking with id {number} gets canceled (if there are any other bookings, they will be shown) and the page gets reloaded.

Sign out

After completion of booking, the user will be getting all the booking information to his/her respective email provided while registration.

Now if the user want's **exit the profile** from website, then click on " **Sign out** " button at Top-right corner.
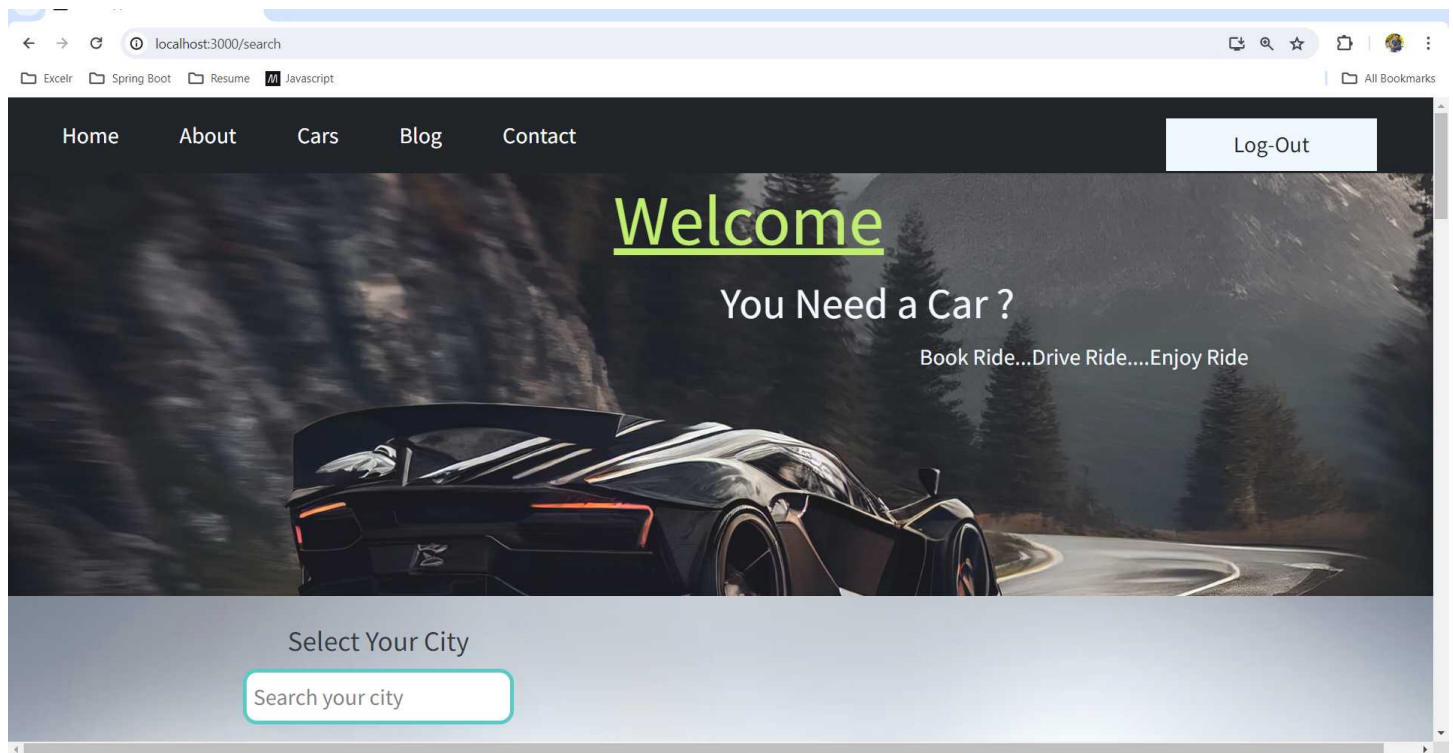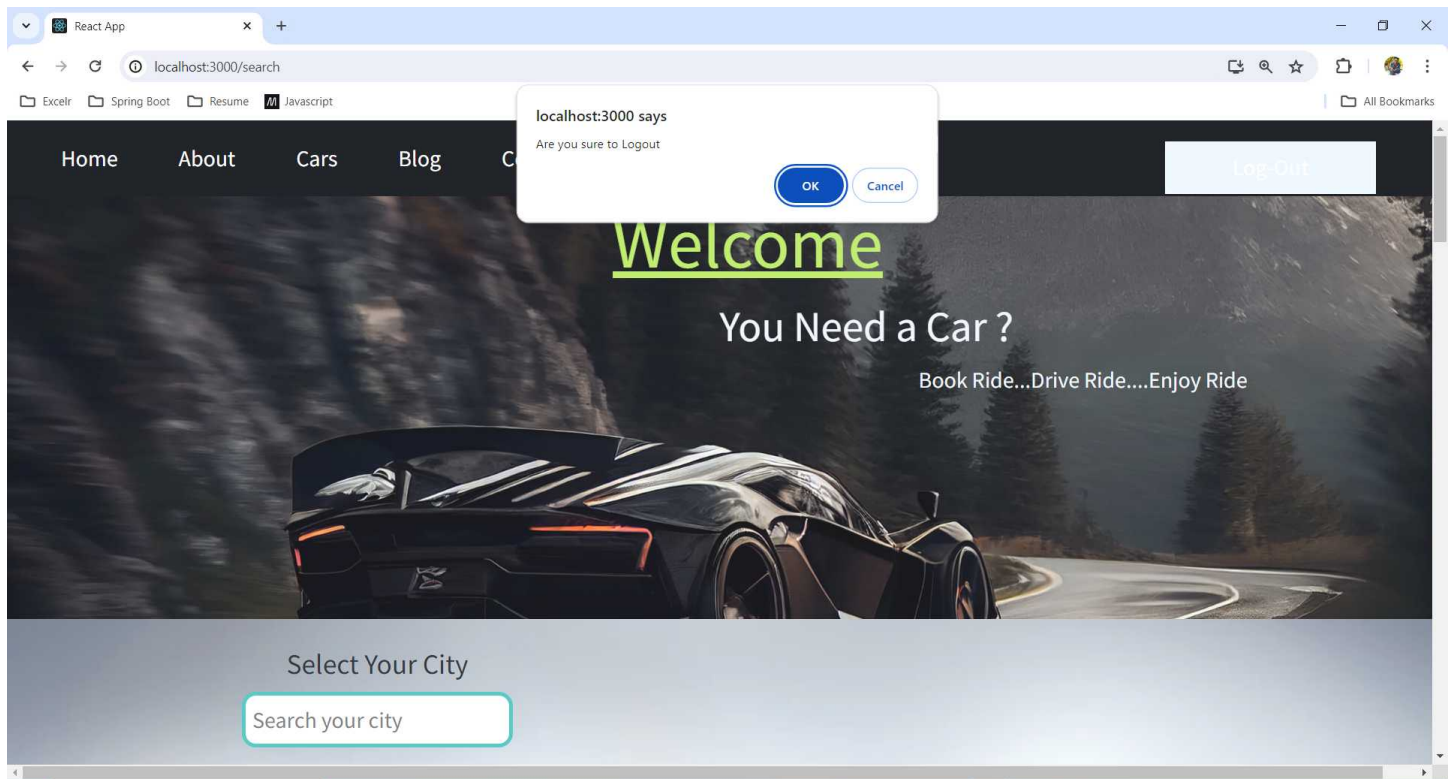
once the user clicks on the " Log-Out " button then an alert message appears, asking for confirmation to logout. If click " yes ", then the account exists from the website, or else will be on the same page.

The Conclusion

In this manner, a user can enjoy the booking and also ride with our amazing services. The car rental web application successfully meets the objectives set out at the beginning of the project.

This application provides a seamless experience for renting cars, with a robust Backend and a Responsive Frontend.

Technologies, Tools specification : -

Frontend	javaScript, React.js, CSS
Backend	Java, SpringBoot, JDBC
Database	MySQL (RDBMS)
Tools	vs Code, Intellij, Chrome

Project Structure

car-rental-app/

```
├── Backend/
│   ├── src/
│   │   ├── main/
│   │   │   ├── java/com/.example.Backend
│   │   │   │   ├── config/
│   │   │   │   ├── controller/
│   │   │   │   ├── Dto/
│   │   │   │   ├── Entity/
```

```
│   │   │   │   ├── repository/
│   │   │   │   ├── service/
│   │   │   │   └── BackendApplication.java
│   │   │   ├── resources/
│   │   │   │   ├── application.properties
│   │   │   │   ├── static/
│   │   │   │   ├── templates/
│   │   │   │   └── application.properties
│   │   └── test/
│   │       ├── java/com/carrental/
│   │       │   └── CarRentalApplicationTests.java
│   ├── mvnw
│   ├── mvnw.cmd
│   ├── pom.xml



├── frontend/
│   ├── public/
│   │   ├── favicon.ico
│   │   └── index.html
```

```
|   ├── src/
|   |   ├── assets/
|   |           ├── all-images
|   |   ├── components/
|   |   |   ├── Footer/
|   |   |   ├── Header/
|   |   |   ├── Helmet/
|   |   |   ├── Layout/
|   |   |   ├── UI/
|   |   ├── pages/
|   |   ├── routers/
|   |   ├── styles/
|   |   ├── App.jsx
|   |   ├── index.js
|   |   └── index.css
|   ├── .gitignore
|   └── package-lock.json
|   ├── package.json
|   ├── README.md
```

Acknowledgment

I would like to thank the entire team for their seamless support and effort in the completion of the project.

Special Thanks to our mentors, " Safan Sir ", and " Sarfaraz Sir " for their guidance and support.

GitHub Link

https://github.com/Excelr-project