
Test Document

for

Fleet

Version 1.0

Prepared by

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
1.0	Habeeb Ramith Kumar Reddi Pallavi Pasala Bosu Akil Teja Shashi Bhidodiya Manam Amara Gayathri Sai Prabhav Koneti Karthik Poorvie Sadagopan Pittala Sruti Jyothika Seru	First version of the test document	04/04/2025

1 Introduction

Test Strategy

Our vehicle rental website Fleet, including the admin panel, is designed to provide a seamless and efficient experience for both customers and administrators. The platform allows users to browse available vehicles, make bookings, and manage their rentals while giving administrators full control over vehicle listings, user data, and booking management.

Our team's testing strategy for such a complex platform involves manual testing, ensuring that each feature functions correctly across different scenarios. Each tester will independently test the system by providing various inputs and comparing the obtained output with the expected results.

The testers have subjected the website to different possible input combinations and verified the proper response of the website as and when required. The tests not only consisted of proper verification of output on the website (frontend), but also consisted of constant verification for the proper entries in the database (backend). This leads to a precise check of all the functional and nonfunctional requirements to be fulfilled by the website as mentioned in the SRS document.

Testing Period of the Website

The testing was an integral part of the development process. During the implementation, the website was subjected to tests corresponding to basic functions such as logins, bookings, etc.

However, the majority of the testing of the website was done after the implementation of the website. Since the basic functionality of the website was set in stone and tested, any bugs encountered in the website were easier to tackle since they involved changes only in specific features of the website (certain functions of the source code). This made testing a lot more efficient and less time consuming.

Testers of the Website

Due to constraints of time and the size of the team, the developers of the website were the testers themselves. However, it was ensured that the responsibility of testing of units and components was not placed on the person who developed or played a role in developing them. This ensured the neutrality of the testing process. The benefit of having the developers being the testers was that we knew the different possible inputs and hence were able to carry out extensive testing to ensure the robustness of the website. Multiple errors were identified and corrected as and when discovered.

Coverage Criterion for Testing

Functional requirements were the criterion used for the testing.

Tools used in testing

No tools were used for testing. The entire process was manual.

2 Unit Testing

1. User Sign Up

One of the basic features of any website is the ability for the users to create a new account. So is the case with Fleet. Our website provides the user the ability to create a new account with the help of the create new account option. The user needs to provide an Email and his desired password to make a new account.

Unit Details : User sign-up page.

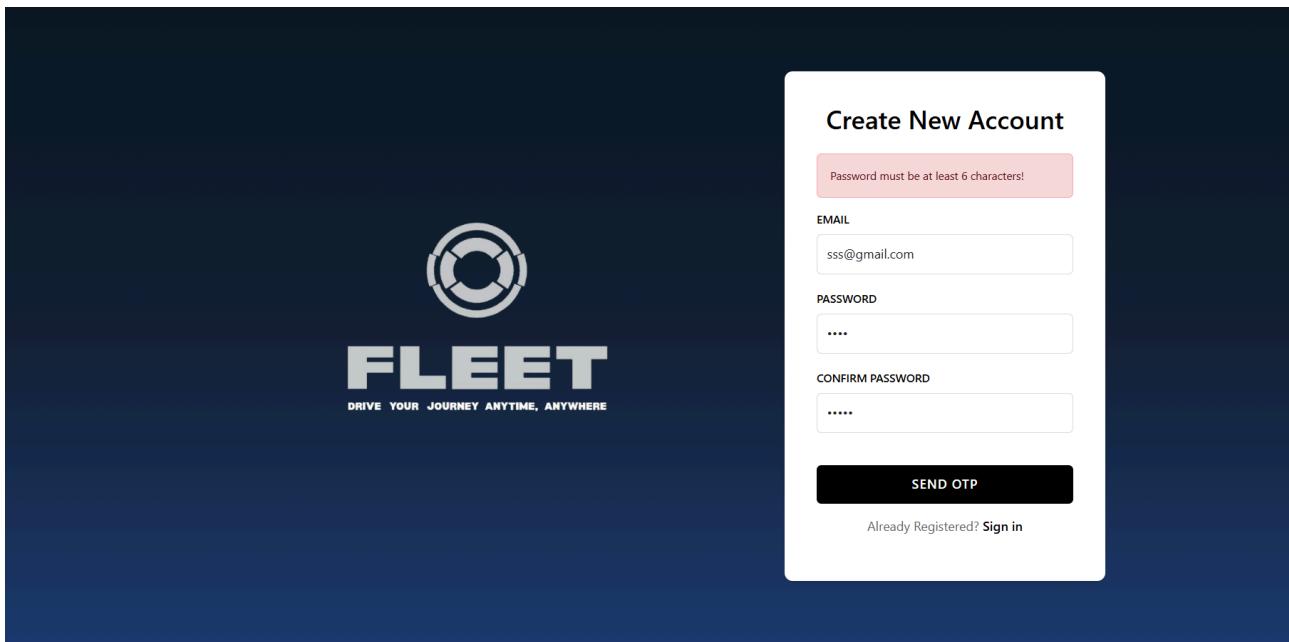
Test Owner : Pasala Bosu Akil Teja

Test Date : 28/03/2025 - 01/03/2025

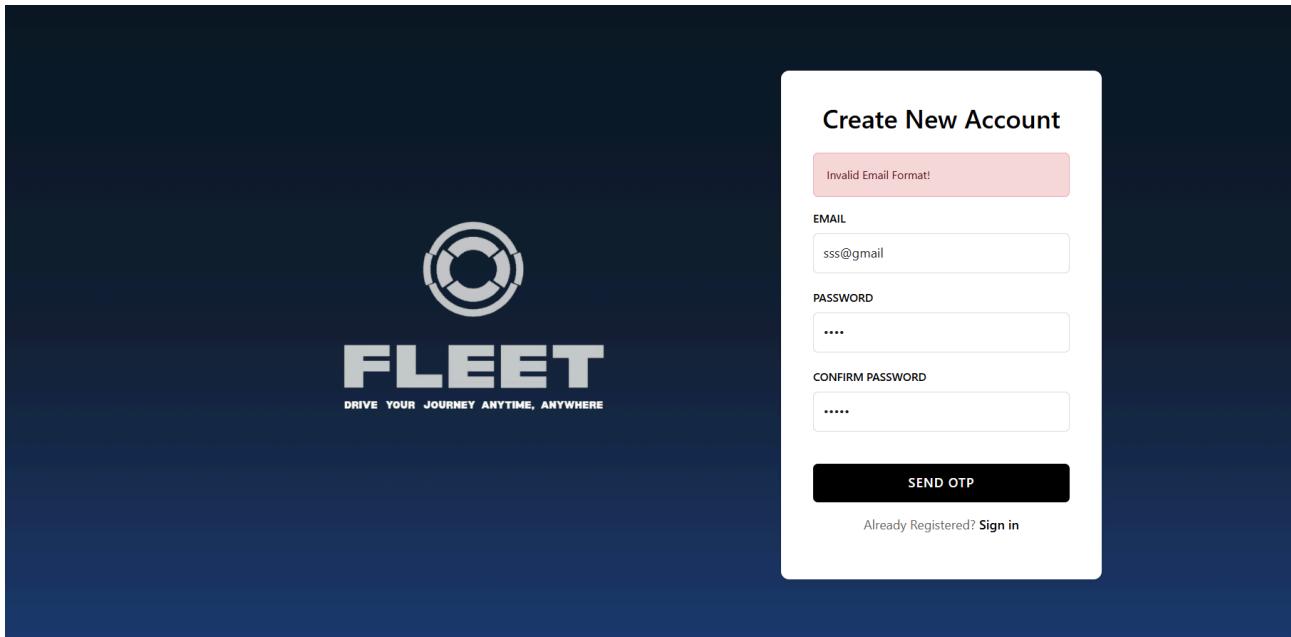
Test Results :

Fleet has a robust sign up process wherein the user is easily able to create a new account with no problem. The entire process consists of the industry standard sign up procedure with OTP verification.

It prompts the user if the password entered is less than 6 characters.

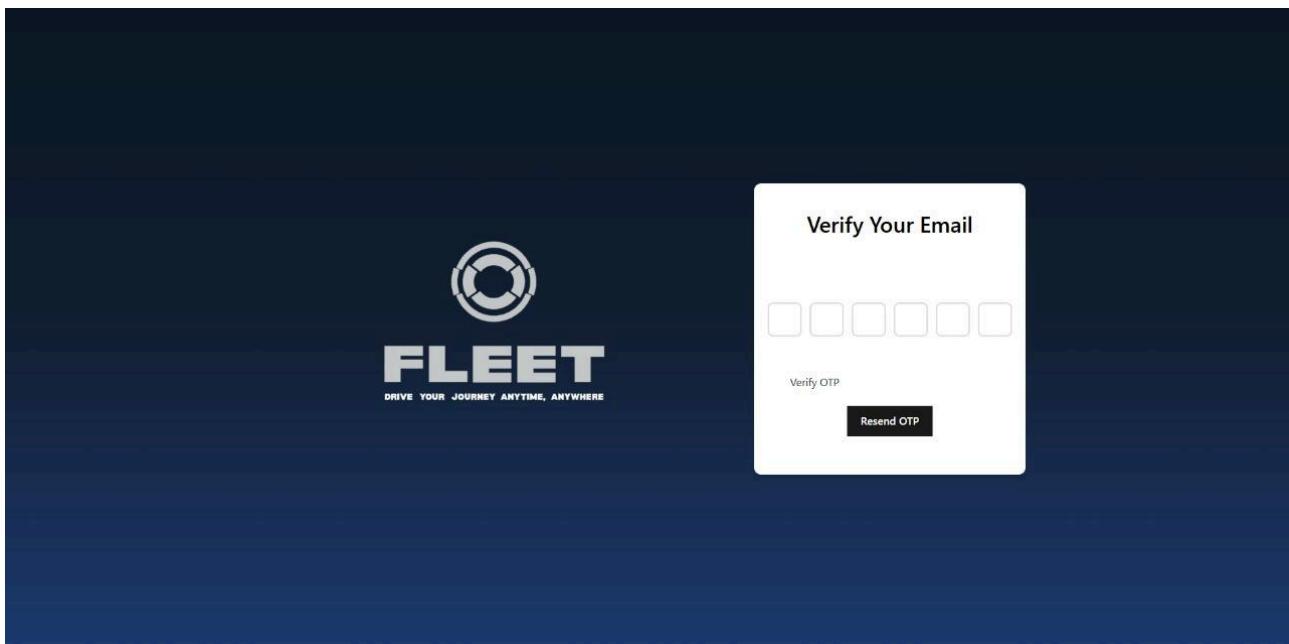


It prompts the user if Email is not valid.



It prompts the user if passwords does not match

After clicking SEND OTP, otp will be sent to the given email.



In the OTP screen, the user can enter only numbers. There is an option to resend the OTP. After verifying the OTP, the account will be created.

localhost:27017 > fleet > users

Documents 2 Aggregations Schema Indexes 2 Validation

Type a query: { field: 'value' } or [Generate query](#)

[+ ADD DATA](#) [EXPORT DATA](#) [UPDATE](#) [DELETE](#)

```
_id: ObjectId('67efae8ea74b631a193af449')
email : "ramith@g.com"
password : "$2b$10$6j29RBQihaqWtvwKC8XPy.BHfzw.g0sXNpUEPxnmLtGpeub0lcFYa"
fullName : ""
phoneNumber : ""
address : ""
dateOfBirth : null
role : "customer"
isVerified : true
createdAt : 2025-04-04T10:03:58.733+00:00
updatedAt : 2025-04-04T10:03:58.733+00:00
__v : 0
```

```
_id: ObjectId('67eff76ecf3740a3ebde35e3')
email : "habeebramithkumar04@gmail.com"
password : "$2b$10$hSyFvvvMb.sppnN2Sj0vYuuYwedGqoFS2M10lzXCS/50dwE2LHO3e"
fullName : ""
phoneNumber : ""
address : ""
dateOfBirth : null
role : "customer"
isVerified : true
createdAt : 2025-04-04T15:14:54.821+00:00
updatedAt : 2025-04-04T15:14:54.821+00:00
__v : 0
```

The account data has been stored in the database.

Structural Coverage : 100%

Function coverage : 100%

All edge cases related to empty inputs, invalid email format are covered.

Additional comments : We found and fixed some minor bugs. These included the ability to enter alphabets on the OTP page and the resend OTP option not working.

2. User Sign In

Login page was tested.

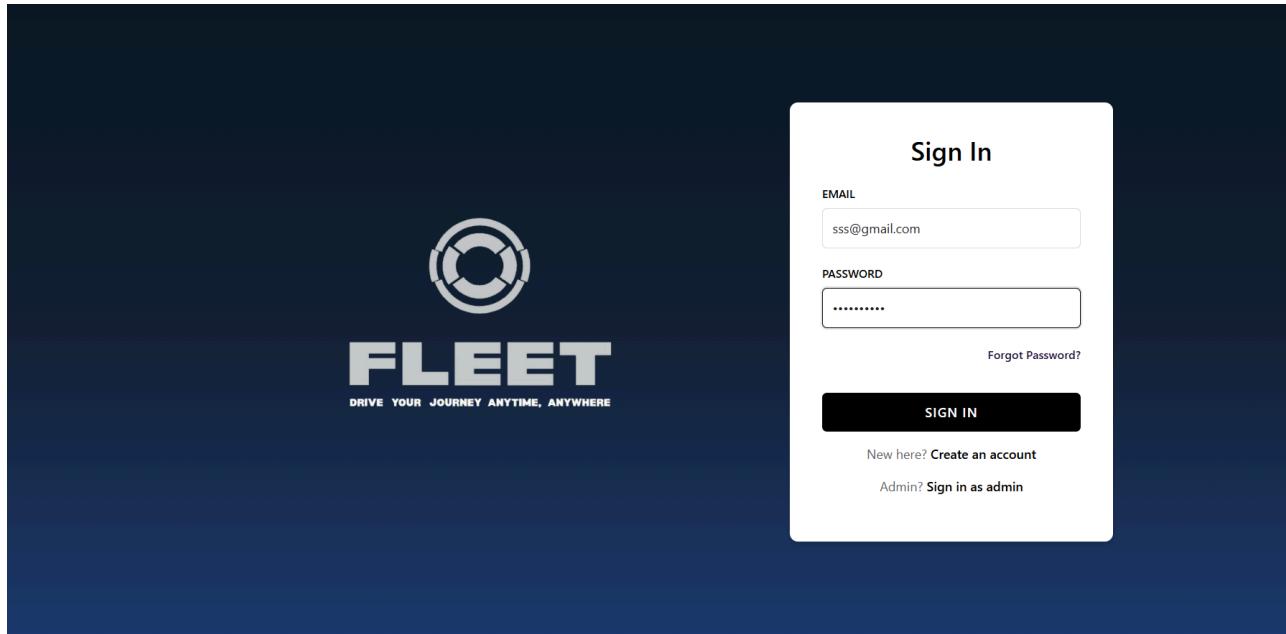
Unit Details : Login details

Test Owner : Poorvie Sadagopan

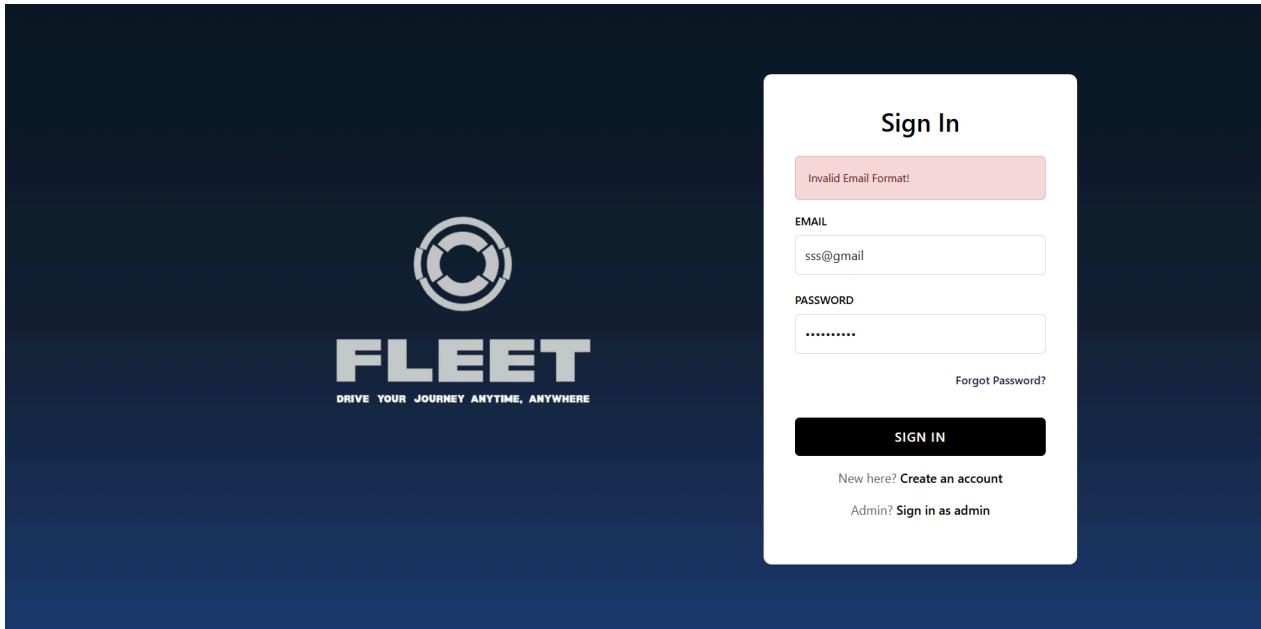
Test Date : 28/03/2025

Test Results :

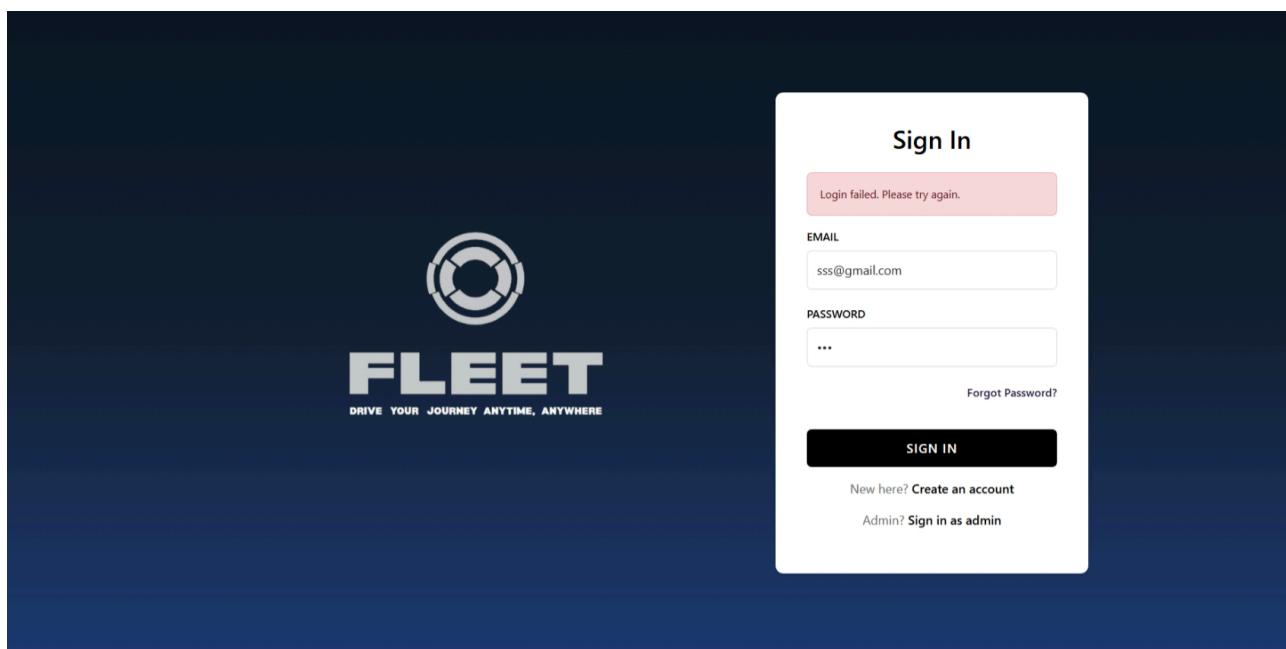
The login page is successfully working and we verified from the database.



It prompts the user if email is not valid



It prompts the user if the password entered is less than 6 characters.



Structural Coverage : 100%

Additional Comments : After signing in, it will navigate to the user home page. Everything is working fine.

3. Admin SignIn

Login page was tested.

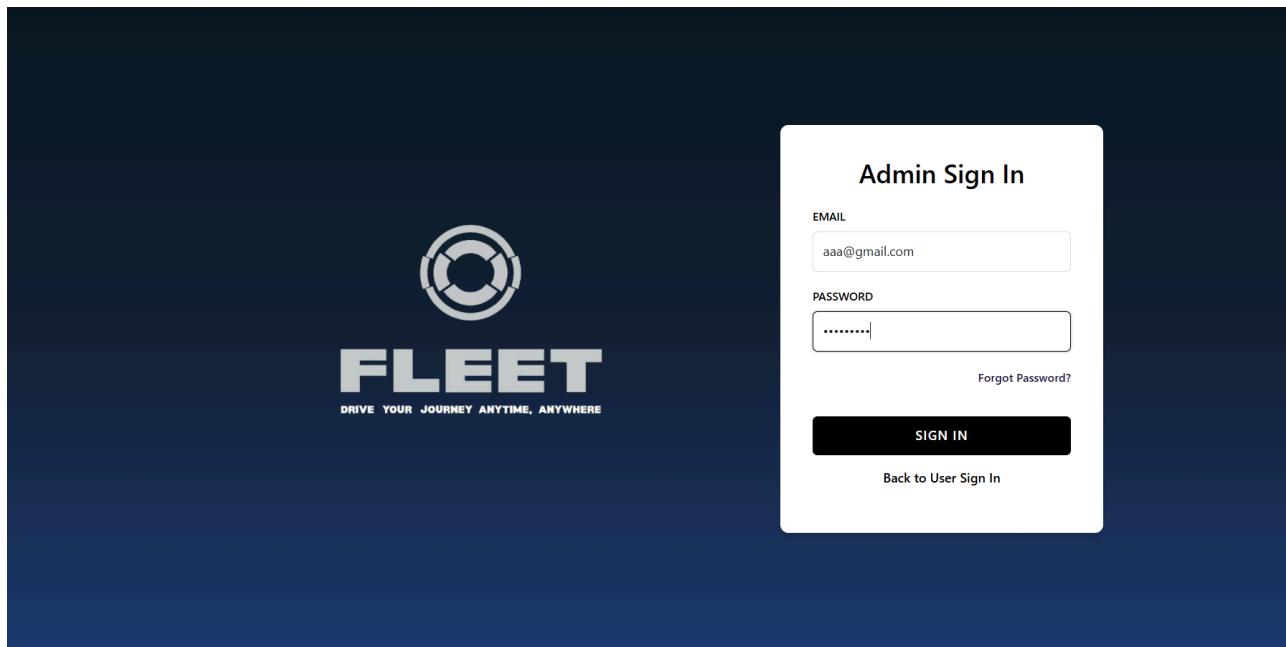
Unit Details : Admin login page

Test Owner : Poorvie Sadagopan

Test Date : 28/03/2025

Test Results :

The login page is successfully working and we verified from the database.



Structural Coverage : 100%

Additional Comments : After signing in, it will navigate to the admin home page. Everything is working fine.

4. Forgot Password

Forgot Password which is present in User Sign In and Admin Sign In is tested.

Unit Details : For changing password

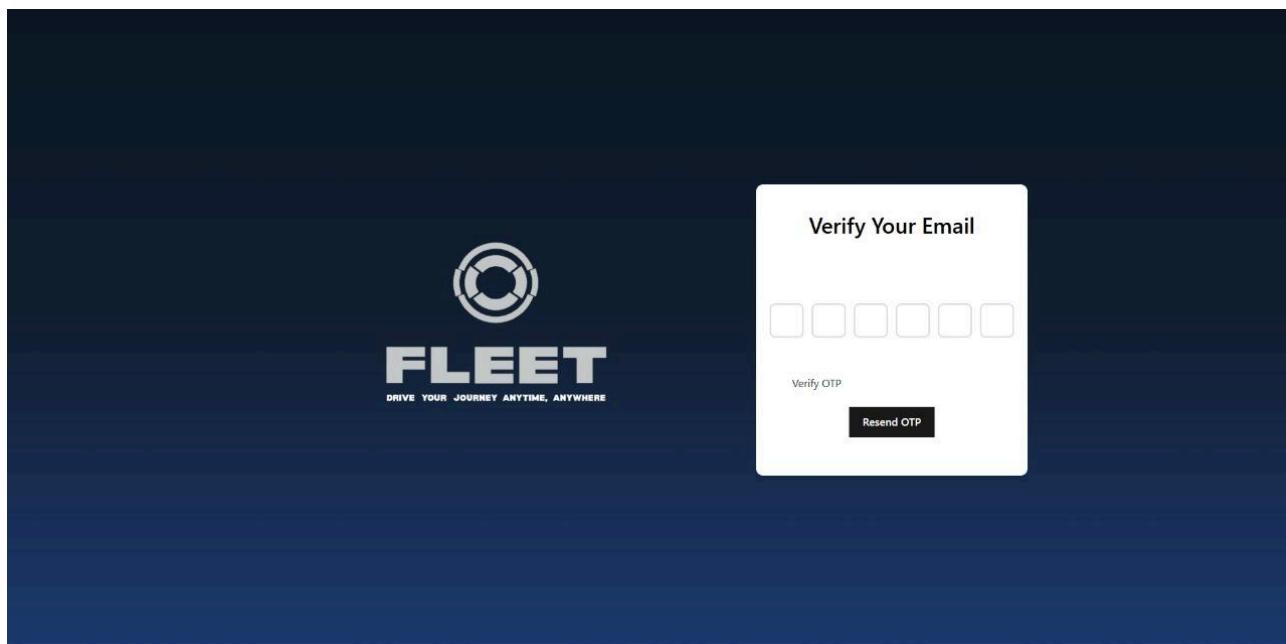
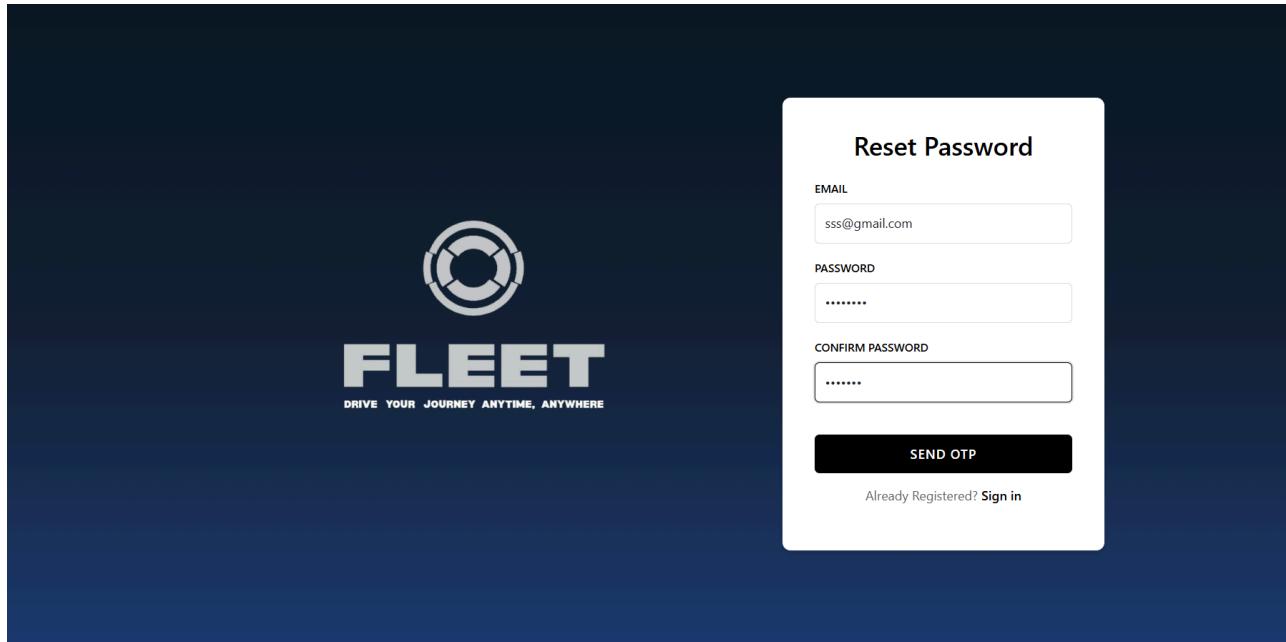
Test Owner : Habeeb Ramith Kumar

Test Date : 29/03/2025

Test Results :

The Reset Password page is successfully working.

On clicking Forgot Password we will navigate to the Reset Password Page and then the process is similar to sign up (OTP verification).



Structural Coverage : 100%

Additional Comments : We found some errors in the database but we fixed them.

5. Help Button

This help button is placed in the navbar of the user.

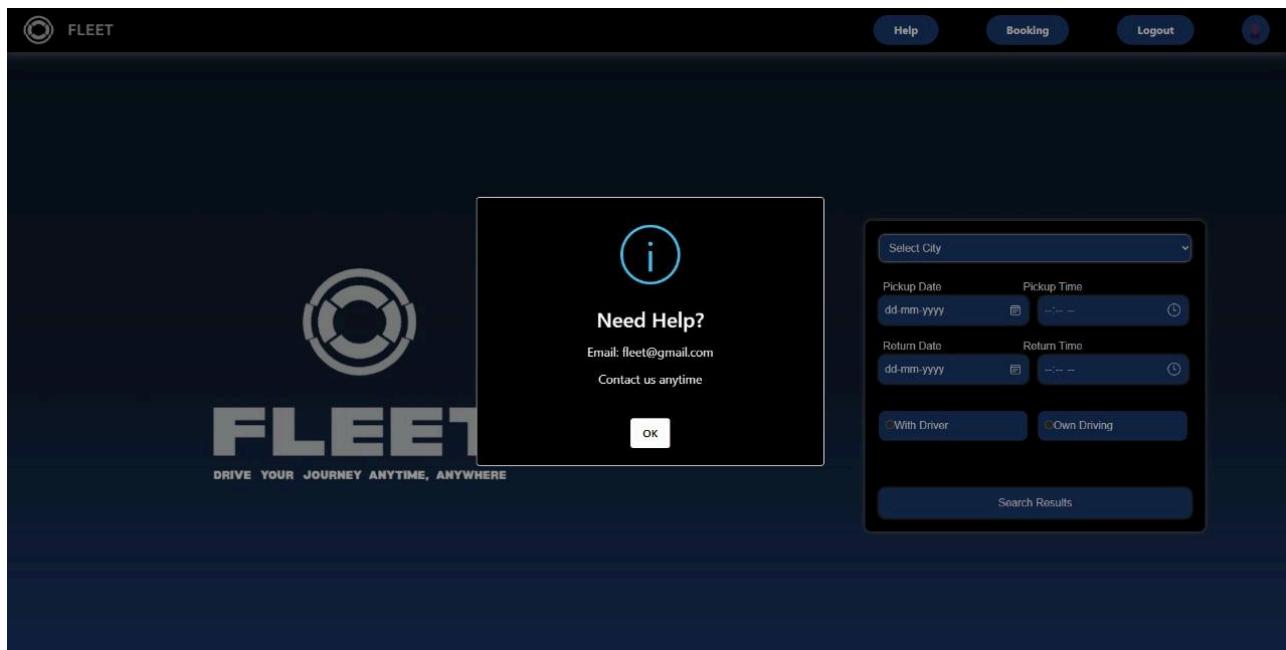
Unit Details : Help button

Test Owner : Sai Prabhav

Test Date : 30/03/2025

Test Results :

The Help button in this page is tested. A pop-up appears which is shown below. This feature is working successfully.



Structural Coverage : 100%

Additional Comments : It is a simple pop up.

6. Booking Button

This booking button is placed in the navbar of the user.

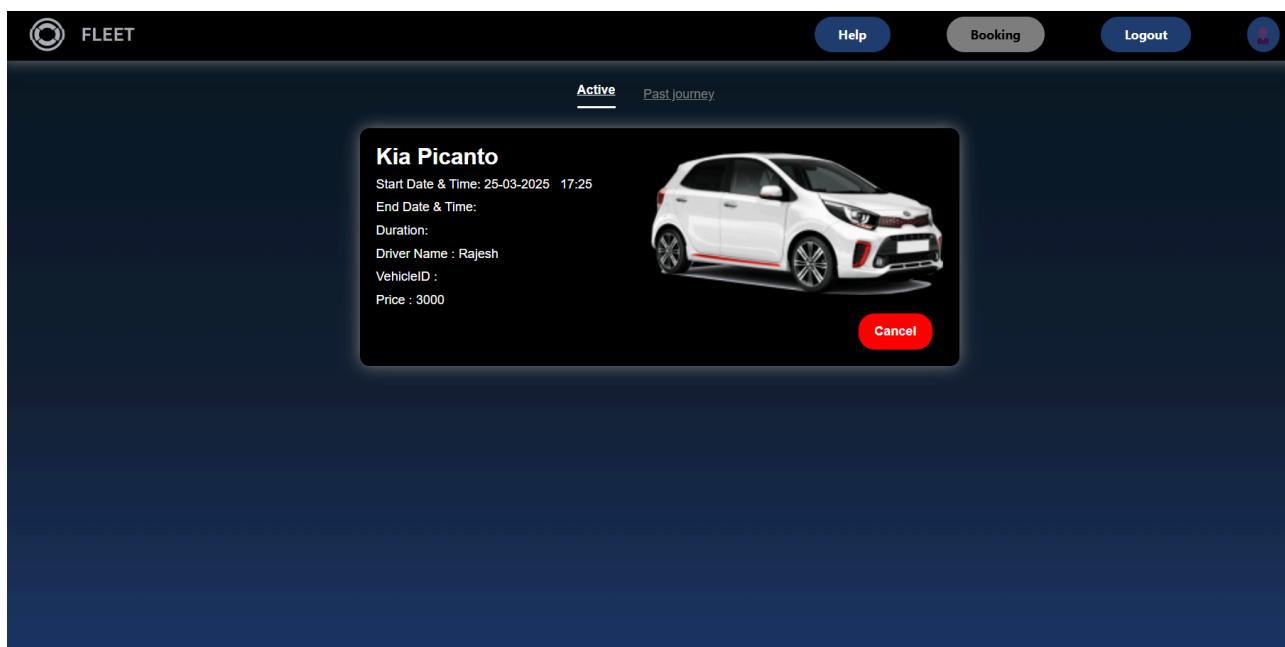
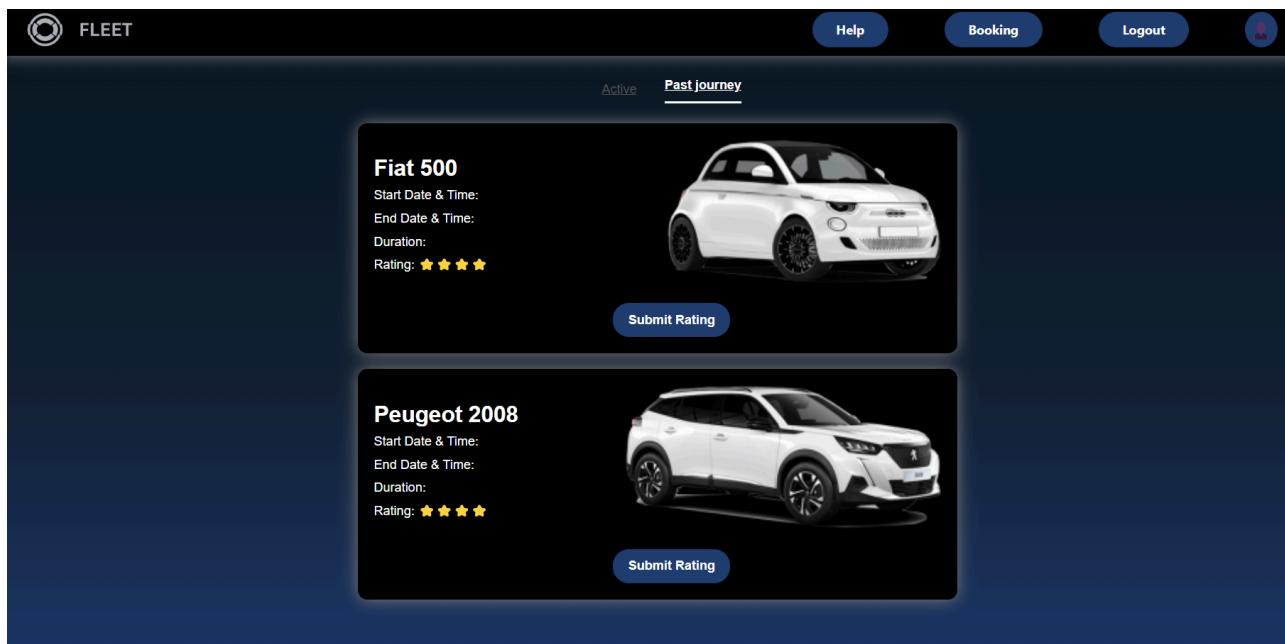
Unit Details : Bookings button on the navbar of user interface

Test Owner : Sai Prabhav

Test Date : 30/03/2025

Test Results :

The booking button in this page is tested. The bookings which are booked now and the bookings which are done in the past are shown. This feature is working successfully.



Structural Coverage : 100%

Additional Comments : We found some issues regarding navigation between active and past but we fixed them.

7. User Home Page

In this page users can select options like select city, pickup date and time, return date and time and they can choose between their own driving and with the driver for booking vehicles.

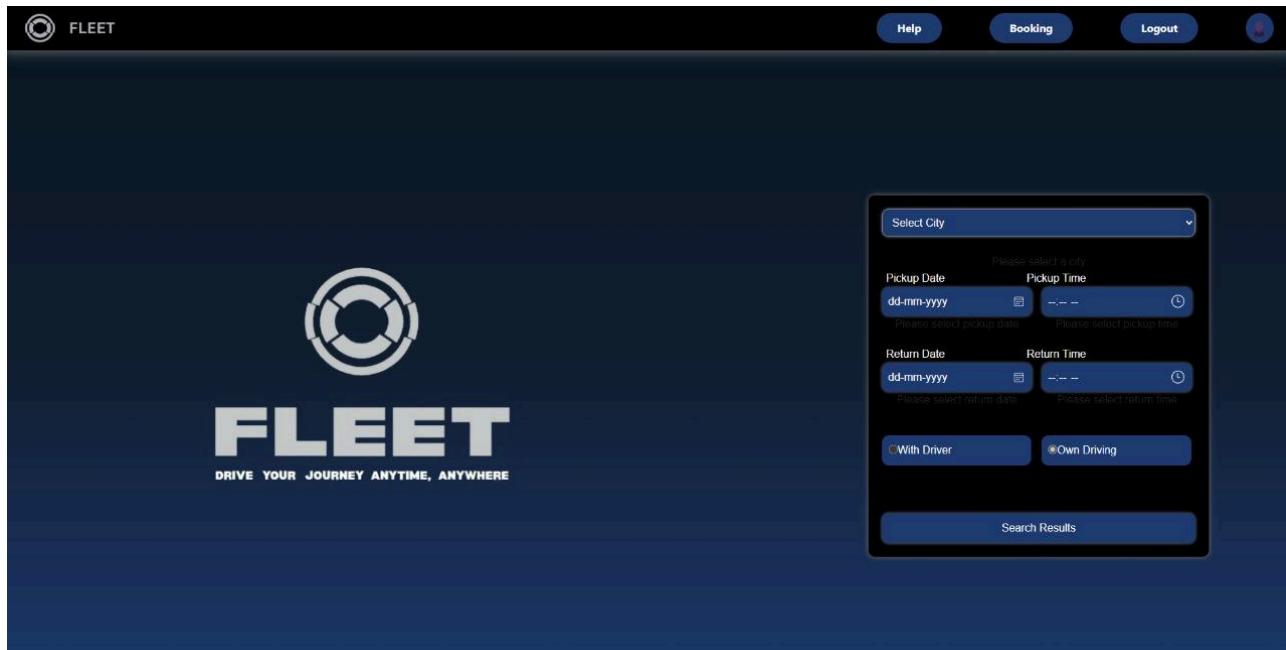
Unit Details : Home page for user interface

Test Owner : Koneti Karthik

Test Date : 02/04/2025

Test Results :

The user home page is tested and it is working perfectly.



Structural Coverage : 100%

Additional Comments : We found some CSS issues and we fixed them.

8. Profile Page

This Profile button is present in the user home page and admin home page, if we click this profile button the profile page gets opened.

Unit Details : Profile page

Test Owner : Reddi Pallavi

Test Date : 01/04/2025

Test Results :

This page is working successfully.

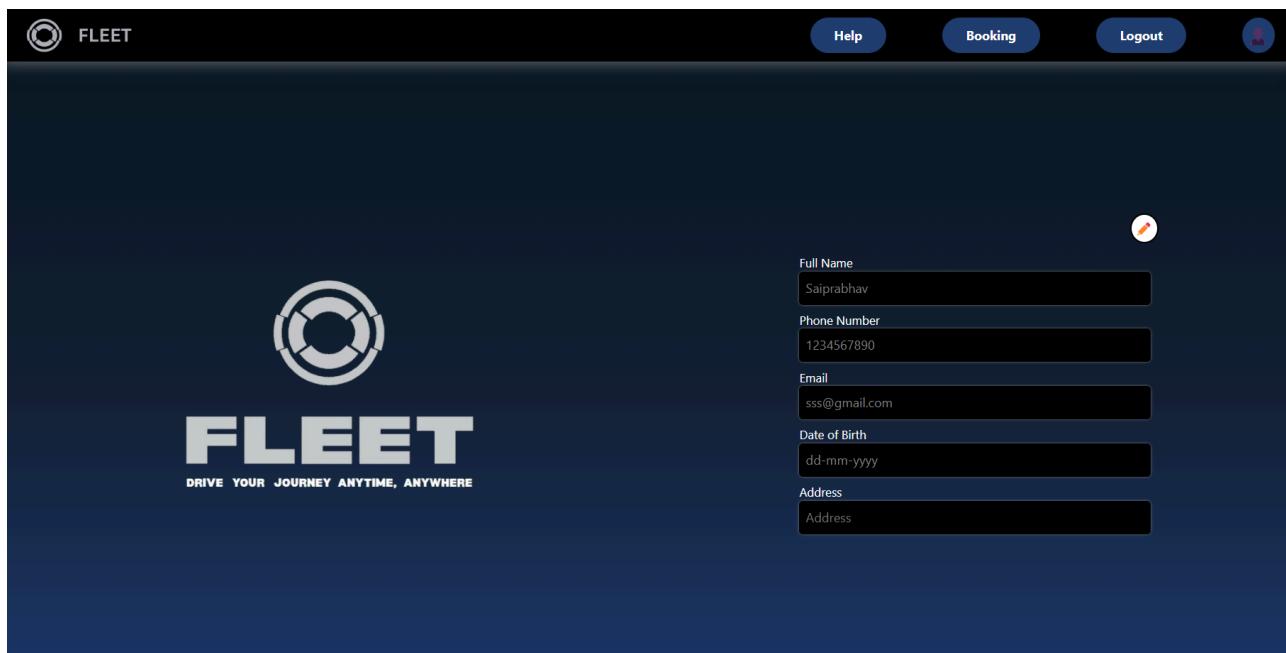
The screenshot shows a dark-themed user interface for a software application named "FLEET". At the top, there is a navigation bar with icons for "Help", "Booking", "Logout", and a user profile. On the left side, the "FLEET" logo is displayed, featuring a stylized circular icon above the word "FLEET" and the tagline "DRIVE YOUR JOURNEY ANYTIME, ANYWHERE" below it. On the right side, there is a registration form with input fields for "Full Name", "Phone Number", "Email", "Date of Birth", and "Address". Each field has a small edit icon (pencil) to its right. The background of the interface is a dark blue gradient.

Full Name	<input type="text"/>
Phone Number	<input type="text"/>
Email	<input type="text"/>
Date of Birth	<input type="text"/> dd-mm-yyyy
Address	<input type="text"/>

The screenshot shows the same dark-themed user interface for the "FLEET" software. The registration form on the right side now contains populated data: "Full Name" is "Saiprabhav", "Phone Number" is "1234567890", "Email" is "sss@gmail.com", and "Address" is empty. A "Save" button is visible at the bottom of the form. The background remains a dark blue gradient.

Full Name	<input type="text"/> Saiprabhav
Phone Number	<input type="text"/> 1234567890
Email	<input type="text"/> sss@gmail.com
Date of Birth	<input type="text"/> dd-mm-yyyy
Address	<input type="text"/>

Save



The profile page is to change details of the person using this website.

The features we checked in this profile page are phone number should be 10 digits, email should be valid etc.

Structural Coverage : 100%

Additional Comments : We found some css issues and we fixed them.

9. User Vehicles page

This page contains all vehicles which are there and we can filter this based on cars, bikes, available, not available, price, rating.

Unit Details : User vehicles page

Test Owner : Manam Amara Gayathri

Test Date : 01/04/2025

Test Results :

All filters in this page are working successfully.

If we click the All button it shows all vehicles.

Kia Picanto
Type: Car
Price: \$3000/day
Availability: Yes
Rating: 4.2 ★
Driver: Pallavi
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

Fiat 500
Type: Car
Price: \$2500/day
Availability: Yes
Rating: 4.8 ★
Driver:
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

Peugeot 2008
Type: Car
Price: \$2600/day
Availability: No
Rating: 4.4 ★
Driver:
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

Bajaj Avenger 150
Type: Bike
Price: \$1900/day
Availability: Yes
Rating: 4.1 ★
Driver:
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

If we click the Cars button it shows cars.

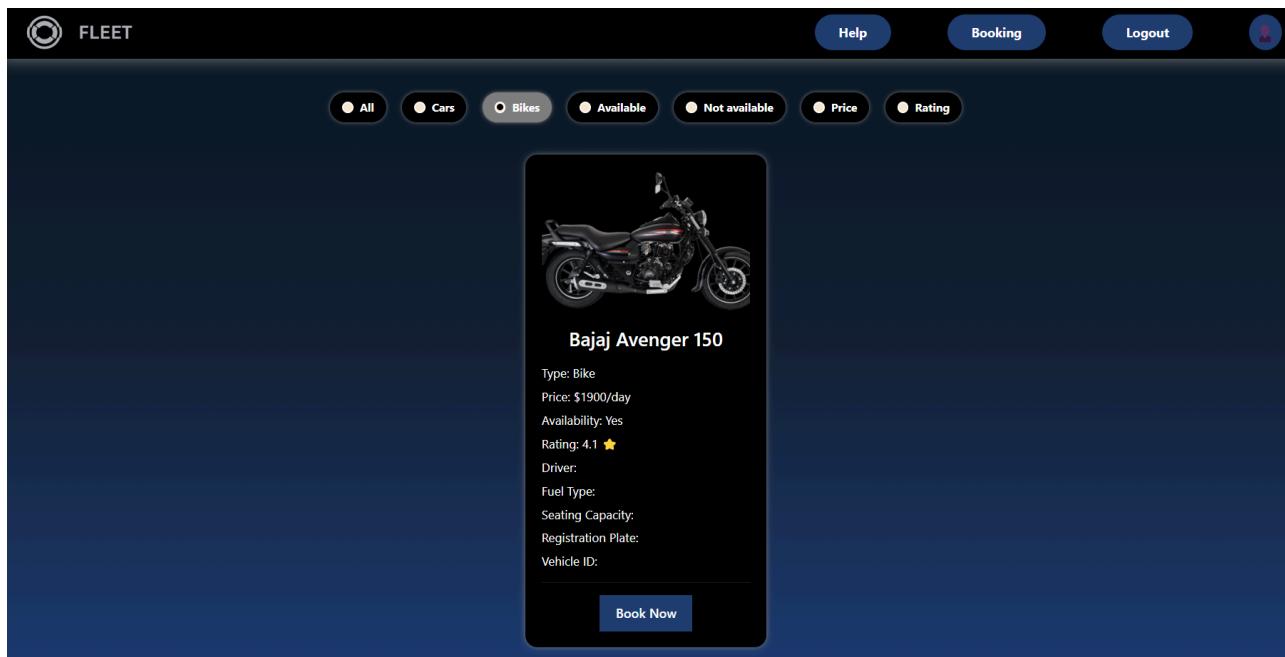
Kia Picanto
Type: Car
Price: \$3000/day
Availability: Yes
Rating: 4.2 ★
Driver: Pallavi
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

Fiat 500
Type: Car
Price: \$2500/day
Availability: Yes
Rating: 4.8 ★
Driver:
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

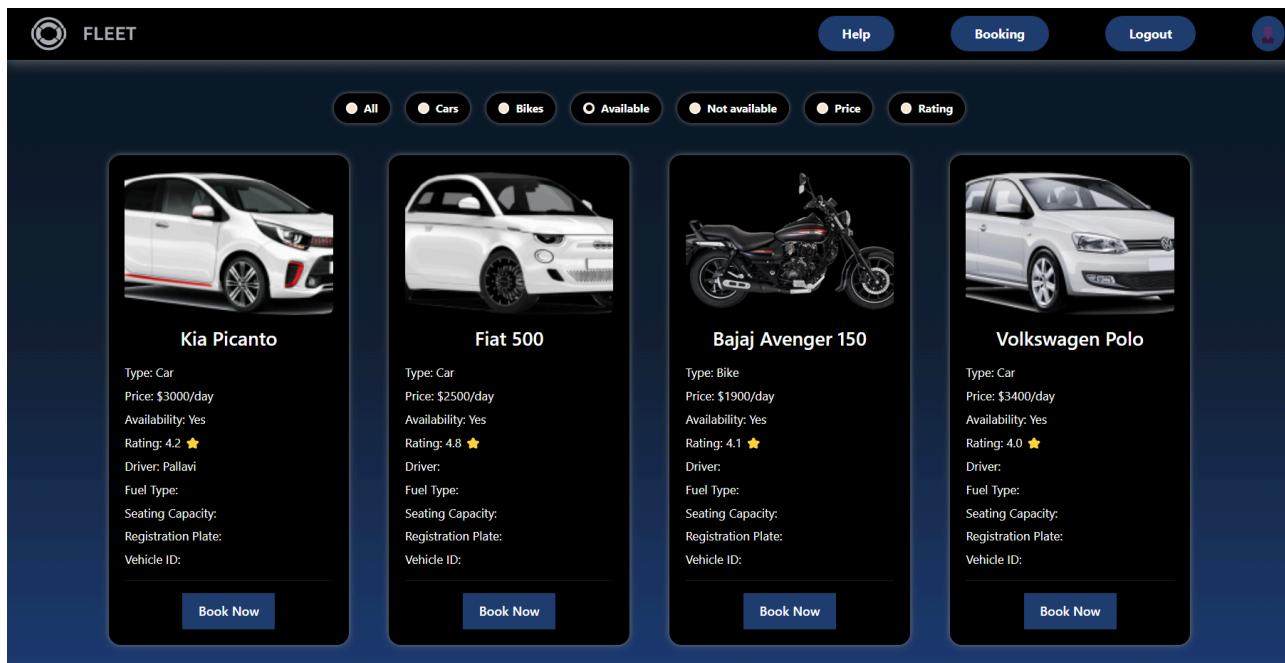
Peugeot 2008
Type: Car
Price: \$2600/day
Availability: No
Rating: 4.4 ★
Driver:
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

Volkswagen Polo
Type: Car
Price: \$3400/day
Availability: Yes
Rating: 4.0 ★
Driver:
Fuel Type:
Seating Capacity:
Registration Plate:
Vehicle ID:
Book Now

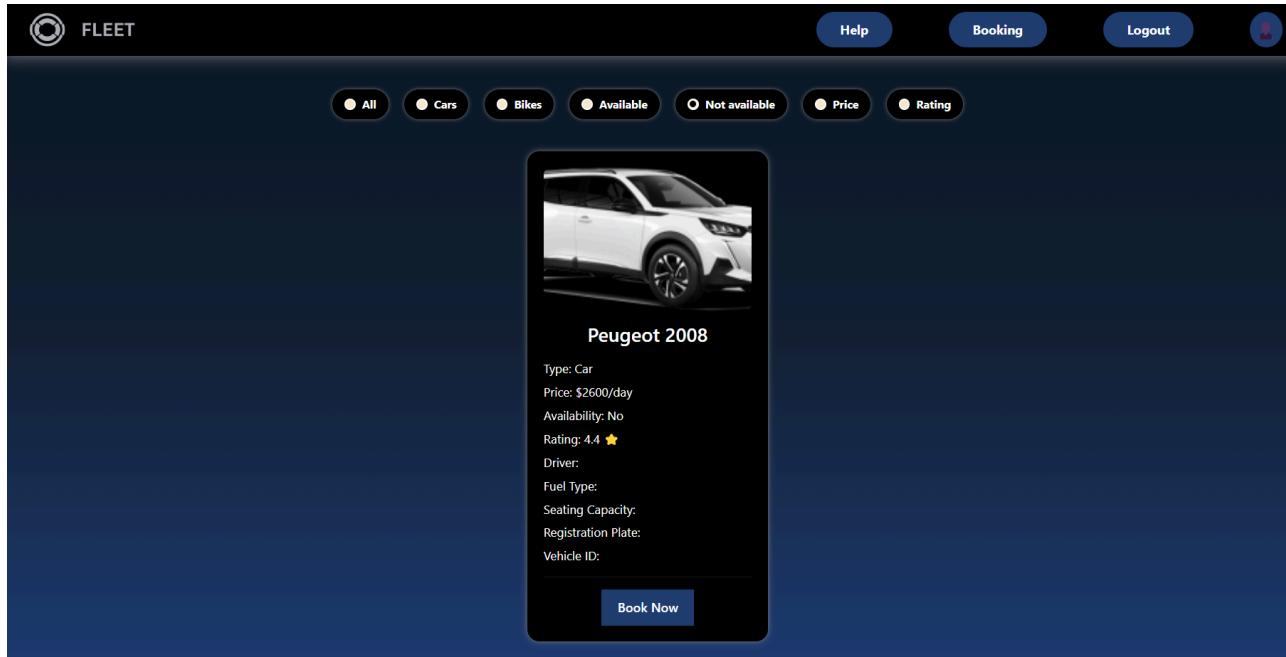
If we click the Bikes button it shows bikes.



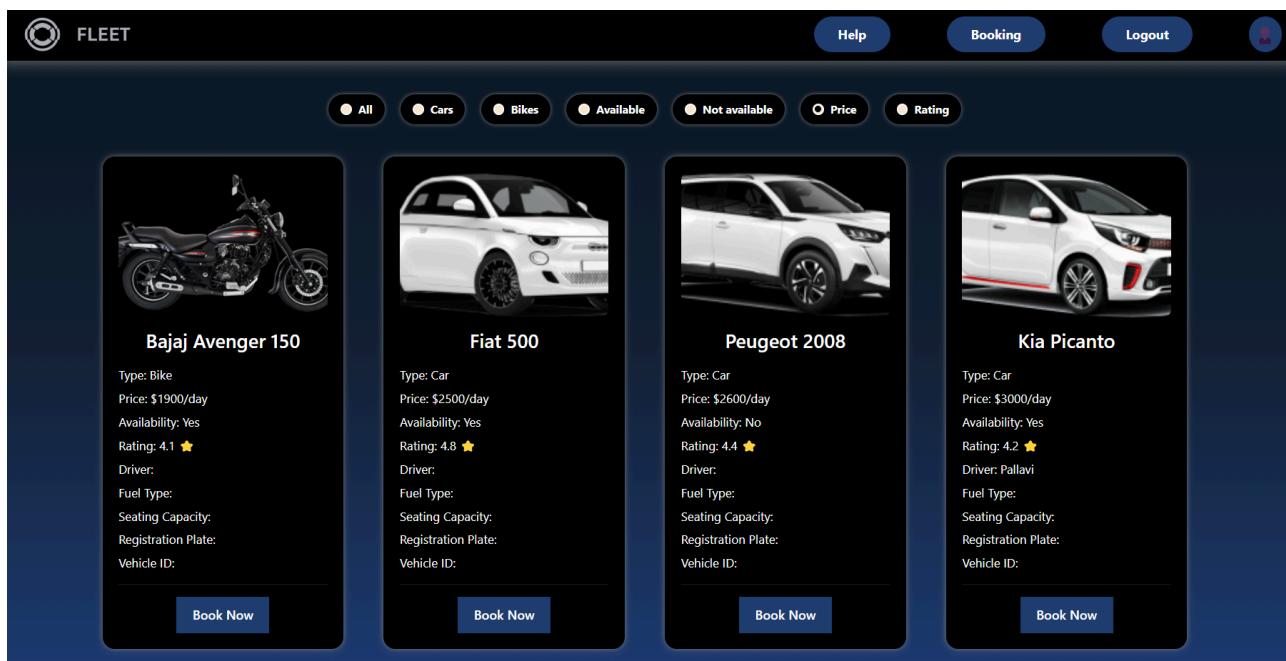
If we click the Available button it shows available vehicles for booking.



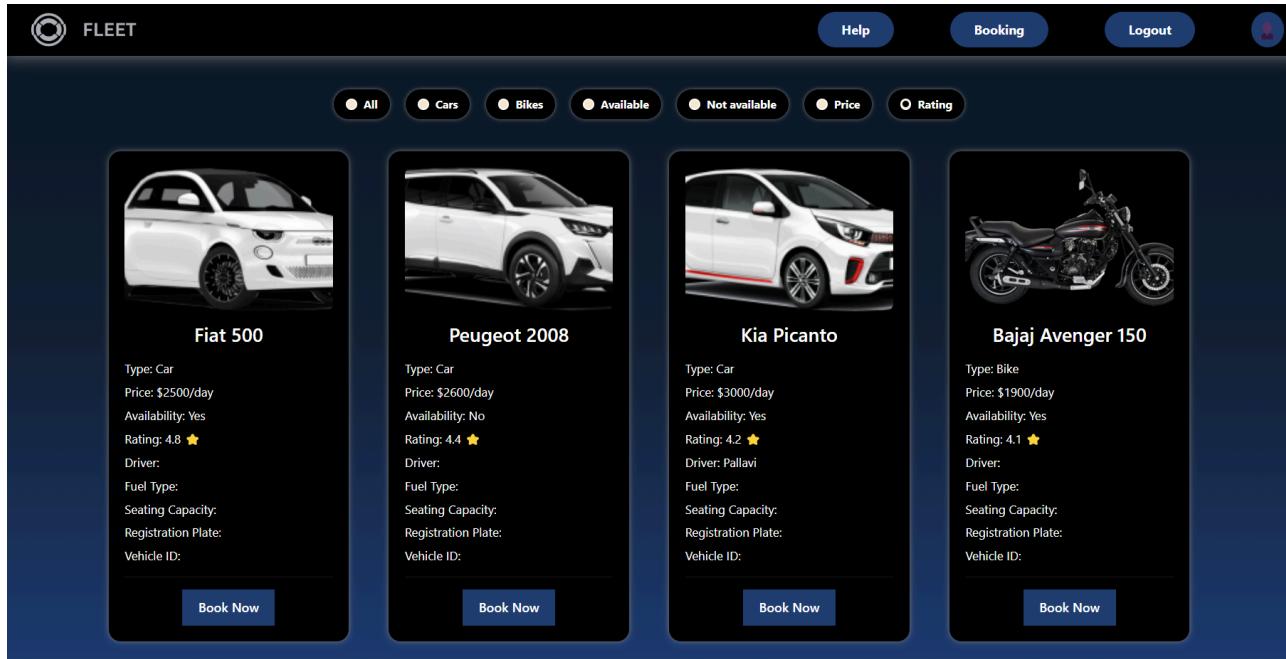
If we click the Not Available Button it shows the vehicles which are not available for booking.



If we click the price button the vehicles are displayed from least price to highest price.



If we click the Rating button the vehicles are displayed from highest rating to least rating.



Structural Coverage : 100%

Additional Comments : We have changed the css, everything is working fine.

10. Book Now Button

This button is present in the user vehicles page, if we click this it goes to the price details popup.

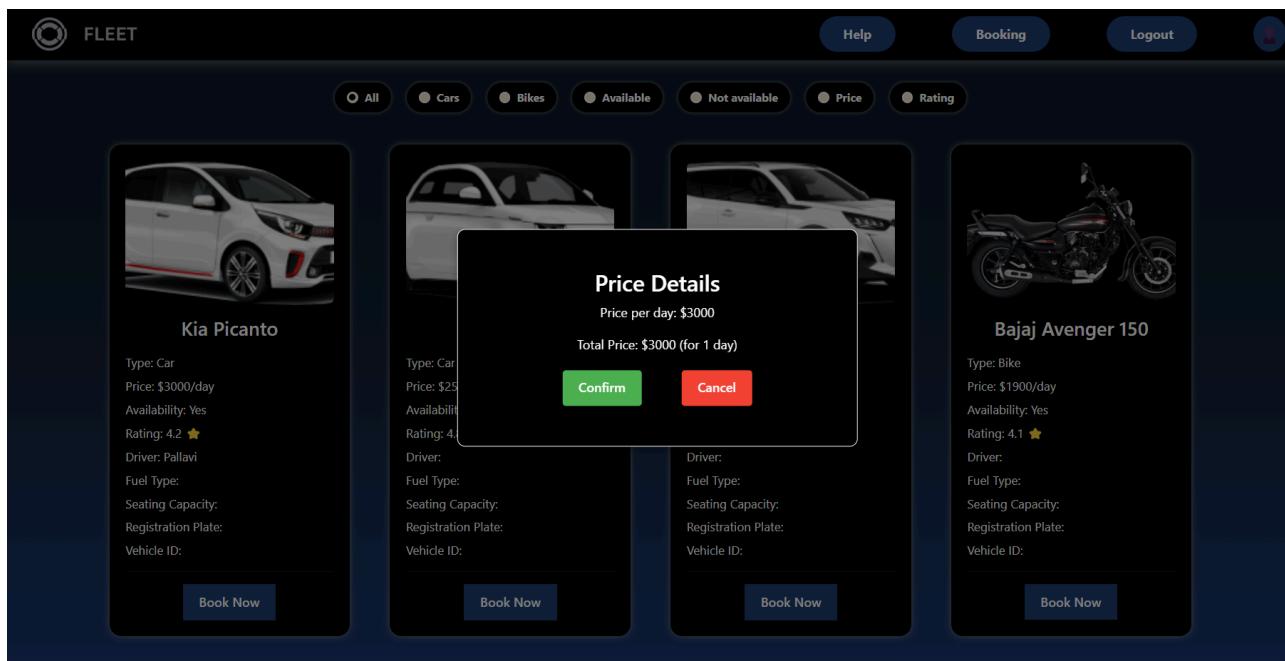
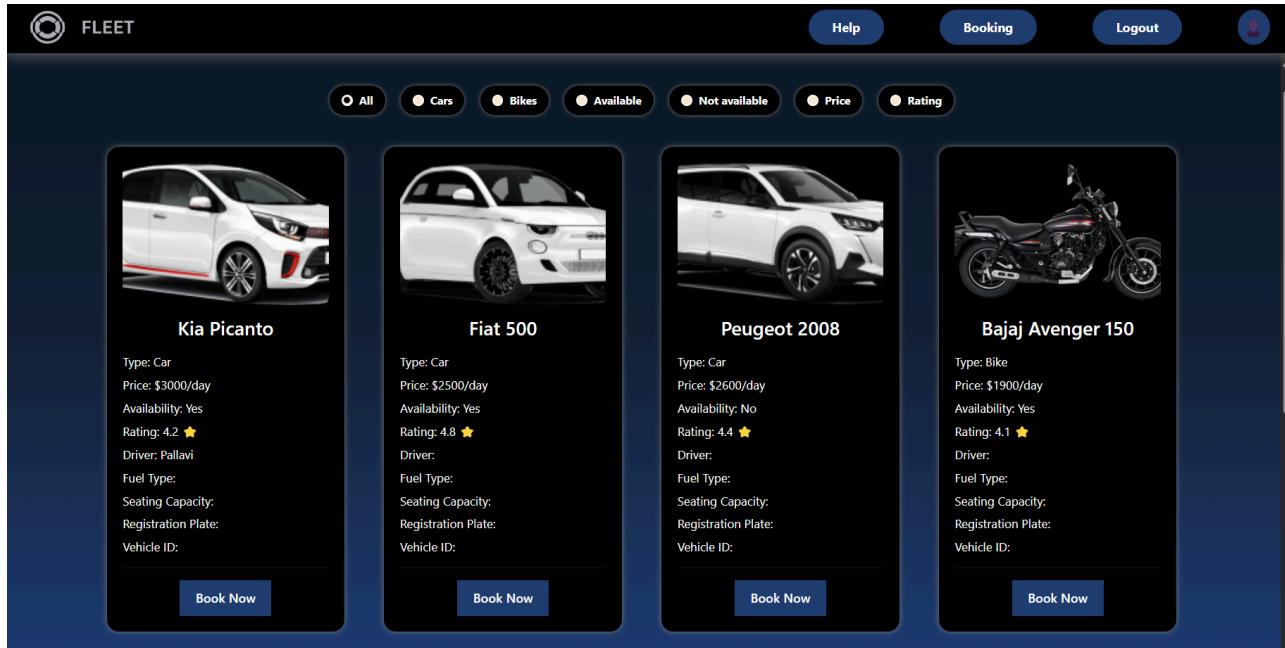
Unit Details : Book Now button in user

Test Owner : Pasala Bosu Akil Teja

Test Date : 04/04/2024

Test results :

This page is working properly.



If i click the Cancel button it returns to the user vehicles page.

Structural Coverage : 100%

Additional Comments : It is working properly, we didn't find any bugs.

11. Booking Type - Delivery

Unit Details : Page to select Booking Type and choose Delivery option

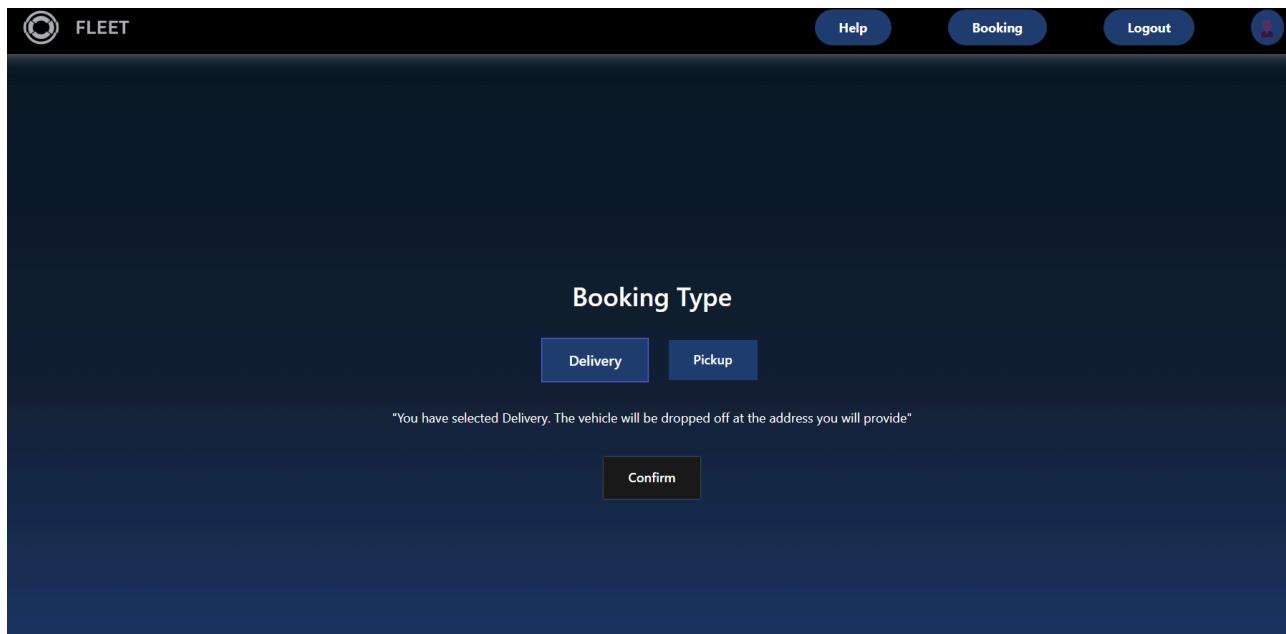
Test Owner : Reddi Pallavi

Test Date : 02/04/2025

Test results :

This page is working properly.

This page appears after clicking Book Now in self driving case



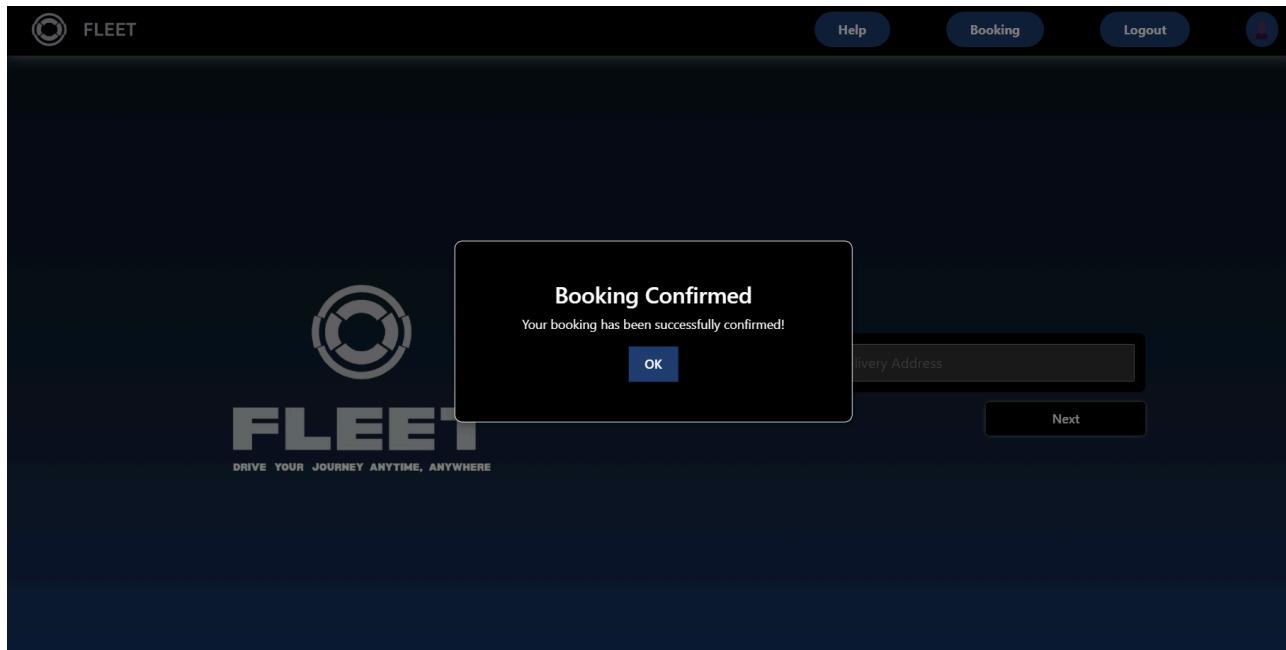
Selecting the Delivery option triggers the Terms & Conditions page.

The screenshot shows a dark-themed mobile application interface. At the top, there is a navigation bar with icons for Help, Booking, Logout, and a user profile. Below the navigation bar, a white rectangular box contains the title "Terms and Conditions". Underneath the title are four sections: "1. User Agreement", "2. Rental Policies", "3. Payment Options", and "4. Liability", each with a bulleted list of rules. At the bottom right of the white box are two buttons: a green "Agree and Confirm" button and a red "Cancel" button.

Upon agreement, the user is prompted to enter the delivery address.

The screenshot shows the Fleet platform's delivery address input screen. It features the Fleet logo at the top left and a "DRIVE YOUR JOURNEY ANYTIME, ANYWHERE" tagline below it. In the center, there is a search bar with a location pin icon and the placeholder text "Enter Delivery Address". At the bottom right of the screen is a large, prominent "Next" button.

After confirming, a “Booking Confirmed” popup appears and the booking moves to Active Booking state.



If the Cancel button is clicked at any point, the user is redirected to the User Vehicles page.

All paths, including selection, confirmation and cancellation are tested.

Structural Coverage : 100%

Additional Comments :

- Delivery address input is correctly triggered after terms and conditions acceptance.
- Cancel button redirects appropriately.
- Popup and state update confirmed.

12. Booking Type - Pickup

Unit Details : Page to select Booking Type and choose Pickup option

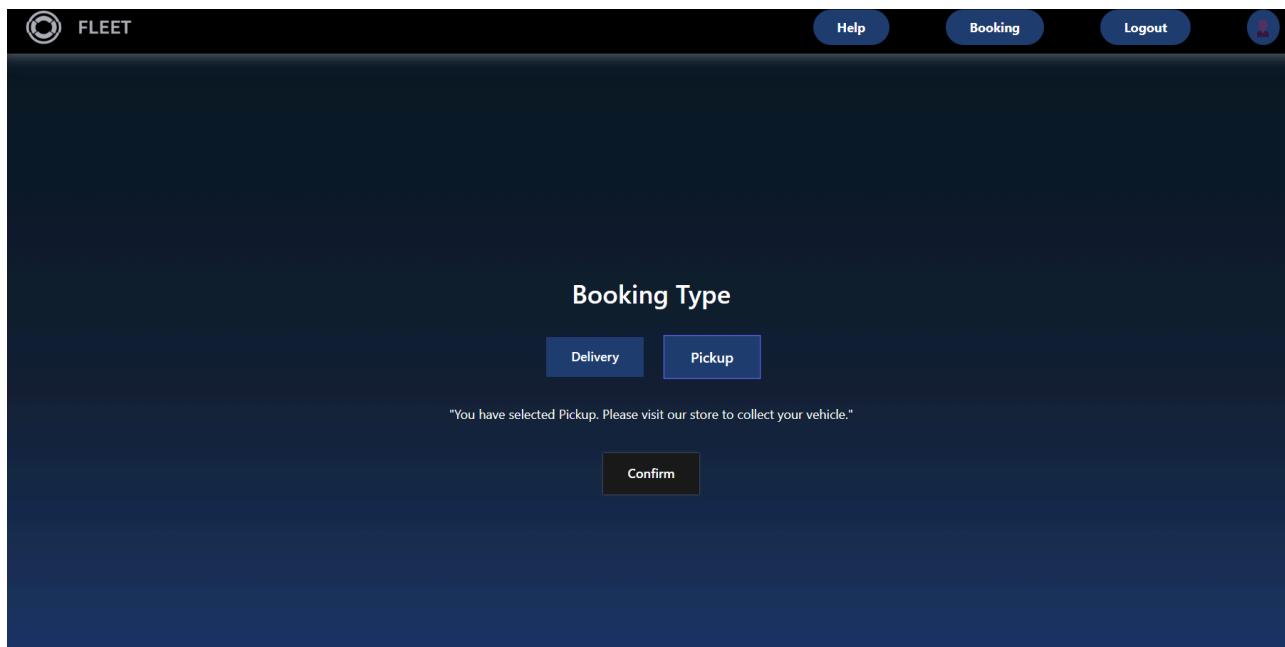
Test Owner : Manam Amara Gayathri

Test Date : 02/04/2025

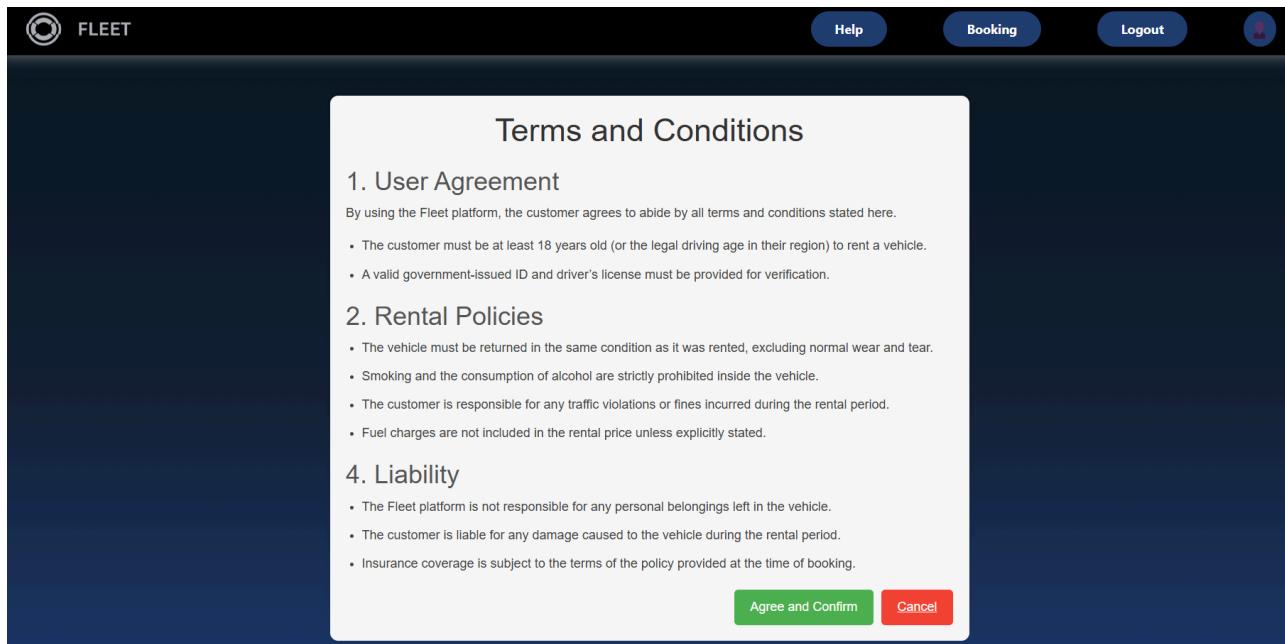
Test results :

This page is working properly.

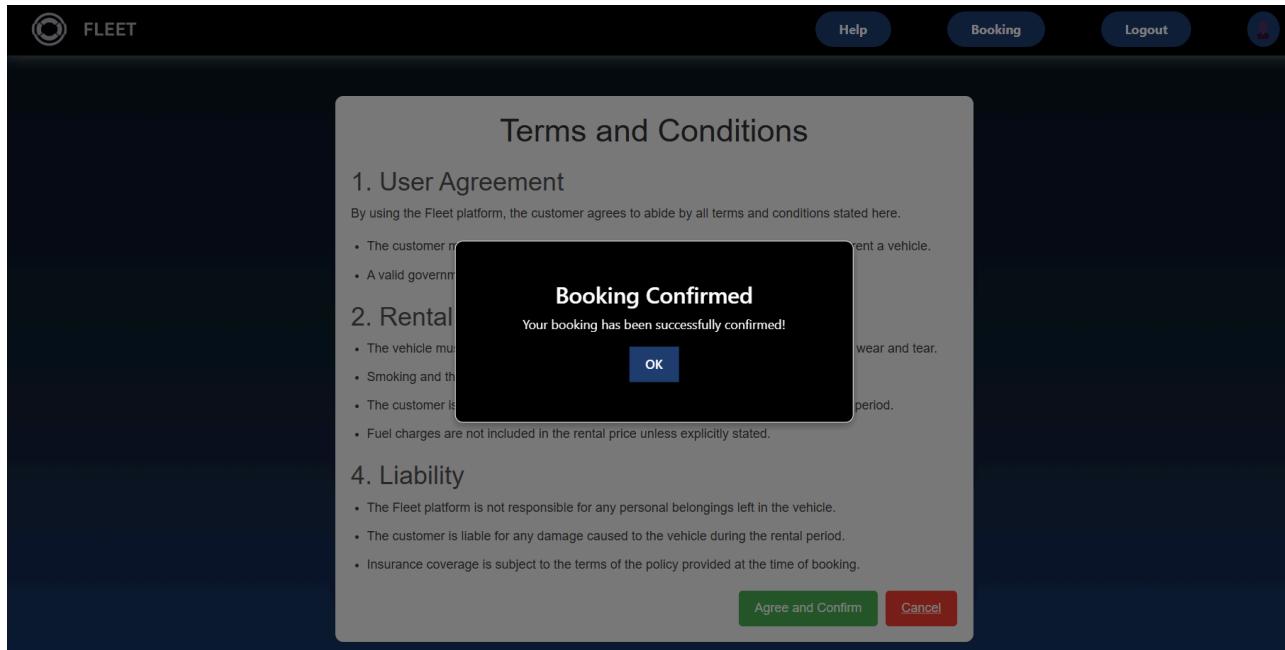
This page appears after clicking Book Now in self driving case



Selecting the Pickup option triggers the Terms & Conditions.



Upon agreement, a “Booking Confirmed” popup appears and the booking moves to the Active Booking state



If the Cancel button is clicked at any point, the user is redirected to the User Vehicles page.

All paths, including selection, confirmation and cancellation are tested.

Structural Coverage : 100%

Additional Comments :

- Cancel button redirects appropriately.
- Popup and state update confirmed.

13. User Location page

After clicking I Agree, the user goes to this page in which the user gives his location.

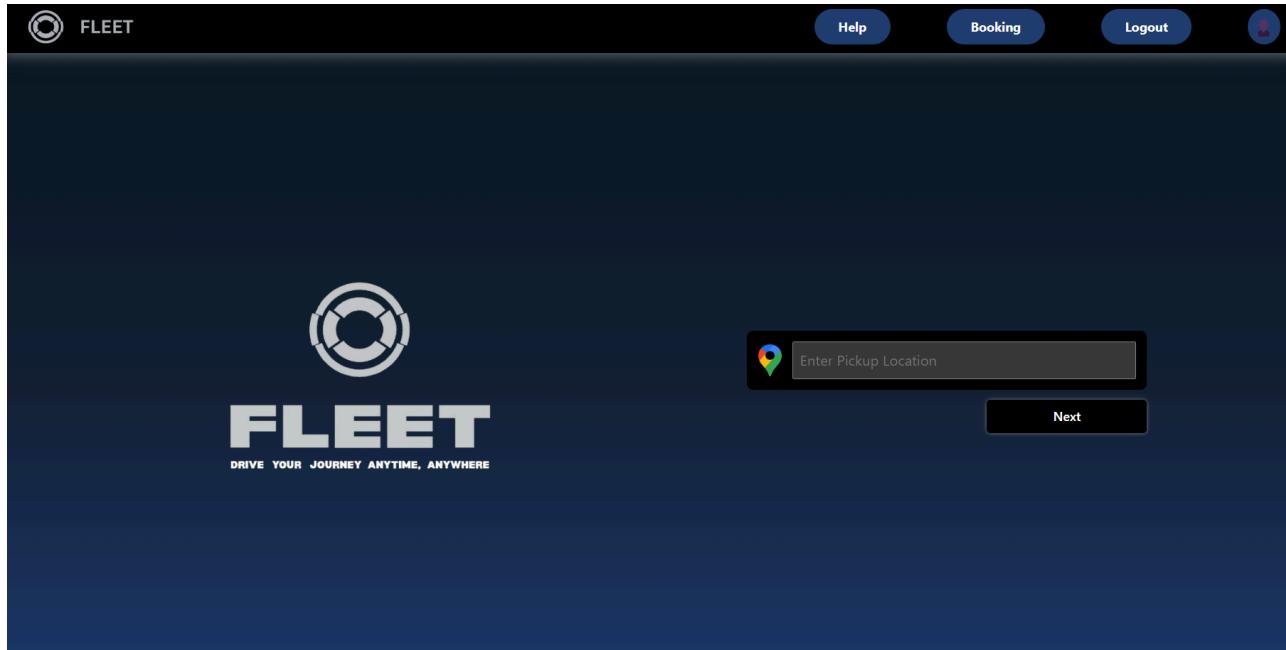
Unit Details : Location page

Test Owner : Shashi Bhidodiya

Test Date : 01/04/2025

Test Results :

This location page is working properly, it stored the data perfectly.



Structural Coverage : 100%

Additional Comments : It will take the user's address to deliver the vehicle or to help the driver locate the user.

14. My vehicles page

Unlike the user's vehicle page this page has the option to edit and delete a specific vehicle.

Unit Details : Admin vehicles page

Test Owner : Pittala Sruthi

Test Date : 02/04/2025

Test Results :

When we clicked the Edit button it went to edit vehicle page and the details got updated.

The screenshot shows two pages of a fleet management application.

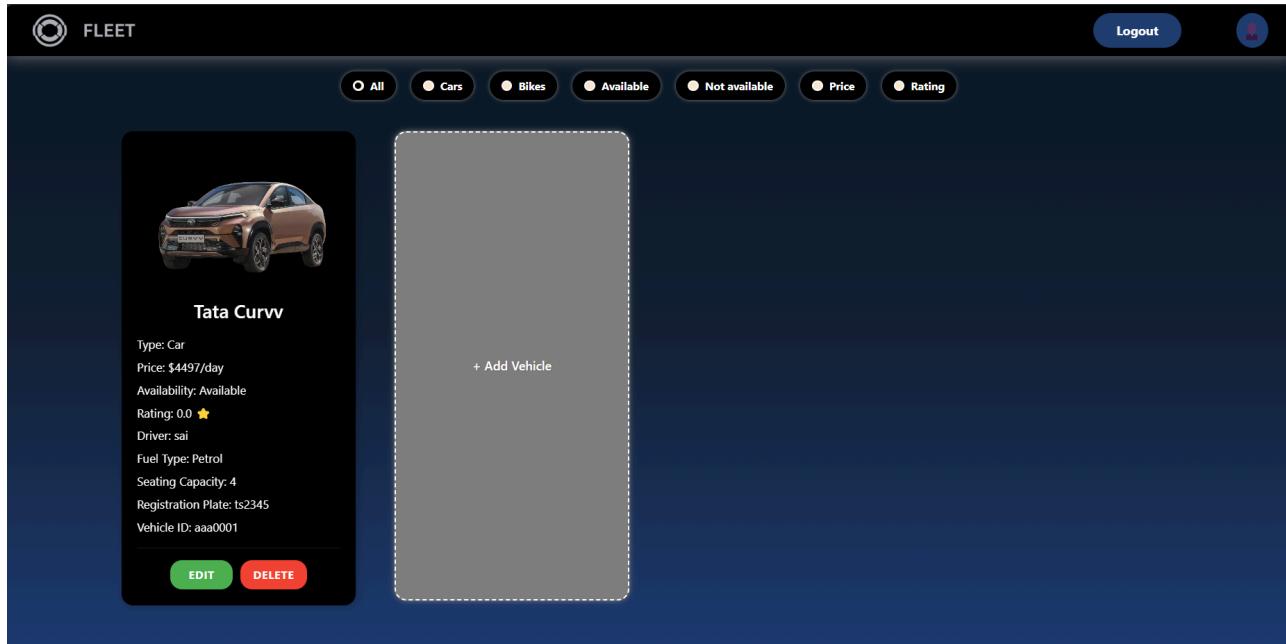
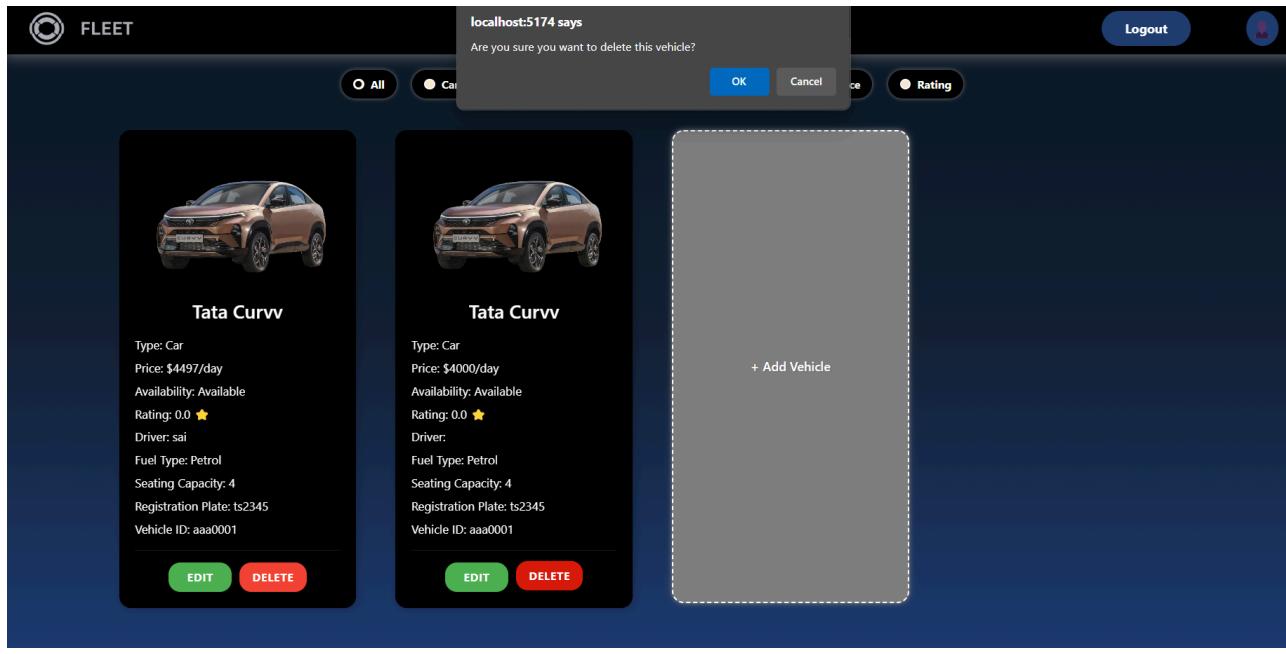
Add New Vehicle Page:

- Header: FLEET, Logout, User icon.
- Title: Add New Vehicle.
- Form fields:
 - Radio button: With Driver (selected).
 - Radio button: Without Driver.
 - Driver Name: ram
 - Driver ID: a234df
 - Vehicle Type: Car
 - Vehicle Name: Tata Curvv
 - Price per Day: 4000
 - Availability: Available

Vehicle List Page:

- Header: FLEET, Logout, User icon.
- Filter buttons: All, Cars, Bikes, Available, Not available, Price, Rating.
- Vehicle card for "Tata Curvv":
 - Image: Tata Curvv car.
 - Name: Tata Curvv
 - Type: Car
 - Price: \$4497/day
 - Availability: Available
 - Rating: 0.0 ★
 - Driver: sai
 - Fuel Type: Petrol
 - Seating Capacity: 4
 - Registration Plate: ts2345
 - Vehicle ID: aaa0001
 - Buttons: EDIT (green), DELETE (red).
- Empty placeholder box: + Add Vehicle.

When we clicked the Delete button a popup was shown to confirm the deletion then the vehicle got deleted.



Structural Coverage : 100%

Additional Comments : We found some issues regarding driver name but we debugged them.

15. Add Vehicle page

In the admin vehicles page there is a button for adding vehicles. If we click this we go to the Add Vehicle page where we fill in the details and add the new vehicle.

Unit Details : Page for adding vehicles

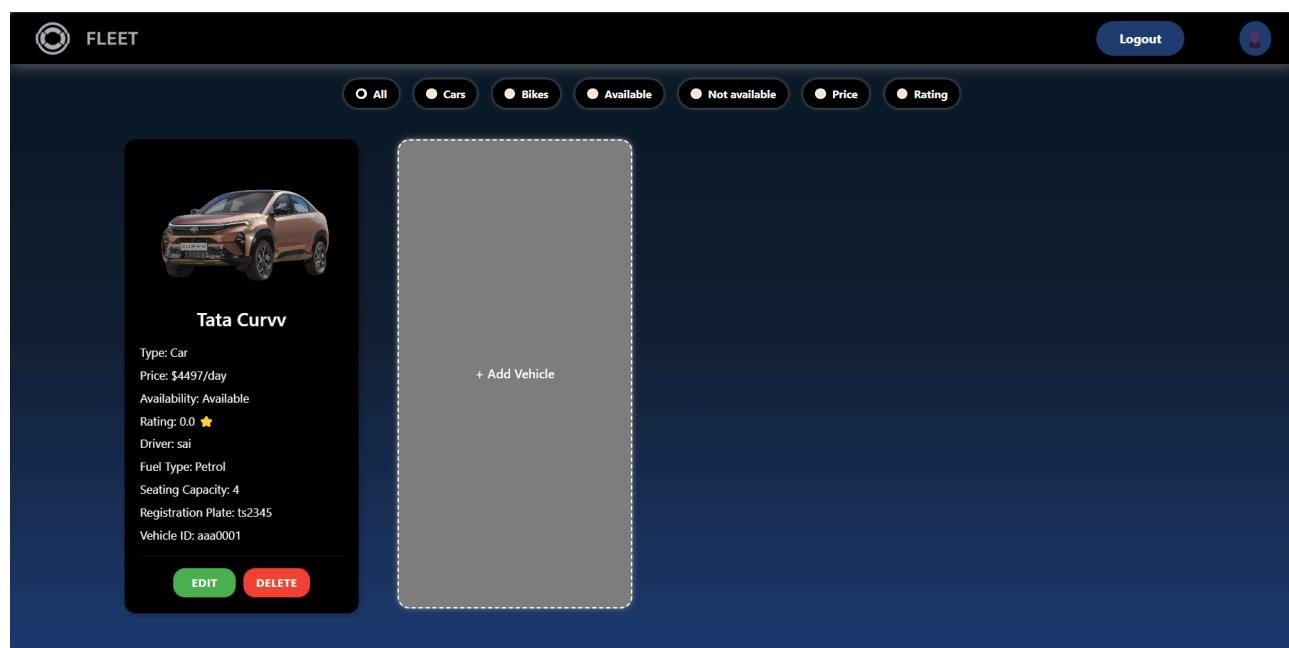
Test Owner : Habeeb Ramith Kumar

Test Date : 04/04/2025

Test Results:

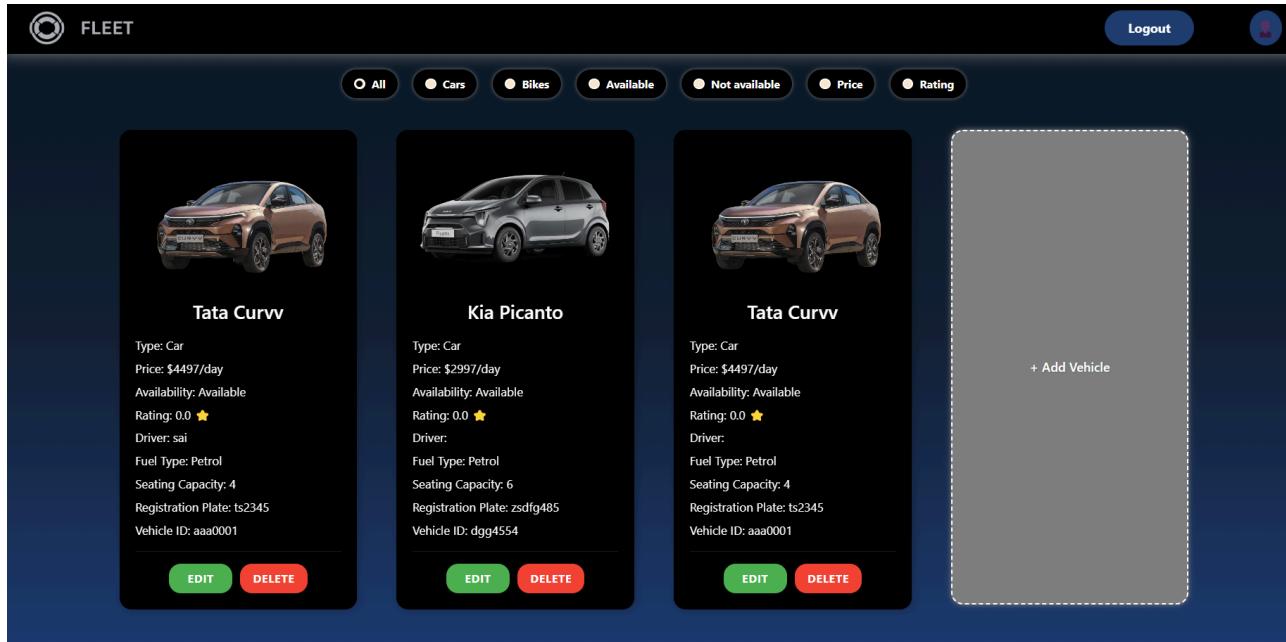
There are two options for adding a vehicle with a driver and without driver we have checked both of the options and they are working.

This is for Without Driver case



The screenshot shows a dark-themed user interface for adding a new vehicle. At the top left is a logo with a camera icon and the word "FLEET". At the top right are "Logout" and profile icons. The main title "Add New Vehicle" is centered above a row of two radio buttons: "With Driver" (unselected) and "Without Driver" (selected). Below these are nine input fields: "Vehicle Type" (Car), "Vehicle Name" (Tata Curvv), "Price per Day" (45000), "Availability" (Available), "Initial Rating" (0.0), "Fuel Type" (Petrol), "Seating Capacity" (4), "Registration Plate" (ts2345), and "Vehicle ID" (aaa0001). A "Vehicle Image URL" field contains the value "https://zedextata.co.in/wf" and displays a thumbnail image of a gold-colored Tata Curvv SUV. A large green "ADD VEHICLE" button is at the bottom.

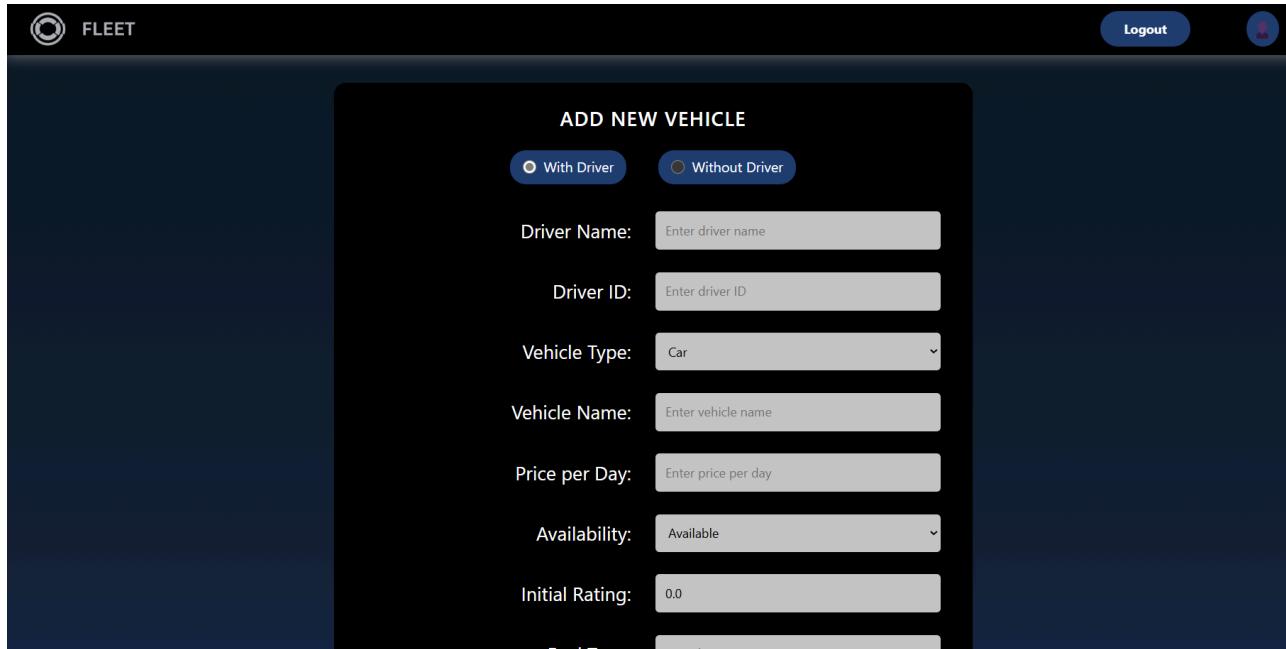
This is for With Driver case



The screenshot shows the Fleet Management System's main interface. At the top, there is a navigation bar with a logo, the word "FLEET", and a "Logout" button. Below the navigation bar are several filter buttons: "All", "Cars", "Bikes", "Available", "Not available", "Price", and "Rating". The main content area displays three vehicle cards:

- Tata Curvv**: Type: Car, Price: \$4497/day, Availability: Available, Rating: 0.0 ★, Driver: sai, Fuel Type: Petrol, Seating Capacity: 4, Registration Plate: ts2345, Vehicle ID: aaa0001. Buttons: EDIT, DELETE.
- Kia Picanto**: Type: Car, Price: \$2997/day, Availability: Available, Rating: 0.0 ★, Driver: , Fuel Type: Petrol, Seating Capacity: 6, Registration Plate: zsdflg485, Vehicle ID: dgg4554. Buttons: EDIT, DELETE.
- Tata Curvv**: Type: Car, Price: \$4497/day, Availability: Available, Rating: 0.0 ★, Driver: , Fuel Type: Petrol, Seating Capacity: 4, Registration Plate: ts2345, Vehicle ID: aaa0001. Buttons: EDIT, DELETE.

To the right of the cards is a large dashed rectangular box containing the text "+ Add Vehicle".



The screenshot shows the "ADD NEW VEHICLE" form. At the top, there are two radio buttons: "With Driver" (selected) and "Without Driver". The form fields are as follows:

- Driver Name:
- Driver ID:
- Vehicle Type:
- Vehicle Name:
- Price per Day:
- Availability:
- Initial Rating:
- Fuel Type:

Structural Coverage : 100%

Additional Comments : We found minor bugs regarding css and we have debugged them, now everything is working fine.

16. Drivers List page

All the information about the drivers is shown here, we can edit and delete the driver.

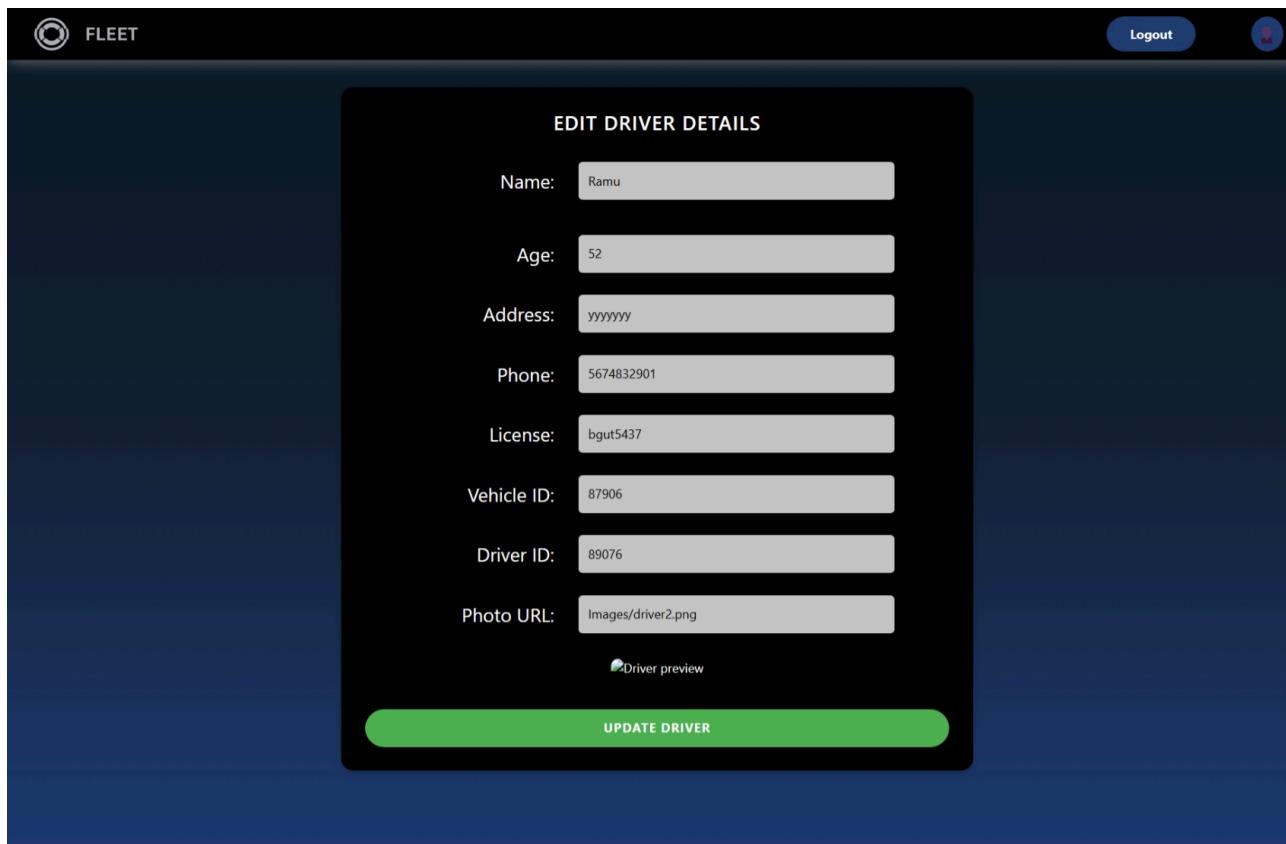
Unit Details : Driver list page for admin

Test Owner : Jyothika Seru

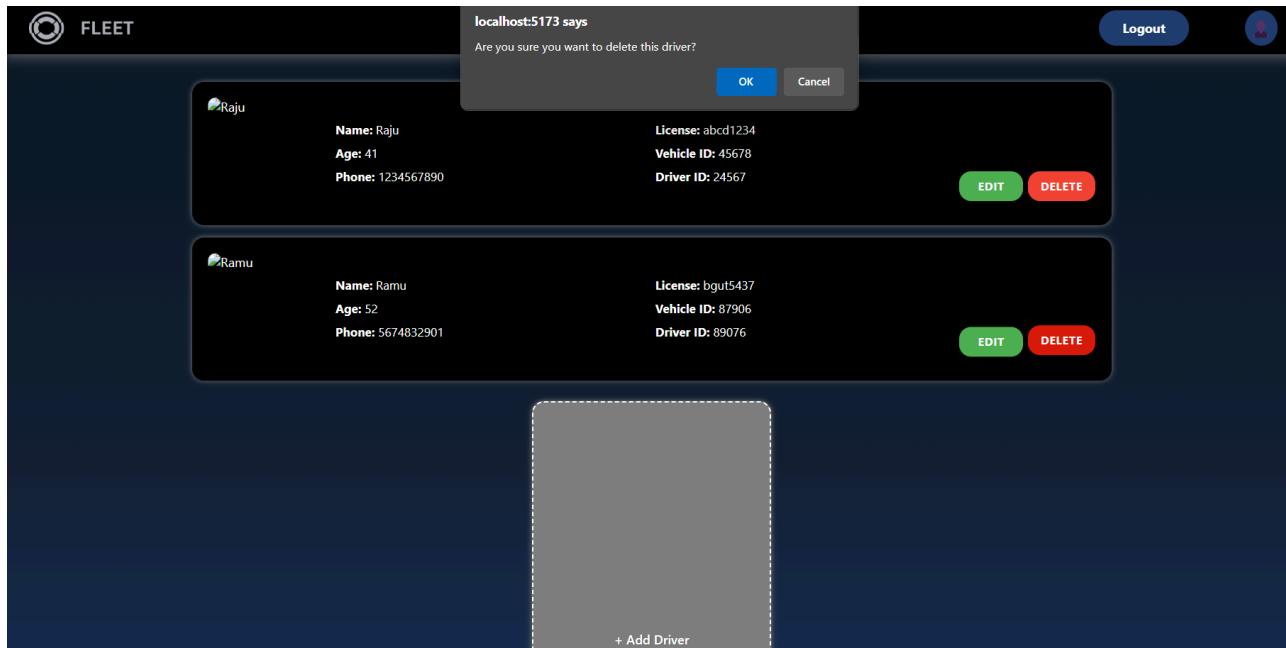
Test Date : 04/04/2025

Test Results :

When we clicked the Edit button it went to edit the driver page and the details got updated.



When we clicked the Delete button a popup was shown to confirm the deletion then the driver got deleted.



Structural Coverage : 100%

Additional Comments : It is working fine, we didn't find any bugs

17. Add Driver page

In the My Vehicles page there is a button for adding drivers, if we click this we go to the Add Driver page where we fill in the details and add the new driver.

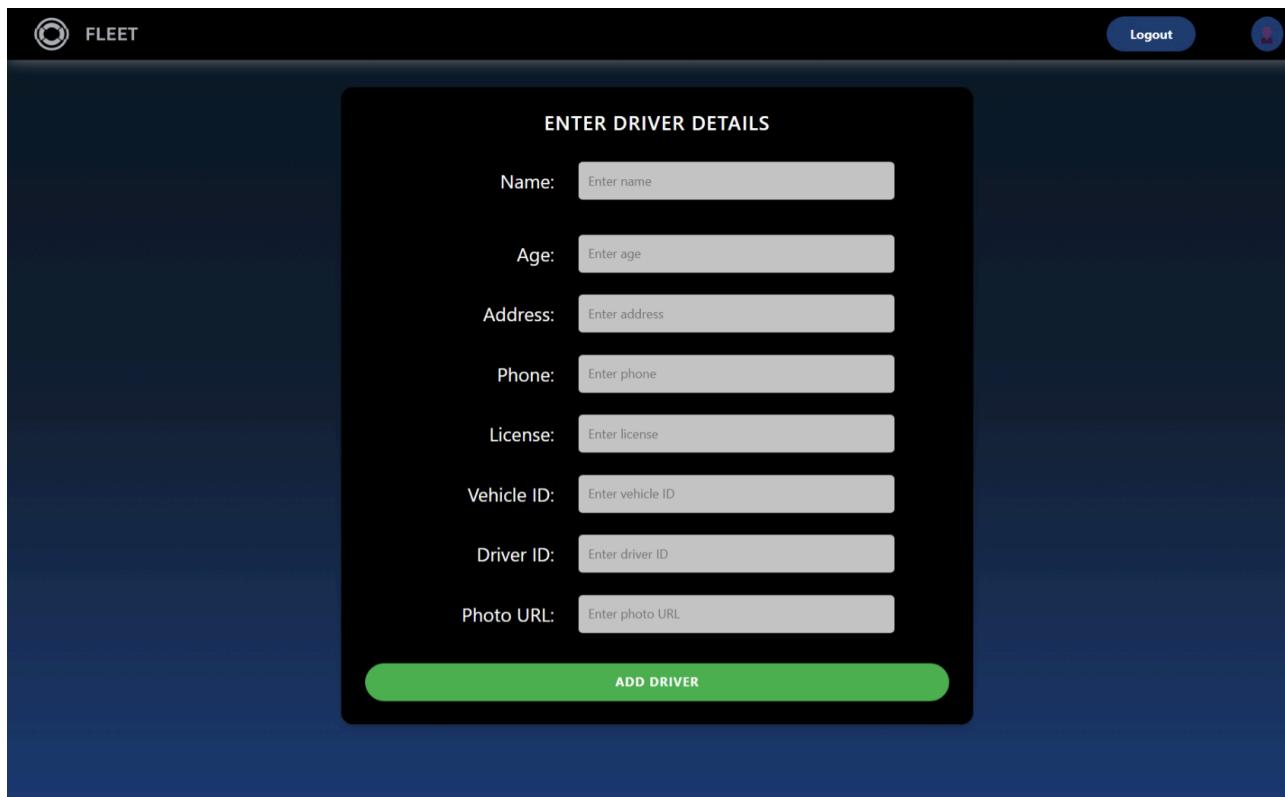
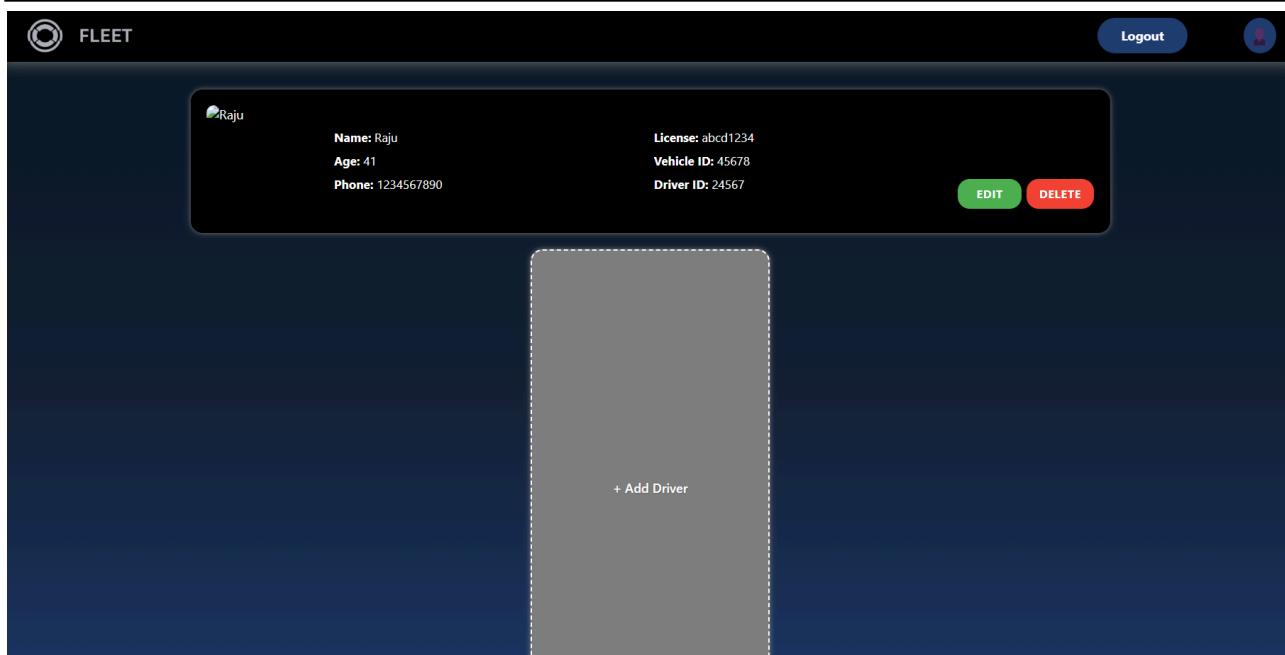
Unit Details : Form for adding new drivers

Test Owner : Koneti Karthik

Test Date : 03/04/2025

Test Results :

The Add Driver button worked well and the driver was added.



Structural Coverage : 100%

Additional Comments : To edit drivers, we are redirected to this page. We found some minor bugs while adding images, but we have resolved them.

3 Integration Testing

1. Admin - Vehicle Management (Add, Edit, Delete)

Module Details : This module covers the integration testing of the admin functionalities related to vehicle management, ensuring that vehicles are correctly added, edited and deleted from the database and that these updates are reflected on the admin page.

Test Owner : Pasala Bosu Akil Teja

Test Date : 01/04/2025

Test Results :

1. Adding Vehicles :

- Verified that a new vehicle entry is correctly stored in the database.
- Checked that the vehicle appears on the admin page after addition.
- Ensured that incorrect or incomplete data prompts appropriate validation errors.

2. Editing Vehicles :

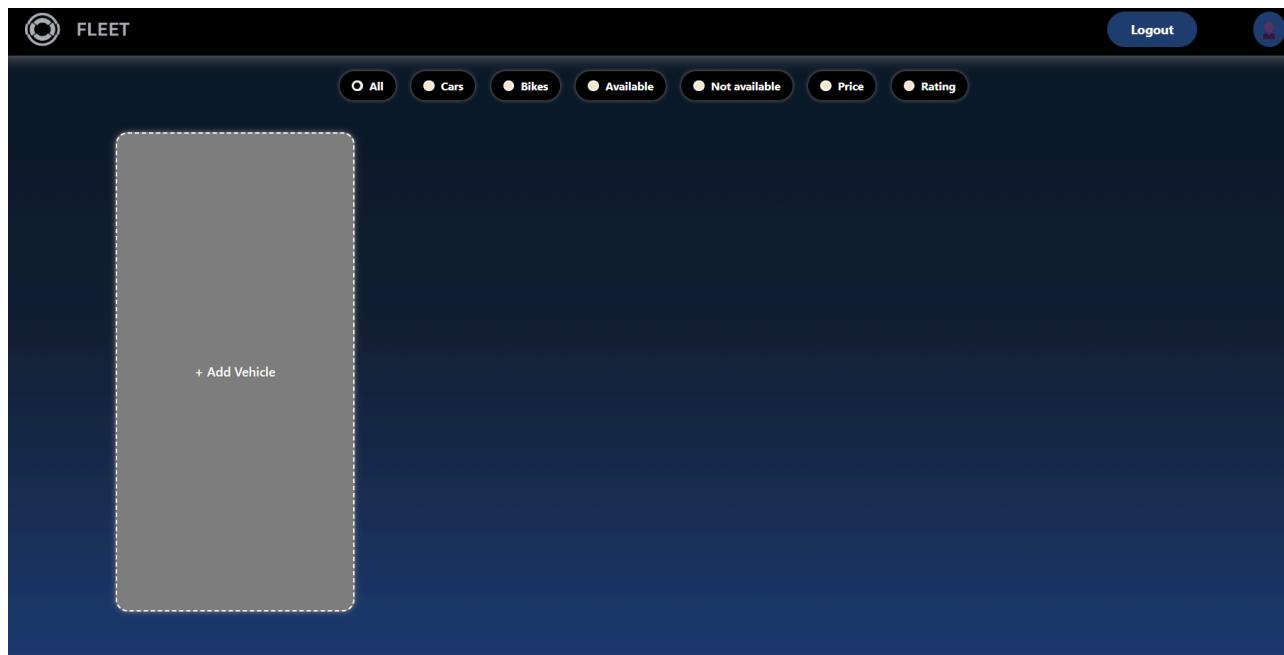
- Confirmed that updates made to vehicle details reflect correctly in the database.
- Ensured that modified details appear correctly on the admin page.
- Verified that validation rules are enforced when editing vehicle information.

3. Deleting Vehicles :

- Ensured that deleted vehicles are removed from the database.
- Checked that deleted vehicles no longer appear on the admin page.
- Verified that appropriate confirmation messages are displayed before deletion.

Additional Comments :

- The database was checked before and after each operation to ensure data integrity.
- UI verification was conducted to ensure changes reflect in real-time without requiring a manual refresh.
- No major issues were found, but performance optimization may be required for handling large datasets.



The screenshot shows a mobile application interface for adding a new vehicle. At the top, there is a header bar with a logo on the left, a 'Logout' button on the right, and a user icon in the top right corner. Below the header is a large central modal titled 'Add New Vehicle'. Inside the modal, there are two radio buttons at the top: 'With Driver' (selected) and 'Without Driver'. The form consists of ten input fields, each with a label and a placeholder text box:

- Driver Name: Enter driver name
- Driver ID: Enter driver ID
- Vehicle Type: Car (dropdown menu)
- Vehicle Name: Enter vehicle name
- Price per Day: Enter price per day
- Availability: Available (dropdown menu)
- Initial Rating: 0.0
- Fuel Type: Petrol (dropdown menu)
- Seating Capacity: Enter seating capacity
- Registration Plate: Enter registration plate
- Vehicle ID: Enter vehicle ID
- Vehicle Image URL: Enter image URL

At the bottom of the modal is a large green button labeled 'ADD VEHICLE'.

MongoDB Compass - localhost:27017/fleet.vehicles

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (1)

localhost:27017

- admin
- config
- fleet
 - administrators
 - bookings
 - drivers
 - feedbacks
 - otp
 - users
- vehicles
- local

localhost:27017 > fleet > vehicles

Documents 1 Aggregations Schema Indexes 3 Validation

Type a query: { field: 'value' } or [Generate query +](#)

Add DATA EXPORT DATA UPDATE DELETE

25 1-1 of 1

```
_id: ObjectId('67f1447a342cd5c272dcf7f0')
Image: "Image1"
Name: "Tata Curvv"
Type: "Car"
Price: 3999
Availability: "Yes"
Rating: 0
Driver: ""
Fuel Type: "Petrol"
Seating Capacity: 4
Registration Plate: "ts2345"
Vehicle ID: "aaa0001"
```

Open MongoDB shell

Explain Reset Find Options

FLEET

Logout

All Cars Bikes Available Not available Price Rating

Tata Curvv

Type: Car
Price: \$4497/day
Availability: Available
Rating: 0.0 ★
Driver: sai
Fuel Type: Petrol
Seating Capacity: 4
Registration Plate: ts2345
Vehicle ID: aaa0001

+ Add Vehicle

EDIT DELETE

FLEET

Logout

Edit Vehicle

With Driver Without Driver

Driver Name: rahul

Driver ID: a234df

Vehicle Type: Car

Vehicle Name: Tata Curvv

Price per Day: 4497

Availability: Available

Initial Rating: 0.0

Fuel Type: Petrol

Seating Capacity: 4

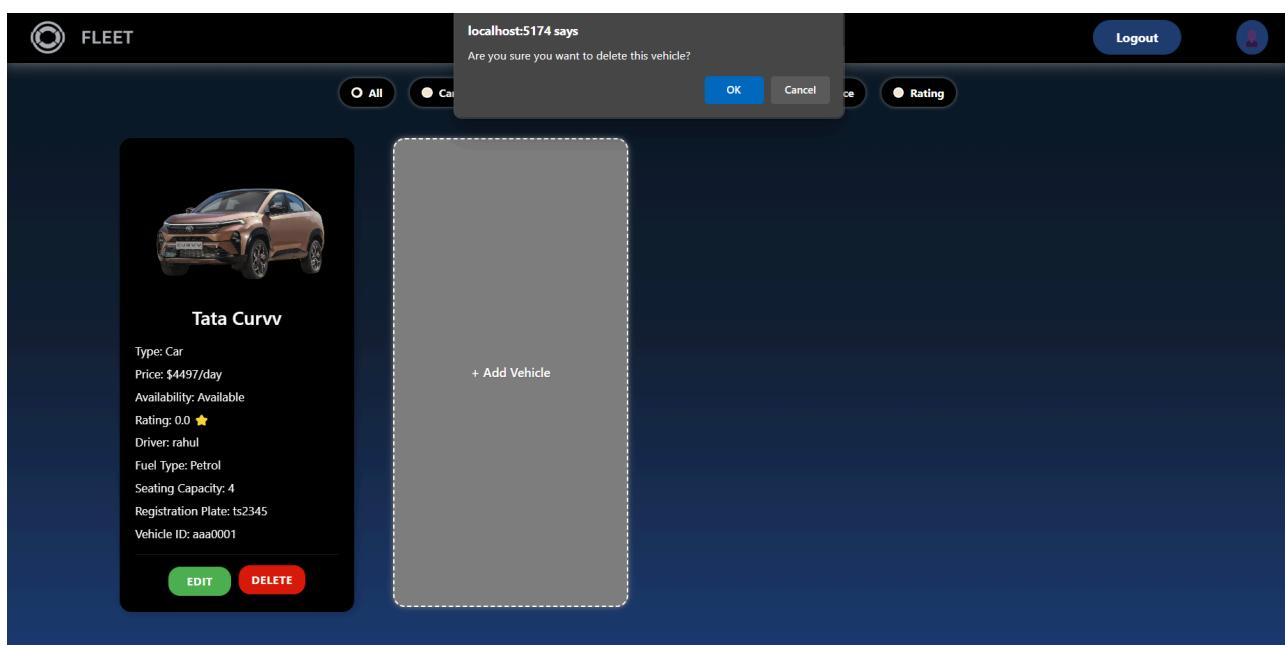
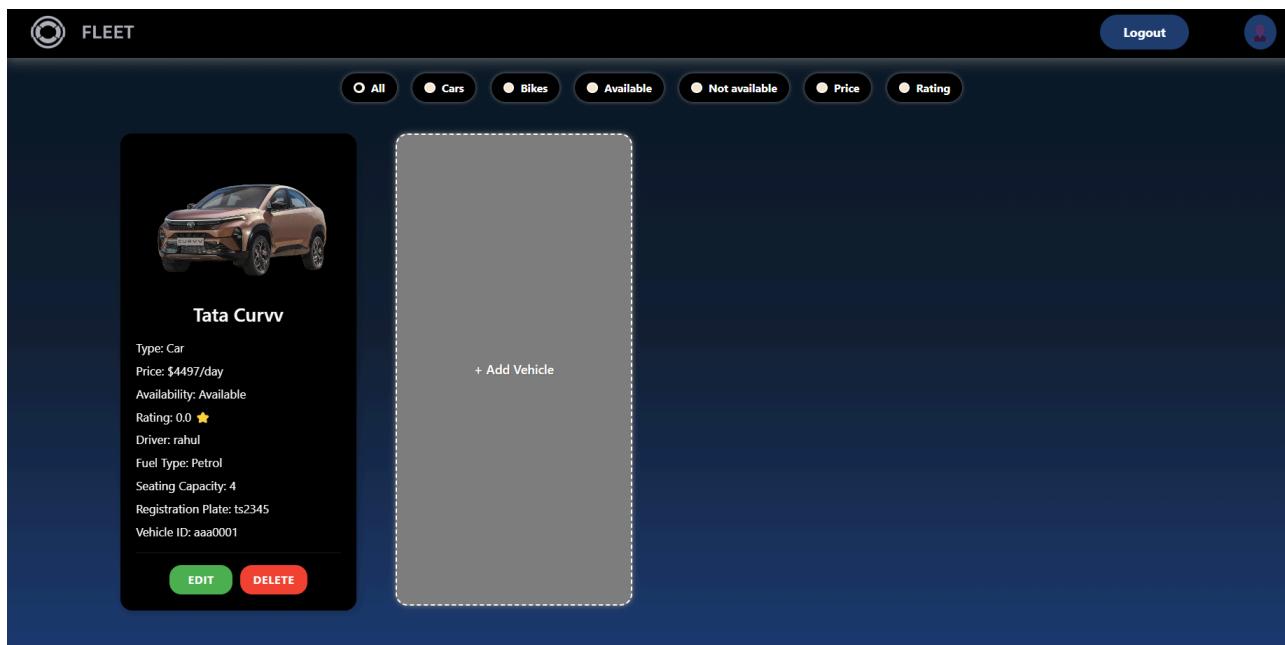
Registration Plate: ts2345

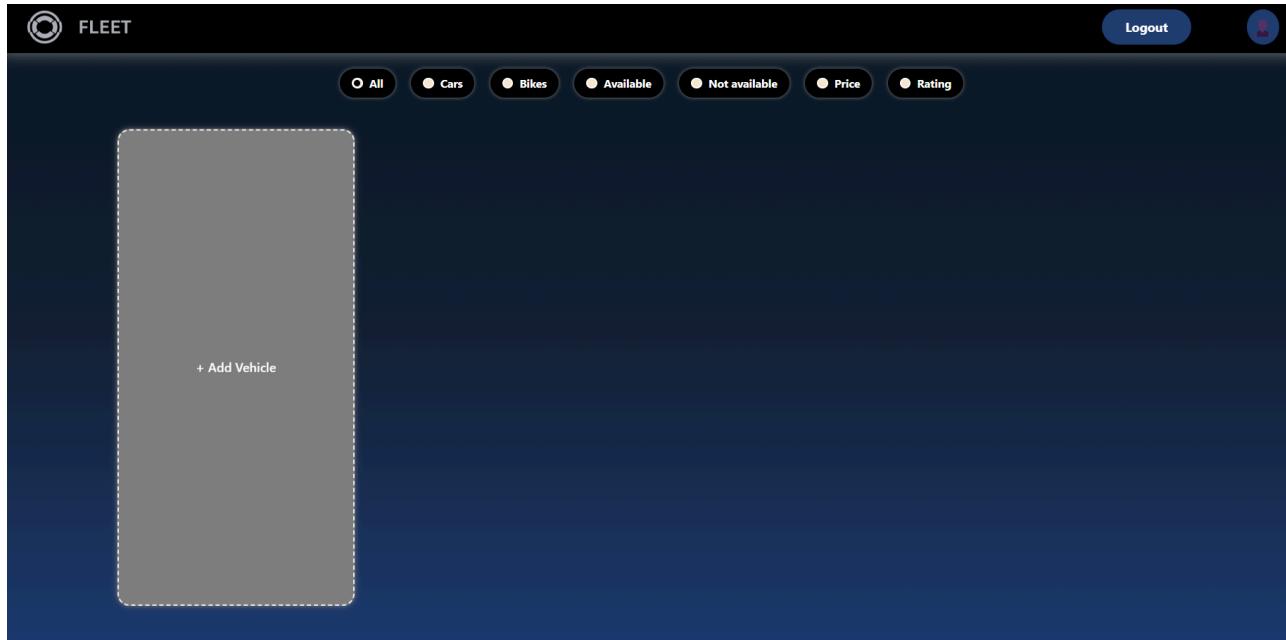
Vehicle ID: aaa0001

Vehicle Image URL: <https://zedextata.co.in/wf>



UPDATE VEHICLE





2. Admin - Driver Management (Add, Edit, Delete)

Module Details : This module covers the integration testing of admin functionalities related to managing driver information. It ensures that driver entries are correctly added, edited, deleted from the database and these changes are properly reflected on the admin page.

Test Owner : Reddi Pallavi

Test Date : 01/04/2025

Test Results :

1. Adding Drivers :

- Verified that new driver entries are stored correctly in the database.
- Confirmed that the added drivers appear instantly on the admin page..
- Checked for validation errors in case of incomplete or incorrect driver details.

2. Editing Drivers :

- Ensured that driver information can be updated successfully.
- Verified that updates are reflected in both the database and the admin interface.

- Confirmed that all form validations work as expected during edits..

3. Deleting Drivers :

- Validated that deleted driver records are removed from the database.
- Ensured that deleted drivers no longer appear on the admin page.
- Verified confirmation prompts before deletion..

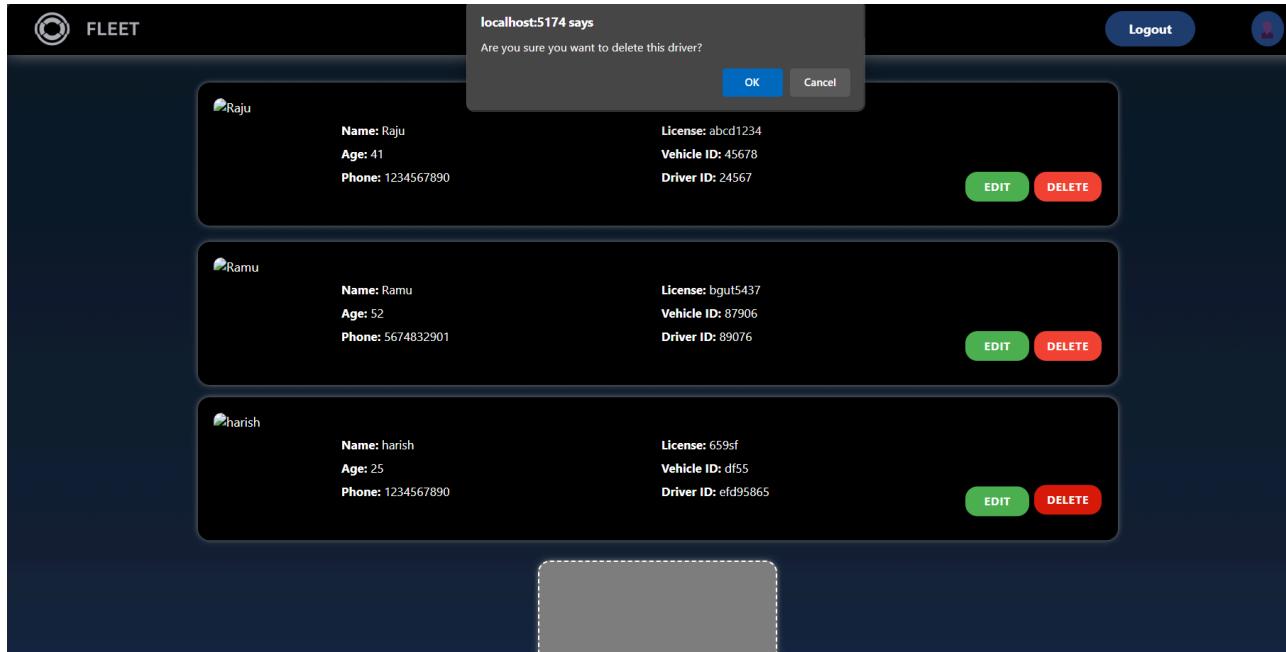
Additional Comments :

- Database state was verified before and after each operation to ensure consistency.
- UI updates on the admin page were tested for real-time reflection of changes.
- Overall functionality is stable with minor suggestions for UI feedback enhancements.

The screenshot shows a dark-themed application interface for managing drivers. At the top, there's a header with a logo, the word "FLEET", and a "Logout" button. Below the header, there are three driver profiles listed vertically:

- Raju:** Name: Raju, Age: 41, Phone: 1234567890, License: abcd1234, Vehicle ID: 45678, Driver ID: 24567. Buttons: EDIT (green), DELETE (red).
- Ramu:** Name: Ramu, Age: 52, Phone: 5674832901, License: bgut5437, Vehicle ID: 87906, Driver ID: 89076. Buttons: EDIT (green), DELETE (red).
- harish:** Name: harish, Age: 25, Phone: 1234567890, License: 659sf, Vehicle ID: d555, Driver ID: efd95865. Buttons: EDIT (green), DELETE (red).

A large, semi-transparent gray rectangular box is overlaid on the bottom half of the screen, obscuring the bottom portion of the driver cards.



The screenshot shows the MongoDB Compass interface connected to the database "localhost:27017/fleet.drivers". The left sidebar shows the database structure with collections: drivers, users, vehicles, and others like administrators, bookings, etc. The "drivers" collection is selected and expanded, showing its documents.

The main pane displays the following data for each document:

- Raju**:


```
_id: ObjectId('67f14562342cd5c272dcf7f3')
Image : "Image_d1"
Name : "Raju"
Age : 41
Phone : "1234567890"
License : "abcd1234"
Vehicle ID : "45678"
Driver ID : "24567"
```
- Ramu**:


```
_id: ObjectId('67f145e7342cd5c272dcf7f5')
Image : "Image_d2"
Name : "Ramu"
Age : 52
Phone : "5674832901"
License : "bgut5437"
Vehicle ID : "87906"
Driver ID : "89076"
```
- Harish**:


```
_id: ObjectId('67f14654342cd5c272dcf7f7')
Image : "Image_d3"
Name : "akil teja"
Age : 34
Phone : "2345167890"
```

At the bottom of the Compass interface, there are buttons for ADD DATA, EXPORT DATA, UPDATE, and DELETE, along with a pagination indicator showing 1-3 of 3 results.

The screenshot shows a mobile application interface for entering driver details. At the top left is a circular icon with a camera symbol and the word "FLEET". At the top right are "Logout" and profile icons. The main screen has a dark background with a central white input card. The card title is "ENTER DRIVER DETAILS". It contains eight input fields with placeholder text: "Name: Enter name", "Age: Enter age", "Address: Enter address", "Phone: Enter phone", "License: Enter license", "Vehicle ID: Enter vehicle ID", "Driver ID: Enter driver ID", and "Photo URL: Enter photo URL". A large green button at the bottom is labeled "ADD DRIVER".

Name: Enter name

Age: Enter age

Address: Enter address

Phone: Enter phone

License: Enter license

Vehicle ID: Enter vehicle ID

Driver ID: Enter driver ID

Photo URL: Enter photo URL

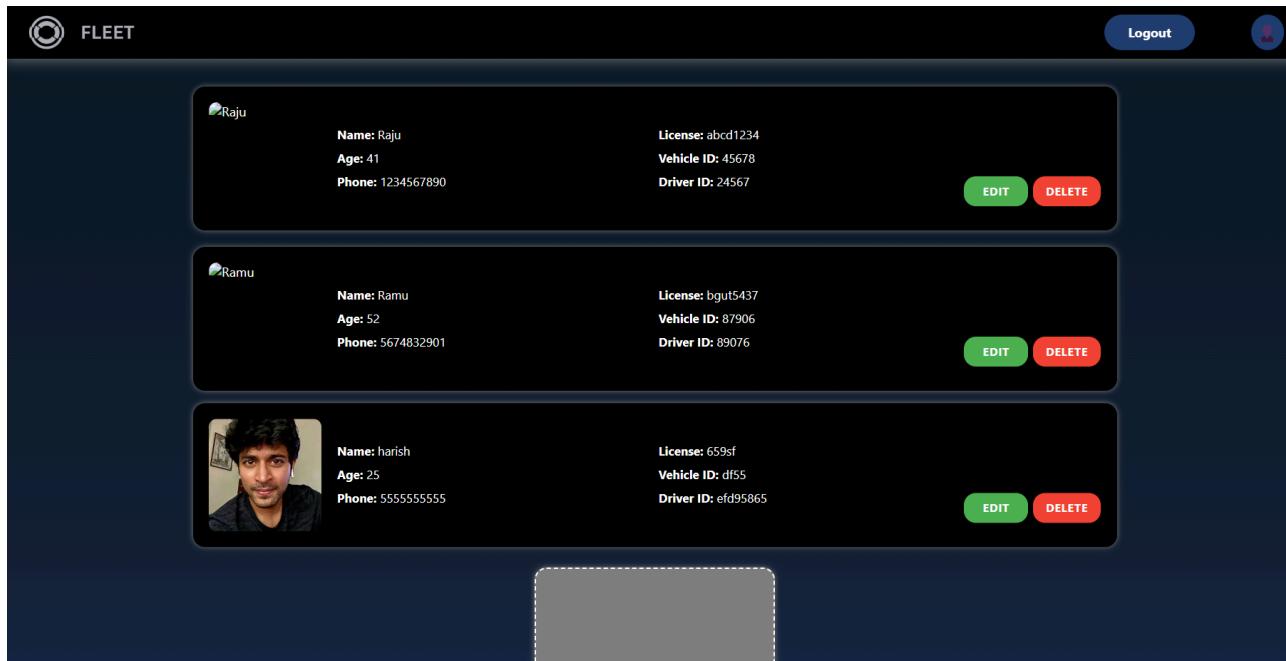
ADD DRIVER

The screenshot shows a list of three drivers in a dark-themed application. Each driver profile includes a small profile picture, the driver's name, age, phone number, license plate, vehicle ID, and driver ID, along with 'EDIT' and 'DELETE' buttons.

Driver	Name	Age	Phone	License	Vehicle ID	Driver ID
Raju	Raju	41	1234567890	abcd1234	45678	24567
Ramu	Ramu	52	5674832901	bgut5437	87906	89076
harish	harish	25	1234567890	659sf	df55	efd95865

The screenshot shows an 'EDIT DRIVER DETAILS' modal window. It contains fields for Name, Age, Address, Phone, License, Vehicle ID, Driver ID, and Photo URL, each with its current value. Below the form is a preview image of the driver and a large green 'UPDATE DRIVER' button at the bottom.

Field	Value
Name	harish
Age	25
Address	kanpur
Phone	1234567890
License	659sf
Vehicle ID	df55
Driver ID	efd95865
Photo URL	https://th.bing.com/th/id/OIP.HS4tjRMchnB9a0KtP2c



3. Search Results - Vehicles Availability (User and Admin)

Module Details : This module covers the integration testing of the search functionality for vehicles, verifying that available vehicles are correctly shown to both users and admin based on the search criteria. It ensures synchronization between user interface elements and the backend database.

Test Owner : Sai Prabhav

Test Date : 02/04/2025

Test Results :

1. Search Functionality :

- Verified that search inputs return relevant vehicle listings from the database.
- Ensured that availability filters are applied correctly and consistently.
- Confirmed that results match actual availability data in the backend.

2. Display on User Page :

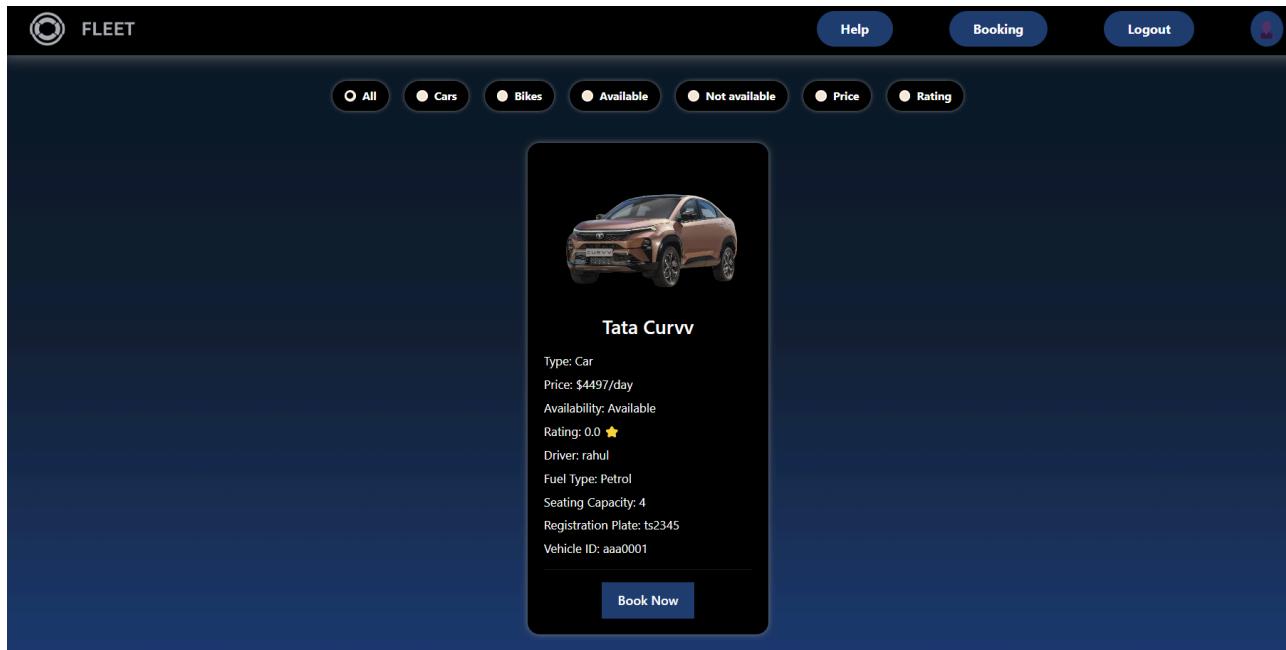
- Checked that users only see currently available vehicles based on search.
- Verified that UI displays all necessary vehicle details (model, fare, type).

3. Display on Admin Page :

- Ensured that search also works within the admin panel for oversight and management.
- Verified consistency in availability data between user and admin views.

Additional Comments :

- Tested responsiveness and loading times for real-time search results.
- No data mismatch issues found; however, filter UI could be enhanced for better user experience.
- Search feature is stable and performs accurately under varied input scenarios.



4. With Driver - Booking Flow

Module Details : This module focuses on the complete booking flow for a driver, starting from initiating a booking through the "Book Now" button, reviewing price details, selecting the pickup location, confirming the booking, and tracking the booking as active. This integration test ensures that all steps in the booking process are recorded in the database and reflected correctly on the interface.

Test Owner : Habeeb Ramith Kumar

Test Date : 02/03/2025

Test Results :

1. Book Now :

- Verified that clicking "Book Now" on a vehicle opens the correct booking interface.
- Ensured that selected vehicle information is passed properly to the booking flow.

2. Price Details :

- Confirmed that the price breakdown is displayed accurately.
- Verified that the price is calculated dynamically based on selected options and shown to the user before proceeding.

3. Pickup Location :

- Validated that users can select and submit pickup locations.
- Ensured that the location is saved in the database.

4. Confirm Booking :

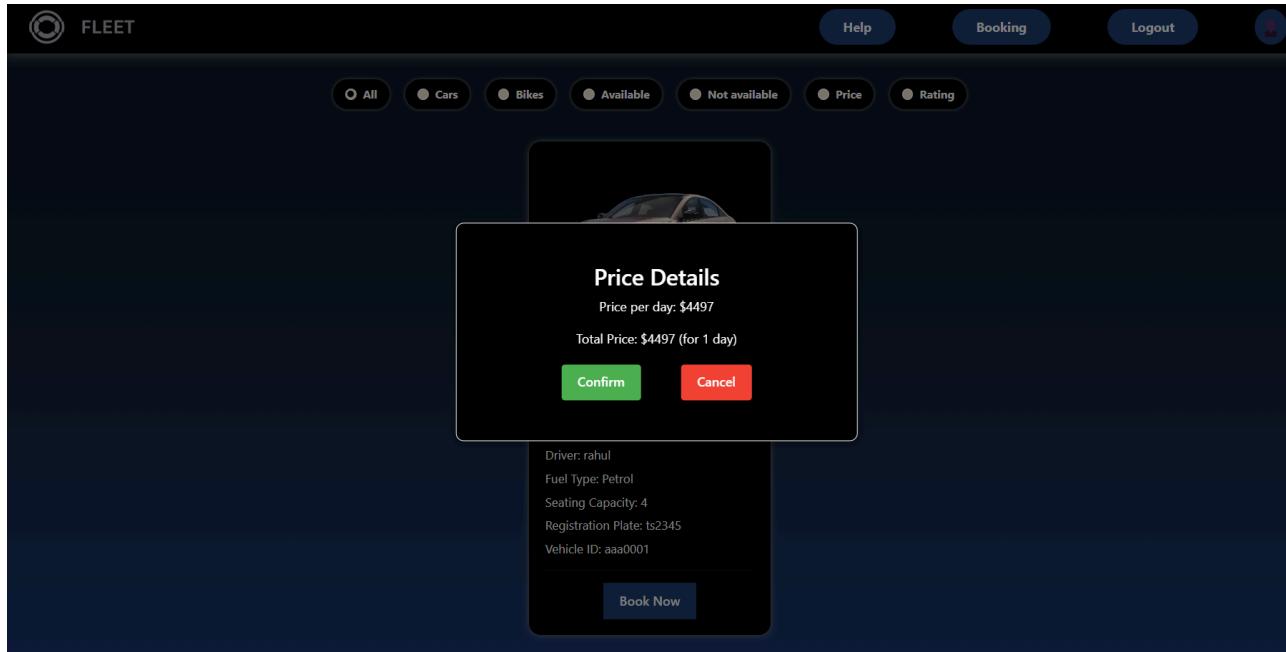
- Verified that submitting the booking creates a new record in the bookings database.
- Confirmed that all associated data (driver, vehicle, price, pickup location) is correctly stored.
- Checked that booking confirmed pop up appears.

5. Active Booking :

- Confirmed that the new booking appears in the "Active Bookings" section instantly.
- Verified status updates and the booking can be tracked

Additional Comments :

- The entire booking process was tested on different browsers and screen sizes.
- No performance issues detected; the transition between steps is smooth.



5. Self Drive, Vehicle Delivery - Booking Flow

Module Details : This module tests the end-to-end flow for users opting for a self drive with vehicle delivery. It ensures that all steps from selecting a vehicle to confirming delivery are handled correctly and data is accurately stored in the database and reflected in the interface.

Test Owner : Jyothika Seru

Test Date : 31/03/2025

Test Results :

1. Book Now :

- Confirmed that clicking "Book Now" opens the booking modal specific to self-drive.
- Vehicle selection is retained correctly through the process.

2. Price Details :

- Verified the accurate display of price breakdown.
- Dynamic updates confirmed based on user selections.

3. Deliver Vehicle :

- Checked that the delivery option is clearly presented.
- Validated that the backend updates to flag the booking as delivery-based.

4. Terms and Conditions :

- Ensured that users must agree to terms before proceeding.
- Confirmed modal visibility and required confirmation.

5. Delivery Location :

- Tested the form to collect and store delivery location accurately.

6. Confirm Booking :

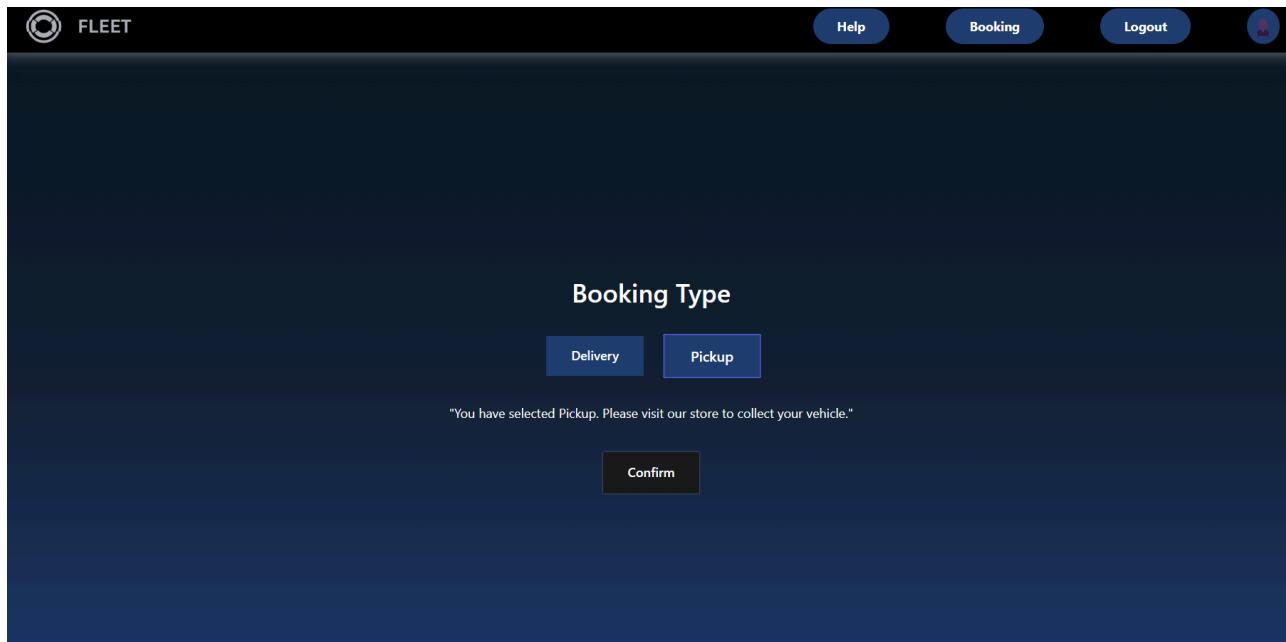
- Booking entry created in database with all selections (vehicle, delivery, location).
- Checked that booking confirmed pop up appears.

7. Active Booking :

- Confirmed that the new booking appears in the “Active Bookings” section instantly.
- Verified status updates and the booking can be tracked.

Additional Comments :

- The entire booking process was tested on different browsers and screen sizes.
- No performance issues detected; the transition between steps is smooth.
- Suggest showing ETA (Estimated Time of Arrival) for vehicle delivery after booking.



The screenshot shows a mobile application interface for 'FLEET'. At the top, there is a navigation bar with icons for 'Help', 'Booking', 'Logout', and a user profile. Below the navigation bar, a large white box contains the title 'Terms and Conditions' in bold. Underneath, there are several sections with headings and bullet points:

- 1. User Agreement**

By using the Fleet platform, the customer agrees to abide by all terms and conditions stated here.

 - The customer must be at least 18 years old (or the legal driving age in their region) to rent a vehicle.
 - A valid government-issued ID and driver's license must be provided for verification.
- 2. Rental Policies**

The vehicle must be returned in the same condition as it was rented, excluding normal wear and tear.

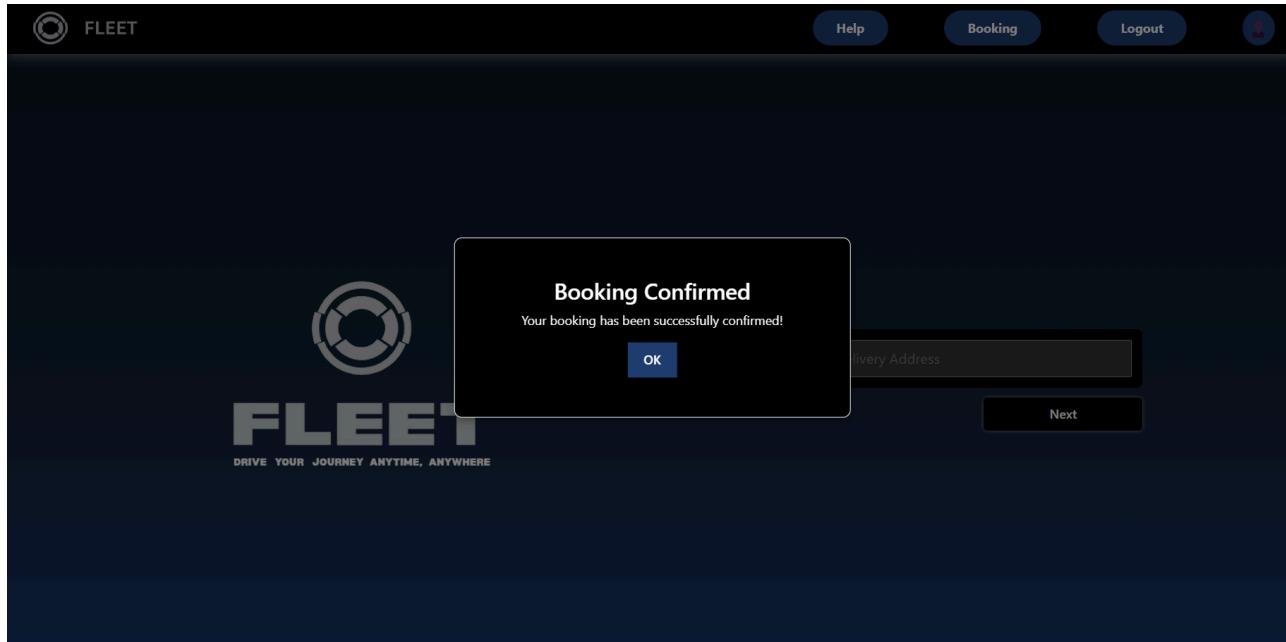
 - Smoking and the consumption of alcohol are strictly prohibited inside the vehicle.
 - The customer is responsible for any traffic violations or fines incurred during the rental period.
 - Fuel charges are not included in the rental price unless explicitly stated.
- 4. Liability**

The Fleet platform is not responsible for any personal belongings left in the vehicle.

 - The customer is liable for any damage caused to the vehicle during the rental period.
 - Insurance coverage is subject to the terms of the policy provided at the time of booking.

At the bottom right of the white box are two buttons: a green 'Agree and Confirm' button and a red 'Cancel' button.

The screenshot shows the Fleet platform's delivery address input screen. At the top, there is a navigation bar with icons for 'Help', 'Booking', 'Logout', and a user profile. In the center, the 'FLEET' logo is displayed with the tagline 'DRIVE YOUR JOURNEY ANYTIME, ANYWHERE'. To the right of the logo is a search bar with a location pin icon and the placeholder text 'Enter Delivery Address'. At the bottom right is a black 'Next' button.



6. Self Drive, Pickup from Store - Booking Flow

Module Details : This module tests the booking flow for self-drive vehicles where users pick up the vehicle from the store. It ensures that each step from booking to activation is handled correctly, and all data is consistently stored and displayed.

Test Owner : Manam Amara Gayathri

Test Date : 01/04/2025

Test Results :

1. Book Now :

- Confirmed that clicking "Book Now" opens the booking modal specific to self-drive.
- Vehicle selection is retained correctly through the process.

2. Price Details :

- Verified the accurate display of price breakdown.
- Dynamic updates confirmed based on user selections.

3. Pickup from Store :

- Checked that the pickup option is clearly presented.
- Validated that the backend updates to flag the booking as pickup from store.

4. Terms and Conditions :

- Ensured that users must agree to terms before proceeding.
- Confirmed modal visibility and required confirmation.

5. Confirm Booking :

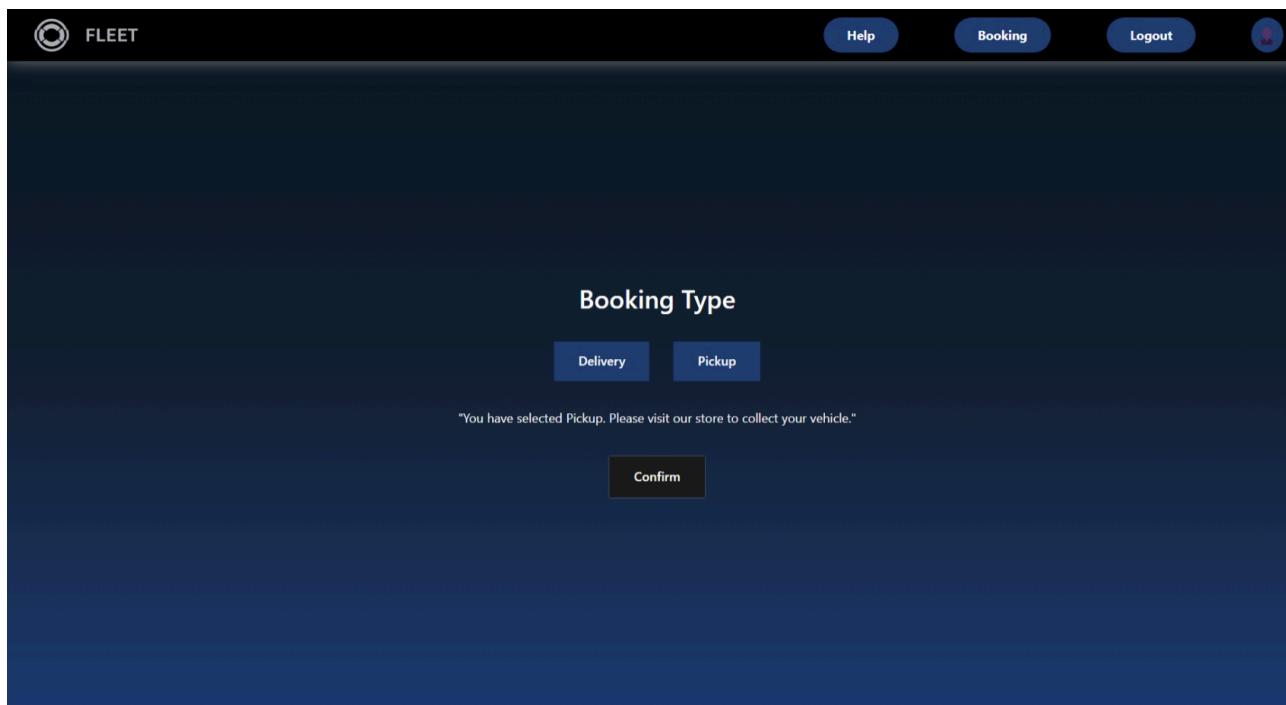
- Booking saved successfully with all necessary details.
- Checked that booking confirmed pop up appears.

6. Active Booking :

- Confirmed that the new booking appears in the "Active Bookings" section instantly.
- Verified status updates and the booking can be tracked.

Additional Comments :

- Tested form validation and UI responsiveness.
- Booking flow is smooth and functions well across browsers.
- Recommend optional store directions in the confirmation summary.



The screenshot shows a dark-themed web application interface. At the top, there is a header bar with the 'FLEET' logo, 'Help', 'Booking', 'Logout', and a user profile icon. Below the header, a modal window titled 'Terms and Conditions' is displayed. The modal contains four sections: '1. User Agreement', '2. Rental Policies', '3. Payment Options' (which is partially visible and cut off), and '4. Liability'. Each section has a list of requirements or policies. At the bottom of the modal are two buttons: a green 'Agree and Confirm' button and a red 'Cancel' button.

Terms and Conditions

1. User Agreement

By using the Fleet platform, the customer agrees to abide by all terms and conditions stated here.

- The customer must be at least 18 years old (or the legal driving age in their region) to rent a vehicle.
- A valid government-issued ID and driver's license must be provided for verification.

2. Rental Policies

- The vehicle must be returned in the same condition as it was rented, excluding normal wear and tear.
- Smoking and the consumption of alcohol are strictly prohibited inside the vehicle.
- The customer is responsible for any traffic violations or fines incurred during the rental period.
- Fuel charges are not included in the rental price unless explicitly stated.

4. Liability

- The Fleet platform is not responsible for any personal belongings left in the vehicle.
- The customer is liable for any damage caused to the vehicle during the rental period.
- Insurance coverage is subject to the terms of the policy provided at the time of booking.

Agree and Confirm Cancel

This screenshot is similar to the one above, showing the 'Terms and Conditions' page. However, a black overlay box with white text is centered over the '2. Rental Policies' section. The overlay contains the message 'Booking Confirmed' and 'Your booking has been successfully confirmed!' followed by an 'OK' button. The rest of the page content is visible through the semi-transparent overlay.

Terms and Conditions

1. User Agreement

By using the Fleet platform, the customer agrees to abide by all terms and conditions stated here.

- The customer must be at least 18 years old (or the legal driving age in their region) to rent a vehicle.
- A valid government-issued ID and driver's license must be provided for verification.

2. Rental Policies

- The vehicle must be returned in the same condition as it was rented, excluding normal wear and tear.
- Smoking and the consumption of alcohol are strictly prohibited inside the vehicle.
- The customer is responsible for any traffic violations or fines incurred during the rental period.
- Fuel charges are not included in the rental price unless explicitly stated.

4. Liability

- The Fleet platform is not responsible for any personal belongings left in the vehicle.
- The customer is liable for any damage caused to the vehicle during the rental period.
- Insurance coverage is subject to the terms of the policy provided at the time of booking.

Agree and Confirm Cancel

7. Admin - Bookings Display

Module Details : This module verifies that all user bookings, whether for self-drive or with driver rides are accurately reflected in the admin dashboard. It ensures real-time syncing between user actions and the admin interface, validating both display accuracy and backend updates.

Test Owner : Pittala Sruthi

Test Date : 02/04/2025

Test Results :

1. New Booking Display :

- Verified that newly made bookings appear instantly in the admin panel.
- Checked consistency in displayed details including user name, booking type, vehicle info, and booking status.

2. Booking Status Updates :

- Confirmed that changes in booking status (e.g., confirmed, active, completed) are reflected without delay.

3. Sorting and Filtering :

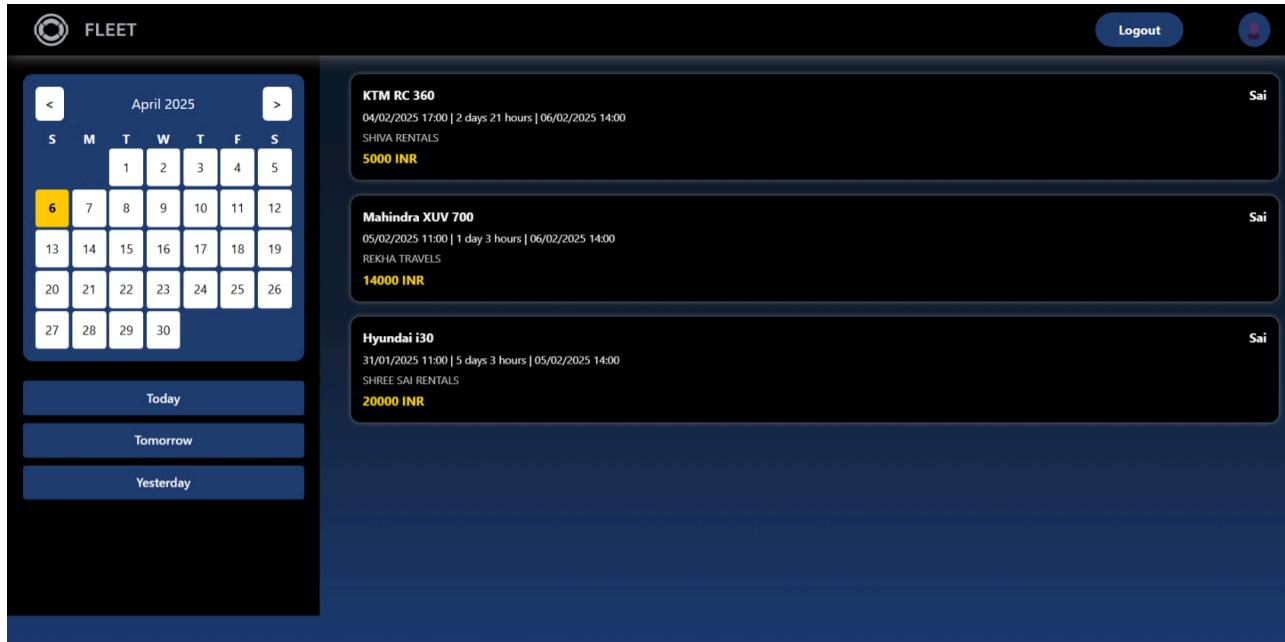
- Tested sorting by date, and booking status.
- Verified filters work correctly..

4. Database Sync :

- Ensured every booking entry in the admin view matches the data in the backend database.
- Cross-checked for missing or duplicate entries.

Additional Comments :

- Admin view is responsive and loads data quickly under multiple test conditions.
- Notification systems for new bookings can enhance admin response time.



8. Submit Ratings - Vehicle Ratings Update

Module Details : This module tests the functionality of the user rating system for vehicles. It ensures that once a user submits a rating, the average vehicle rating is updated both in the frontend and backend systems and reflected across relevant pages such as the vehicle details view.

Test Owner : Shashi Bidodiya

Test Date : 02/04/2025

Test Results :

1. Submit Rating Form :

- Verified that users can successfully submit a rating after a trip.
- Confirmed required validation.

2. Backend Update :

- Checked that the submitted rating is recorded in the database.
- Verified that the average rating for the specific vehicle updates correctly.

3. Frontend Display :

- Ensured updated average rating reflects instantly on the vehicle listing and detail pages.

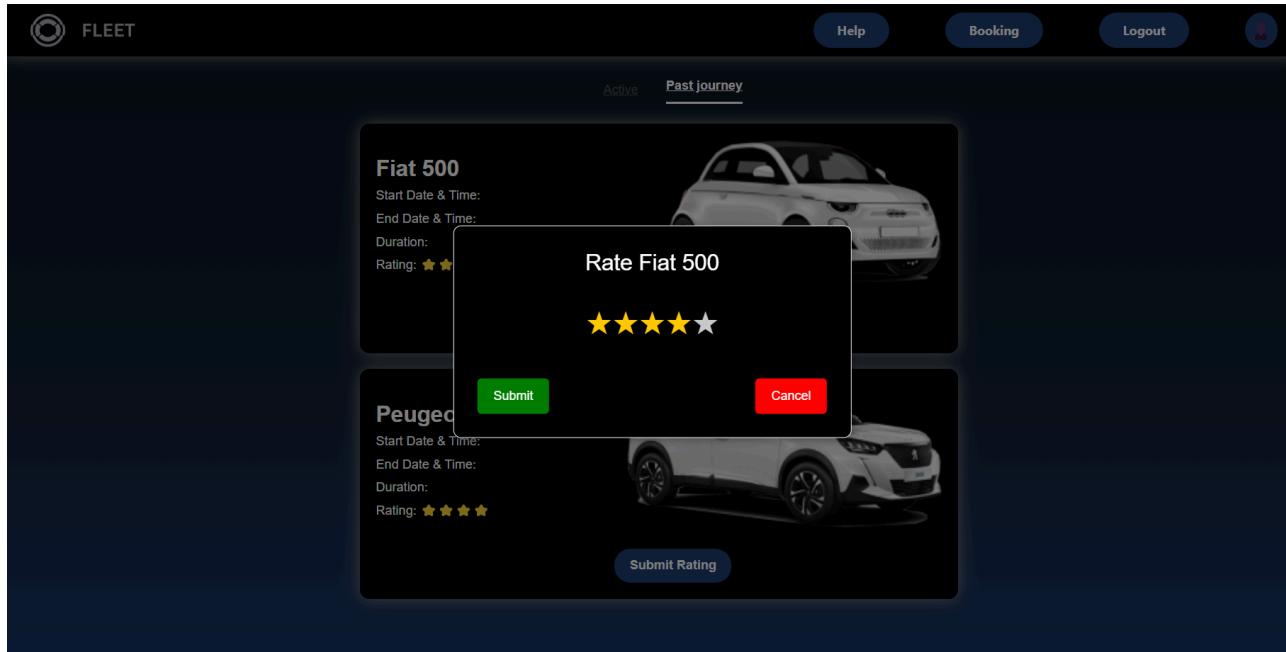
- Verified visual consistency.

4. Multiple Ratings Handling :

- Tested logic for calculating average rating with multiple user inputs.
- Checked that outlier values (e.g., 1-star, 5-star) do not break the UI or logic.

Additional Comments :

- Rating system UI is user-friendly and intuitive.
- Recommending adding filters/sorting options by highest and most recent reviews on vehicle detail pages.



9. Past Bookings

Module Details : This module verifies that users can view their completed bookings and in the “Past Bookings” section. It ensures that the UI retrieves the correct data from the backend and displays all relevant information clearly.

Test Owner : Koneti Karthik

Test Date : 01/04/2025

Test Results :

1. Data Retrieval :

- Verified that completed bookings are fetched correctly from the database.

2. UI Display :

- Ensured all past bookings appear in descending order of date.
- Verified presence of details like vehicle name, trip duration.

3. User-Specific Filtering :

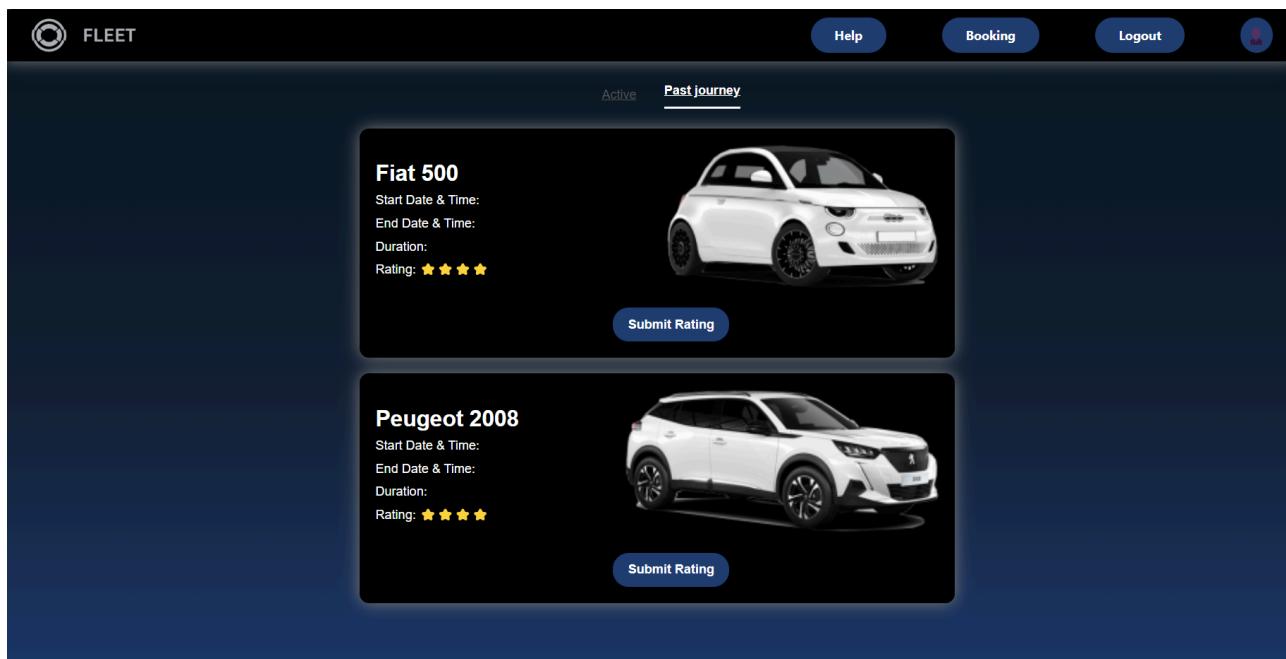
- Confirmed that users only see their own past bookings.

4. Performance Check :

- Verified that the list loads within acceptable time.
- Pagination or infinite scroll works as expected for long histories.

Additional Comments :

- Suggest including “Rebook” buttons for user convenience.
- Recommend color indicators or icons for different trip types (self-drive/with driver).



10. Profile Editing

Module Details : This module tests the profile editing functionality for users and ensures that any changes made to their personal details are properly updated in the database and reflected in their accounts.

Test Owner : Poorvie Sadagopan

Test Date : 31/03/2025

Test Results :

1. Profile Update Forms :

- Verified that users can edit profile fields such as name, phone number, and address.
- Checked for required field validations and correct error handling.

2. Backend Update :

- Ensured that changes are successfully stored in the database.
- Verified email uniqueness check to prevent duplicate accounts.

3. Frontend Display :

- Confirmed that the updated details reflect correctly in the profile section.

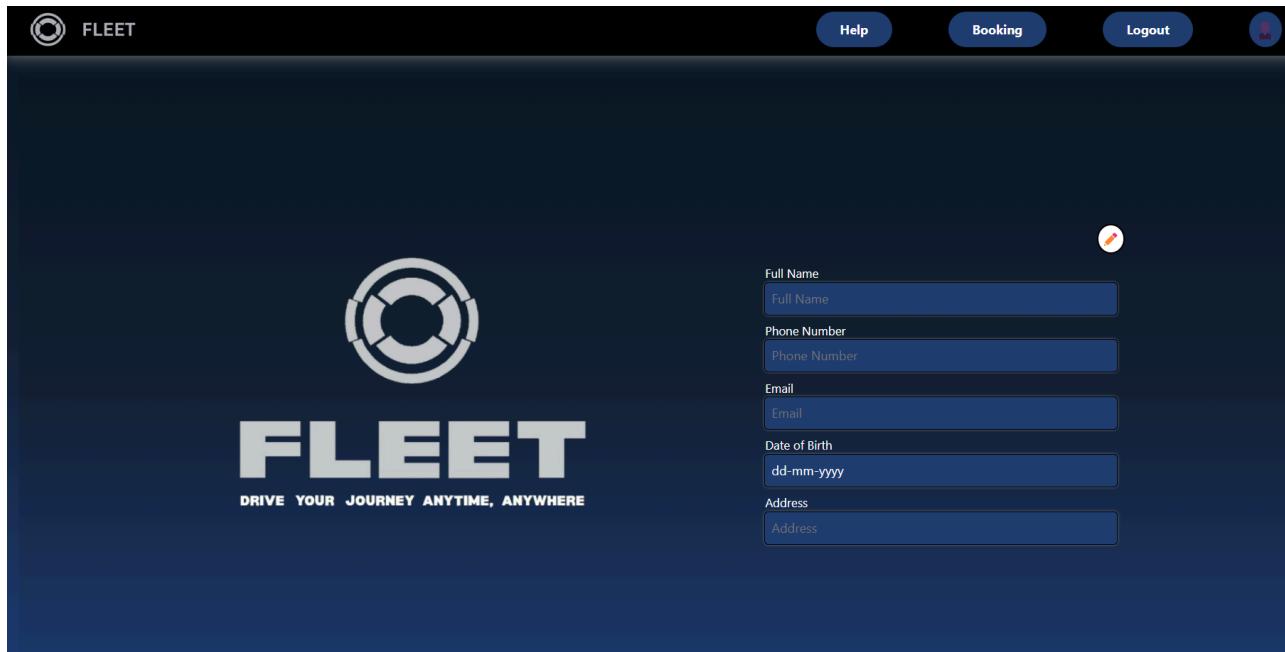
4. Security Checks :

- Verified that unauthorized users cannot edit other user profiles.

Additional Comments :

- Suggest implementing multi-factor authentication for additional security.
- Notification systems to alert users of successful profile updates can enhance security.

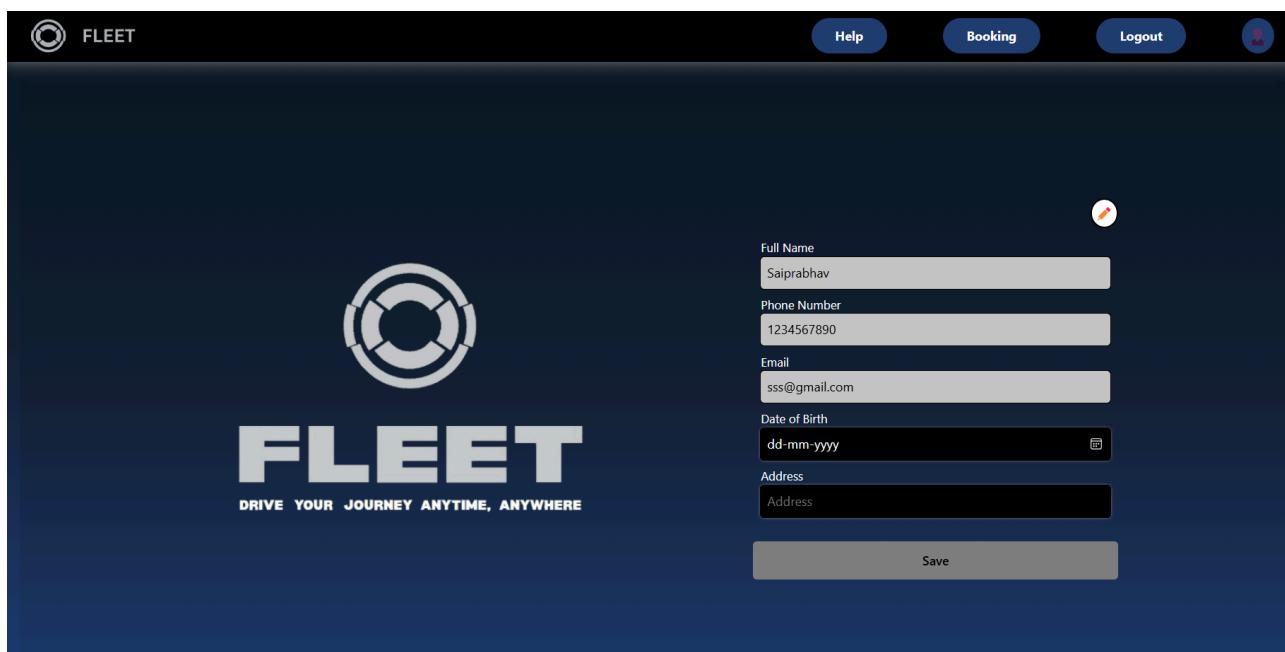
//Add below page with different CSS



The screenshot shows a dark-themed web application interface. At the top, there's a navigation bar with a logo icon, the word "FLEET", and three buttons: "Help", "Booking", and "Logout". On the right side of the header is a user profile icon. Below the header, the main content area features the "FLEET" logo with the tagline "DRIVE YOUR JOURNEY ANYTIME, ANYWHERE". To the right of the logo is a registration form with the following fields:

- Full Name:
- Phone Number:
- Email:
- Date of Birth: (with a calendar icon)
- Address:

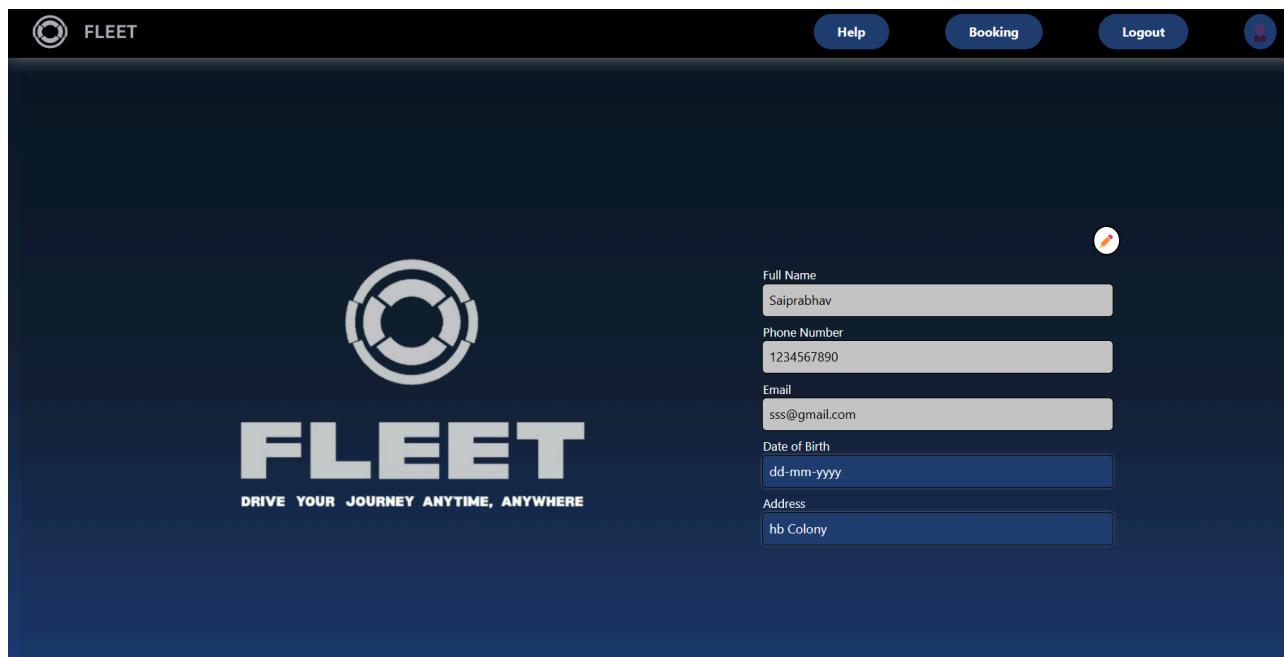
A small edit icon (pencil inside a circle) is located above the "Full Name" field.



This screenshot shows the same application interface as the first one, but with different styling applied to the registration form. The background is dark blue, and the input fields have a light gray background. The fields are identical to the ones in the first screenshot:

- Full Name:
- Phone Number:
- Email:
- Date of Birth: (with a calendar icon)
- Address:

A large "Save" button is positioned at the bottom of the form.



4 System Testing

- Requirement :** The system allows users to register with their email

Test Owner : Habeeb Ramith Kumar

Test Date : 01/04/2025

Test Results : Pass

Additional Comments : The user was able to register successfully using a valid email. An OTP verification was required to complete registration, after registration he can login using his credentials.

- Requirement :** The system allows users to change their passwords

Test Owner : Reddi Pallavi

Test Date : 01/04/2025

Test Results : Pass

Additional Comments : Users were able to reset passwords via the "Forgot Password" link, with a verification OTP sent for confirmation.

- Requirement :** Users can search for vehicles using filters

Test Owner : Manam Amara Gayathri

Test Date : 02/04/2025

Test Results : Pass

Additional Comments : After searching for vehicles users can apply filters such as vehicle type, price and availability. The results update dynamically.

- Requirement :** The system enables administrators to access the admin interface using credentials.

Test Owner : Koneti Karthik

Test Date : 03/04/2025

Test Results : Pass

Additional Comments : The admin was able to login successfully and we are not giving a sign up page for admin.

- 5. Requirement :** The system for user and admin displays details, photo, and availability for all vehicles.

Test Owner : Poorvie Sadagopan

Test Date : 01/04/2025

Test Results : Pass

Additional Comments : Vehicle listings included all necessary details, image and real time availability updates.

- 6. Requirement :** Renters can view their booking history and manage ongoing rentals.

Test Owner : Pittala Sruthi

Test Date : 04/04/2025

Test Results : Pass

Additional Comments : Users could access past bookings, give ratings to them, and modify current rentals.

- 7. Requirement :** Users can rent vehicles with or without drivers.

Test Owner : Jyothika Seru

Test Date : 01/04/2025

Test Results : Pass

Additional Comments : Users could choose between self drive and driver assigned options during booking using a filter in the user home page.

- 8. Requirement:** The system stores driver details such as name and contact information.

Test Owner : Pasala Bosu Akil Teja

Test Date : 03/04/2025

Test Results : Pass

Additional Comments : The driver database was maintained successfully and updated in real time and can be viewed in the admin drivers list, admin can add new drivers in his interface.

9. Requirement : The system stores vehicle details such as model and number plate.

Test Owner : Saiprabhav

Test Date : 01/04/2025

Test Results : Pass

Additional Comments : The vehicle database was maintained successfully and updated in real time and can be viewed in the admin vehicles list, admin can add new vehicles in his interface.

10. Requirement : Users can leave ratings for vehicles.

Test Owner : Shashi Bhidodiya

Test Date : 02/04/2025

Test Results : Pass

Additional Comments : Users can successfully rate a rental after completing a rental.

5 Conclusion

Our testing process was thorough, and we do not anticipate a significant number of errors when the system is deployed.

During testing, we identified and corrected over **50 bugs**, demonstrating the effectiveness of our approach. However, improvements can be made to enhance future testing cycles.

1. Expanding the Testing Team :

Increasing the number of testers and dividing them into specialized groups would help focus on different aspects of the system. This would reduce the need for frequent communication between developers and testers and allow for more exhaustive testing within the available time.

2. Separation of Developers and Testers :

To minimize bias and ensure objective testing, we kept the testing and development teams separate. No developer tested a feature they had built. This separation helped testers think from an end-user's perspective rather than a developer's, which aligns with best practices in software testing, especially for critical systems.

3. Time Constraints and Testing Priorities :

Given the limited time available, implementation was prioritized while ensuring as comprehensive a testing process as possible. More time for testing in future iterations would allow for even more rigorous validation of the system.

By refining these areas, we can further improve the reliability and robustness of the vehicle rental website before deployment.

Appendix A - Group Log

Sr.No	Date	Agenda	Duration
1.	26/03/2025	Meet to discuss the work allocation of testing and user manual.	1hr
2.	28/03/2025	Made changes and finalised the user manual	2hr
3.	29/03/2025	Initialised component testing	1hr
4.	30/03/2025	Initialised integration testing	1hr
5.	01/04/2025	Initialised system testing	1hr
6.	03/04/2025	Formatted and finalised the test document	2hr