

Car NOVA

Team number : 02

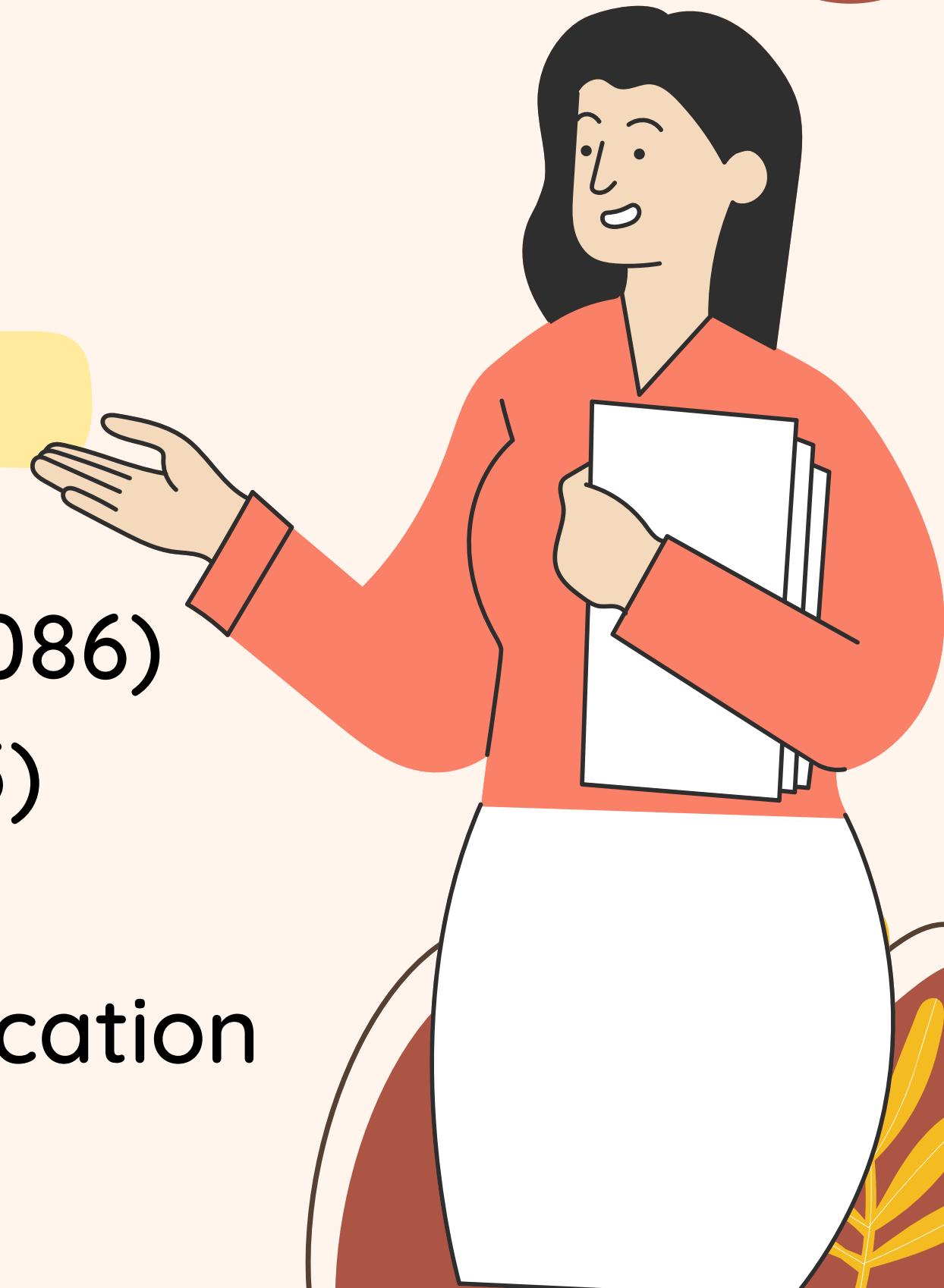
Batch : 2YA - 2022

Team Details :

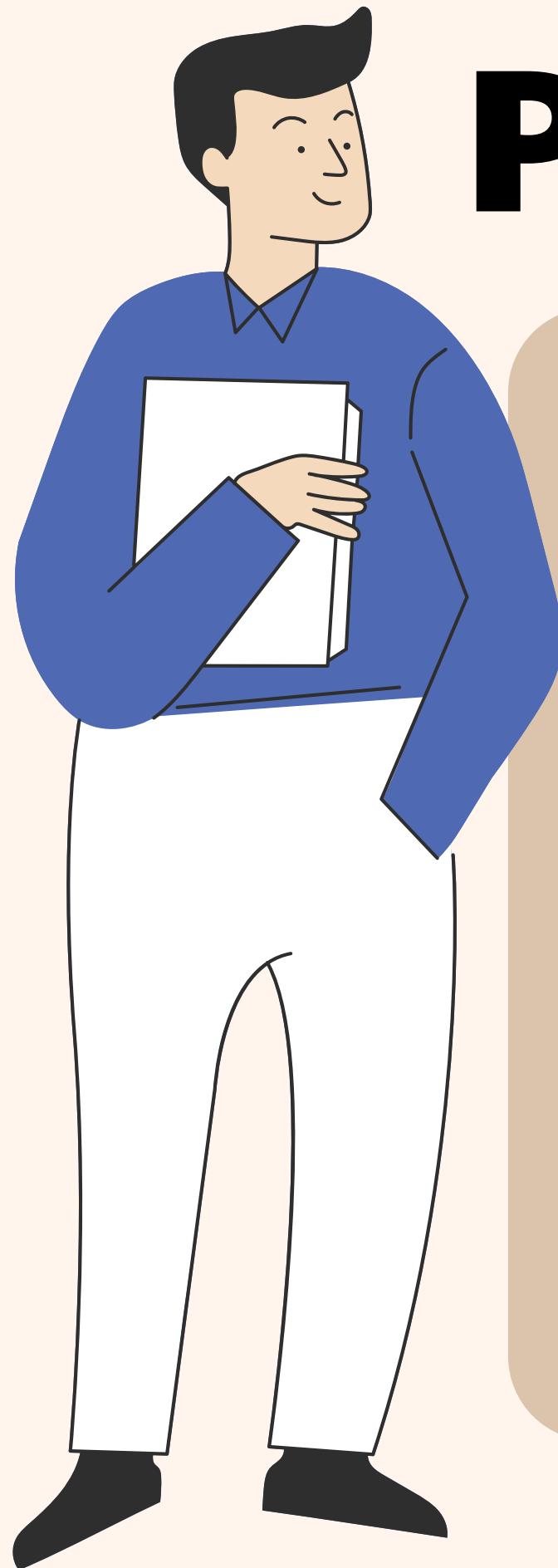
Shourya Shrivastava (2022SP93086)

Anmol Agarwal (2022SP93075)

Topic: Car buying and selling Application
System

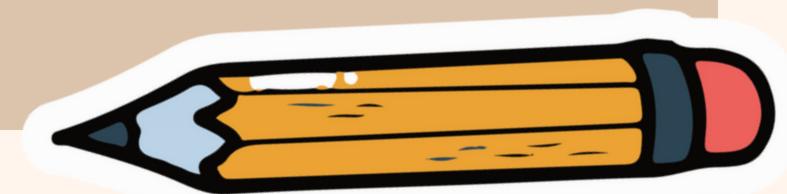


Project Overview



Car NOVA is a cutting-edge, cross-platform application designed to revolutionize the car buying and selling experience. Powered by React Native, this app seamlessly integrates with both iOS and Android devices, offering users a user-friendly and feature-rich platform for their automotive transactions.

- The application's database is powered by MongoDB for comprehensive data storage.
- Frameworks and middleware play a crucial role in the app's functionality, with Express.js facilitating seamless routing.



Features

Cross-platform

The app ensures a consistent and visually appealing user interface across both iOS and Android platforms. Responsive design principles are applied, allowing the app to adapt gracefully to various screen sizes and orientations. Built using React native, the app is cross-platform, works on both android and windows, making it accessible to a wide range of users across various devices and operating systems.

User-Friendly Interface

The UI facilitates seamless car selling and buying experiences. Users can easily navigate through various features, including login, signup, and logout functionalities. Additionally, users have the option to update their profile pictures, list their cars for sale with detailed descriptions, upload images of their vehicles, provide contact information, and explore and purchase different cars.

Other Features

- *User Authentication:*

1

- Secure user accounts with email or social media login options.

- *Registration:*

2

- Users start by registering on the app.
- Provide a user-friendly registration form with fields like name, email, password, and contact information.
- Implement email verification to ensure the security of user accounts.

- *Login:*

3

- After registration, users can log in with their credentials.
- Implement secure authentication methods, such as JWT (JSON Web Tokens) to manage user sessions.
- Offer a "Remember Me" option for convenience.

- *User Profiles:*

4

- Allow users to create and manage profiles with personal information and saved preferences.

- *Detailed Car Profiles:*

5

- Comprehensive information for each car listing, including specifications, images, and history.

Other Features

listing Creation:

6

- Users can initiate the process of selling a car by creating a new listing.
- Include a form where sellers can input details like make, model, year, mileage, condition, price, and other relevant information.

Image Upload:

7

- Allow sellers to upload high-quality images of their vehicle.
- Implement a user-friendly image upload interface, supporting multiple pictures to showcase the car comprehensively.

Search and Browse:

8

- For buyers, a search functionality to find cars based on various criteria such as make, model, price range, etc.
- A user-friendly browsing experience with detailed information for each listing.

Listing Management:

9

- Users can view and manage all their listings from a centralized interface.
- Options to mark a car as sold or temporarily remove it from the listings.

Accessibility and Responsiveness:

10

- Ensure the app is accessible to users with disabilities and that the user interface is responsive on various devices.

Architecture of the app

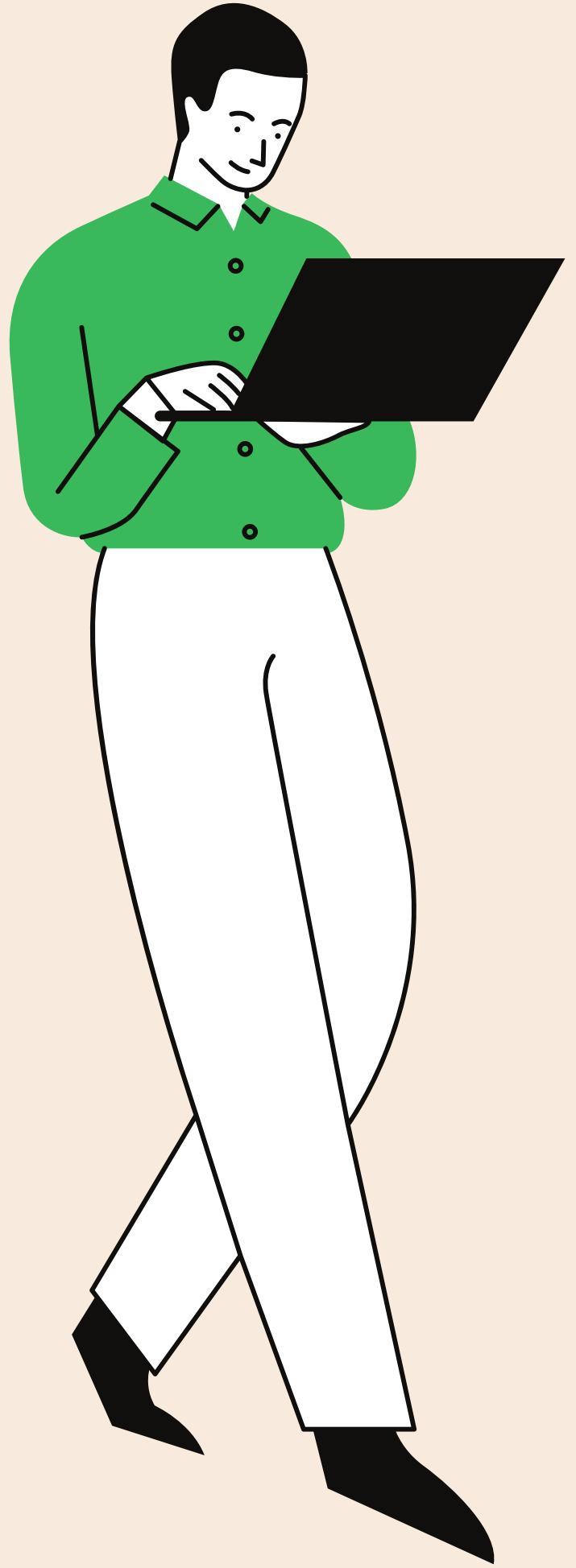
1. React native Framework:

The Car Nova application is developed using React Native, an open-source framework created by Facebook. React Native enables the creation of cross-platform mobile applications with a single codebase. This ensures consistency across Android and iOS platforms and streamlines the development process.

2. Frontend Design:

The frontend is meticulously designed with a user-centric approach, aiming for a seamless and intuitive user interface. React Native components and styling are employed to build responsive UI elements. Screens for registration, after that you can login, there you can be a buyer or seller. You will see your profile accordingly.

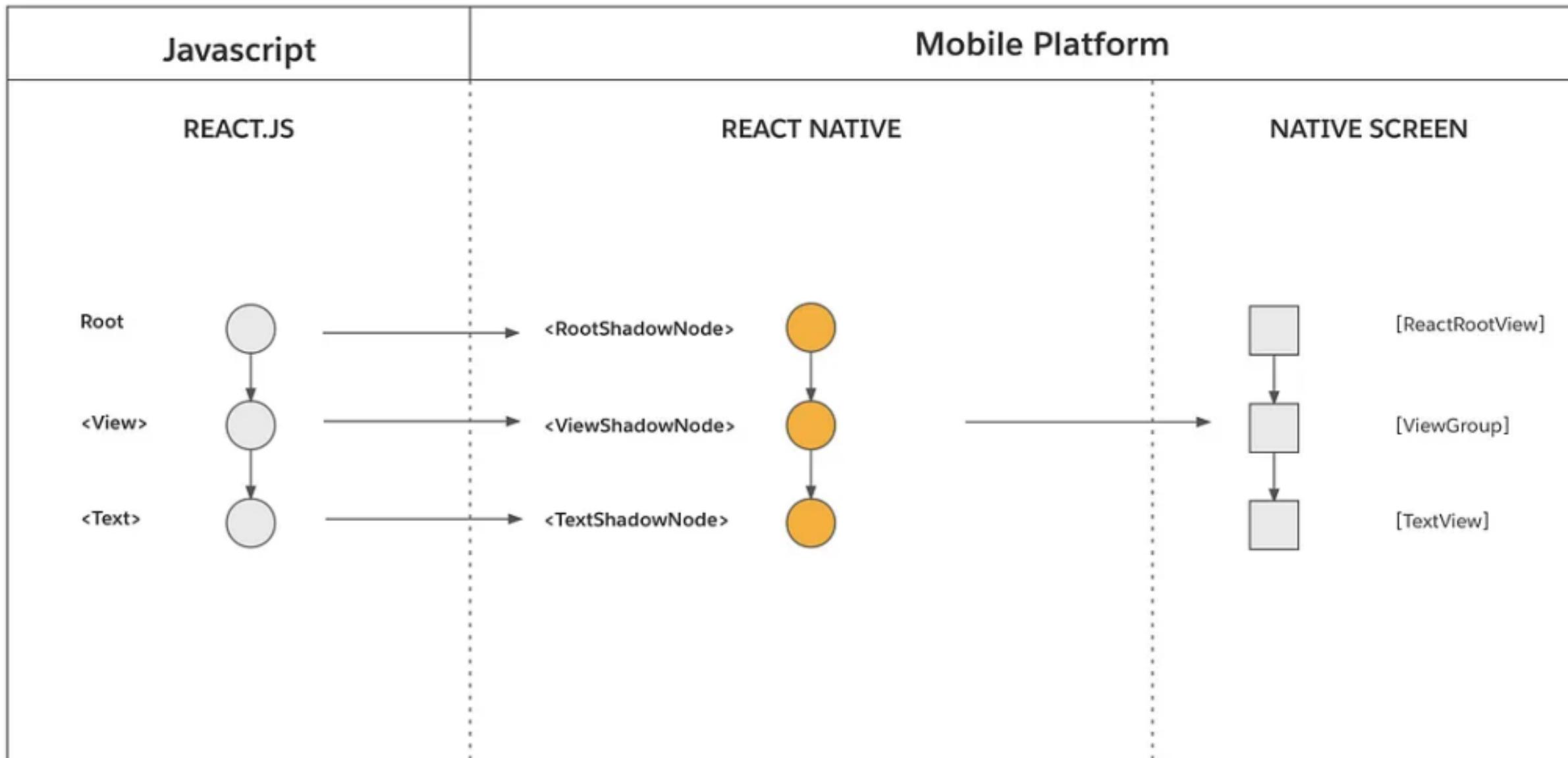




3. Cross-Platform Compatibility:

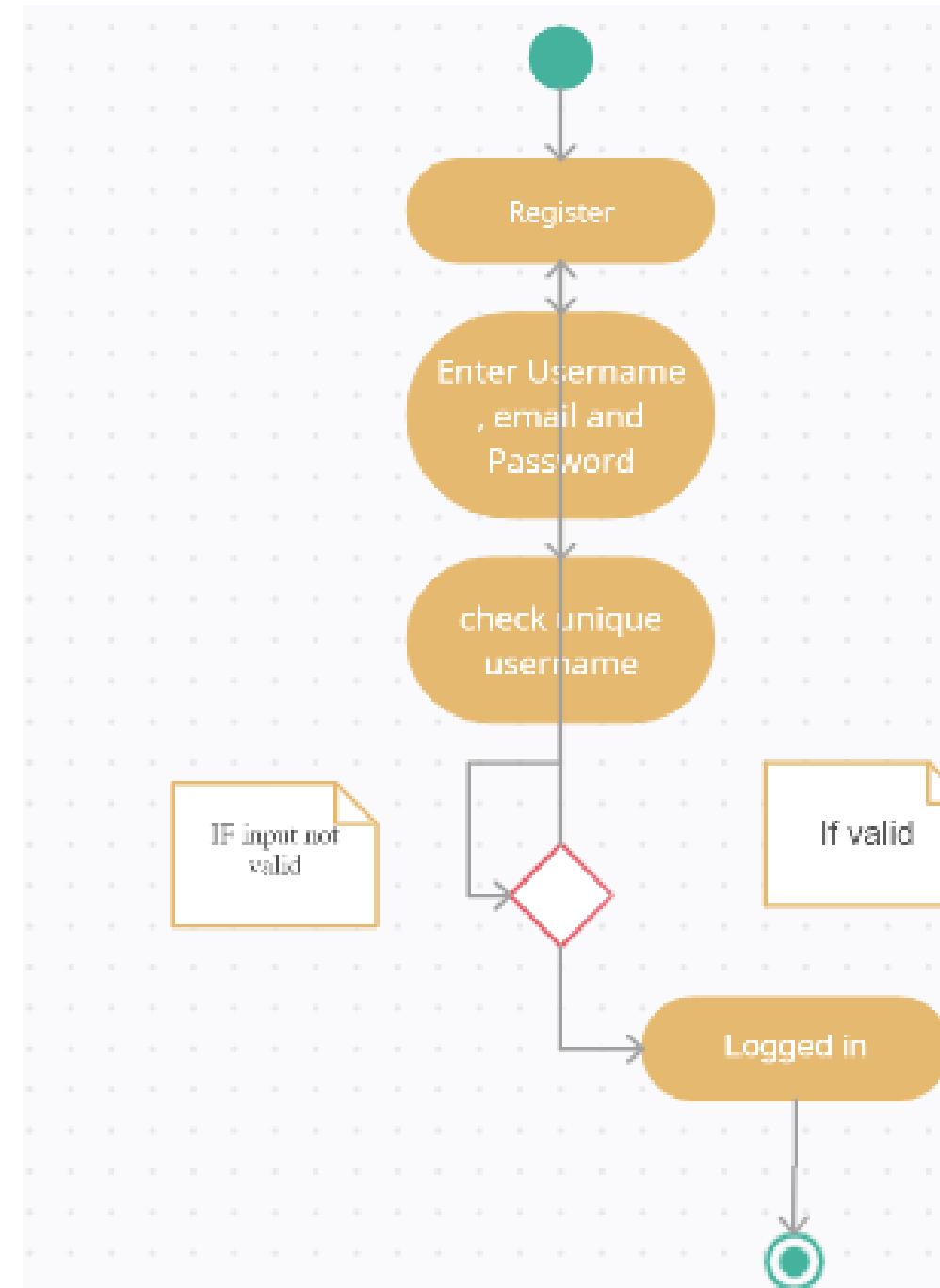
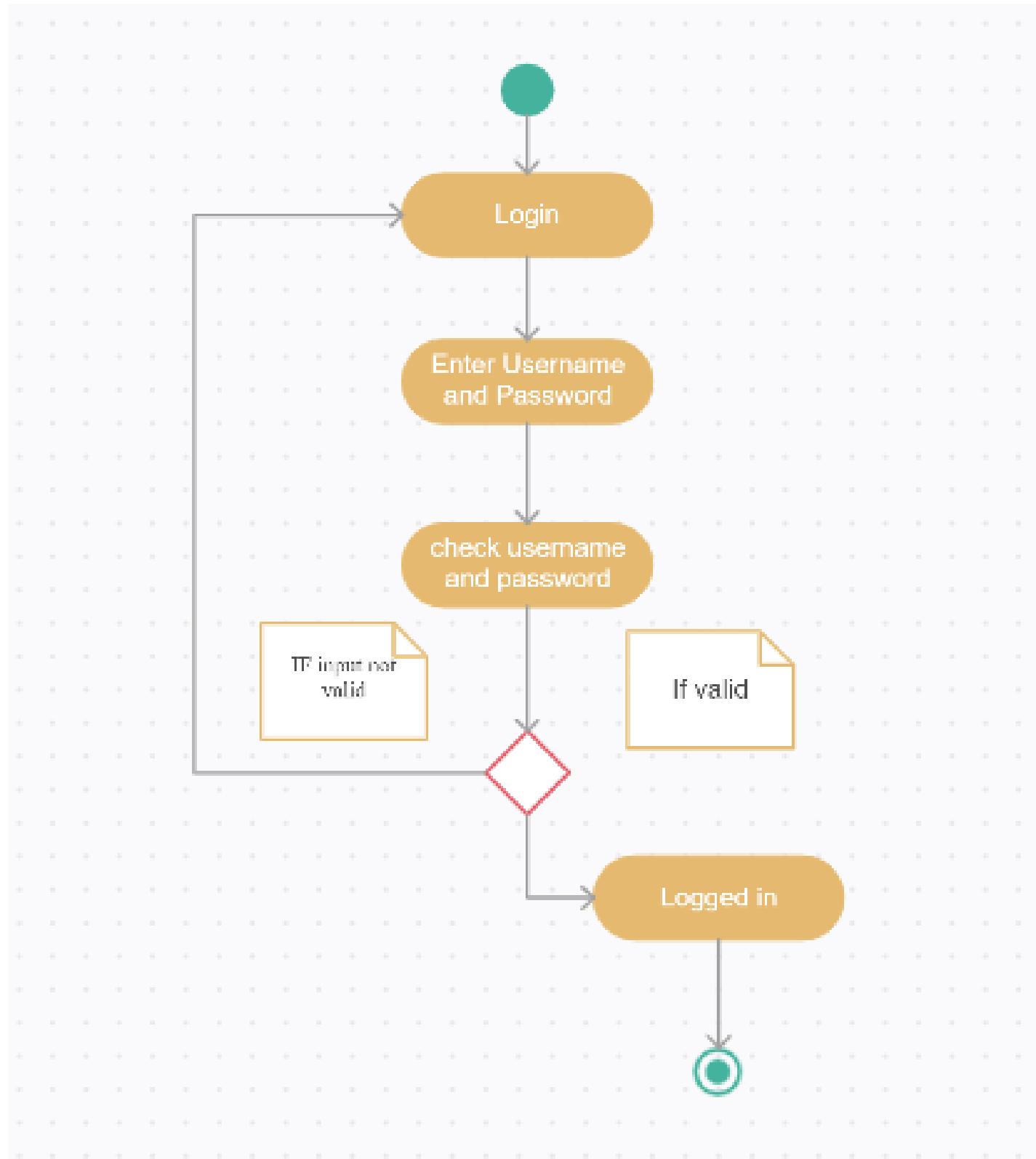
React Native ensures cross-platform compatibility, allowing the application to run seamlessly on both Android and iOS devices. The framework's hot reload feature facilitates quick iteration and testing on various devices, enhancing the development and debugging process.

Flowchart



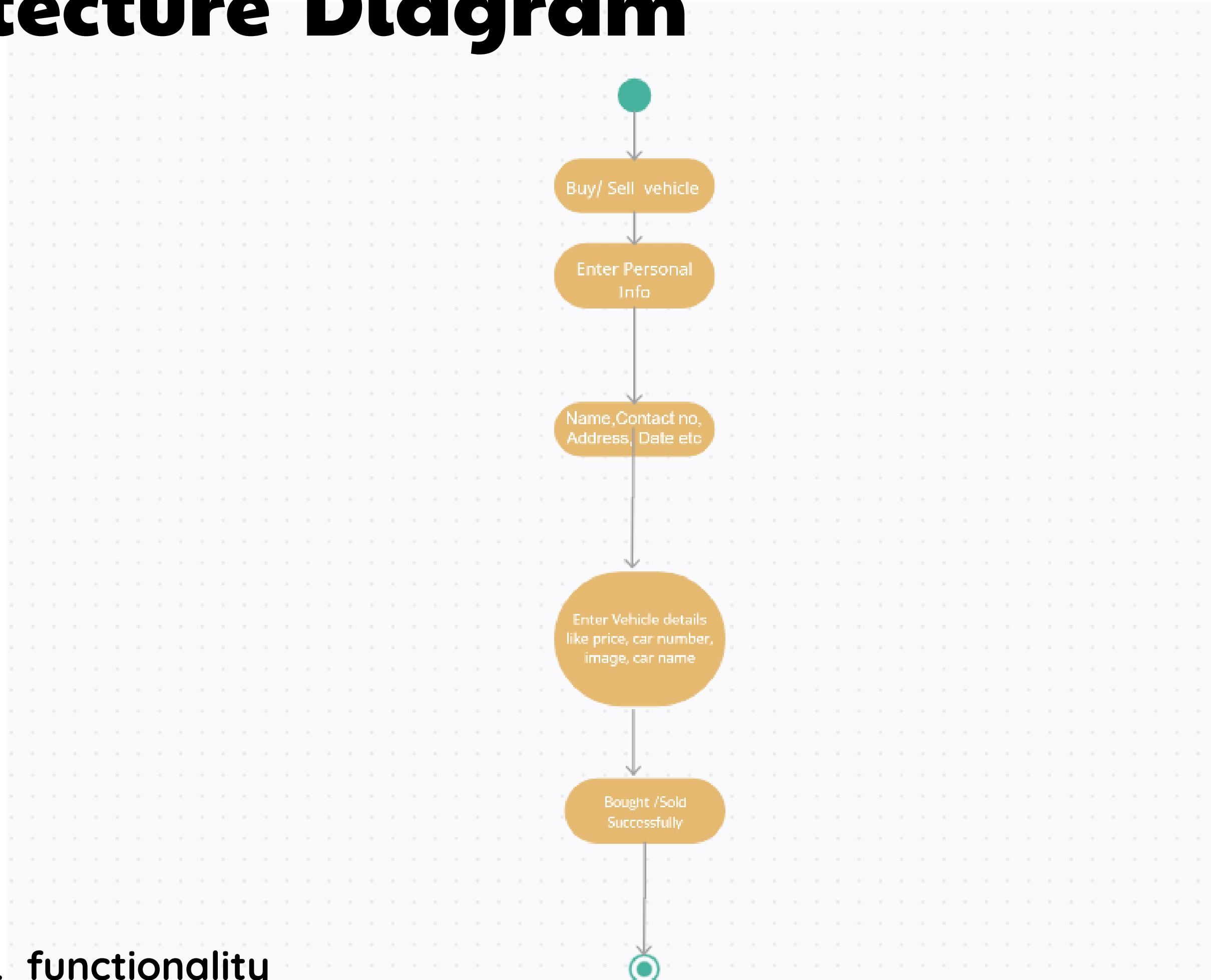
Login and register functionality

Architecture Diagram



LOGIN/REGISTER functionality

Architecture Diagram



BUY/SELL functionality

Screenshots

Car Seller Profile Buy/Sell

Sell/Buy your car

Login Here

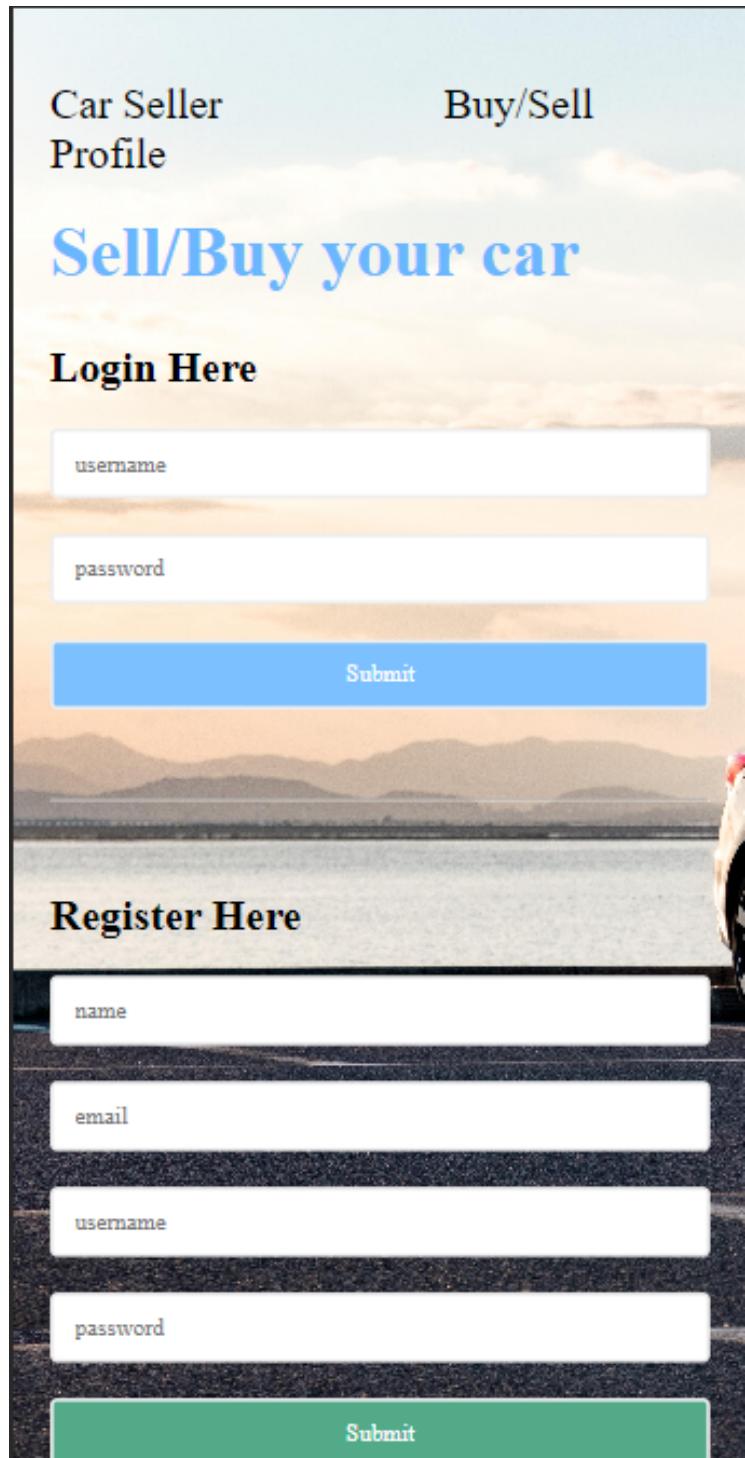
username
password

Submit

Register Here

name
email
username
password

Submit



Car Seller Buy/Sell Profile

Sell/Buy your car at really great price !!

Login Here

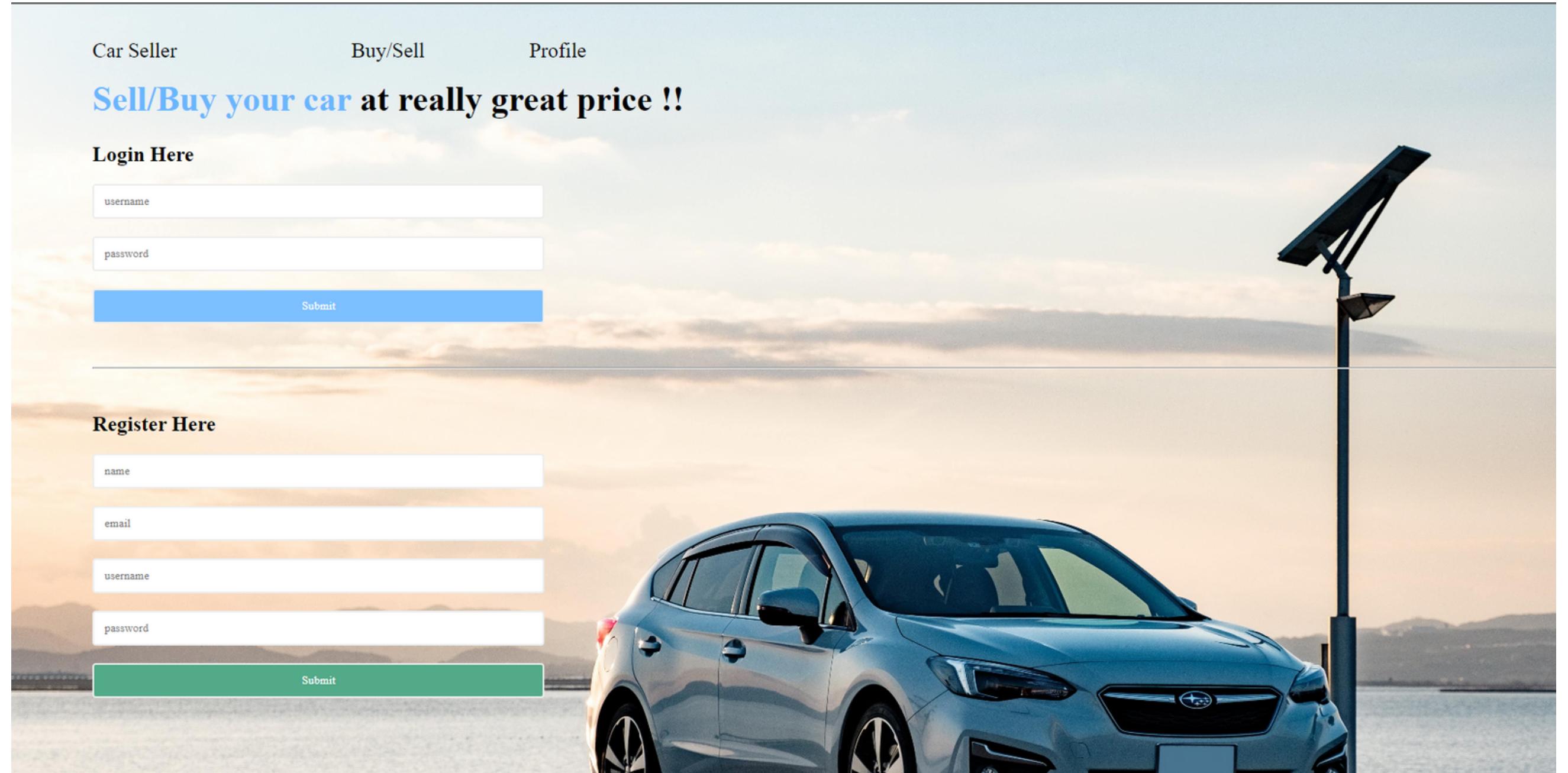
username
password

Submit

Register Here

name
email
username
password

Submit



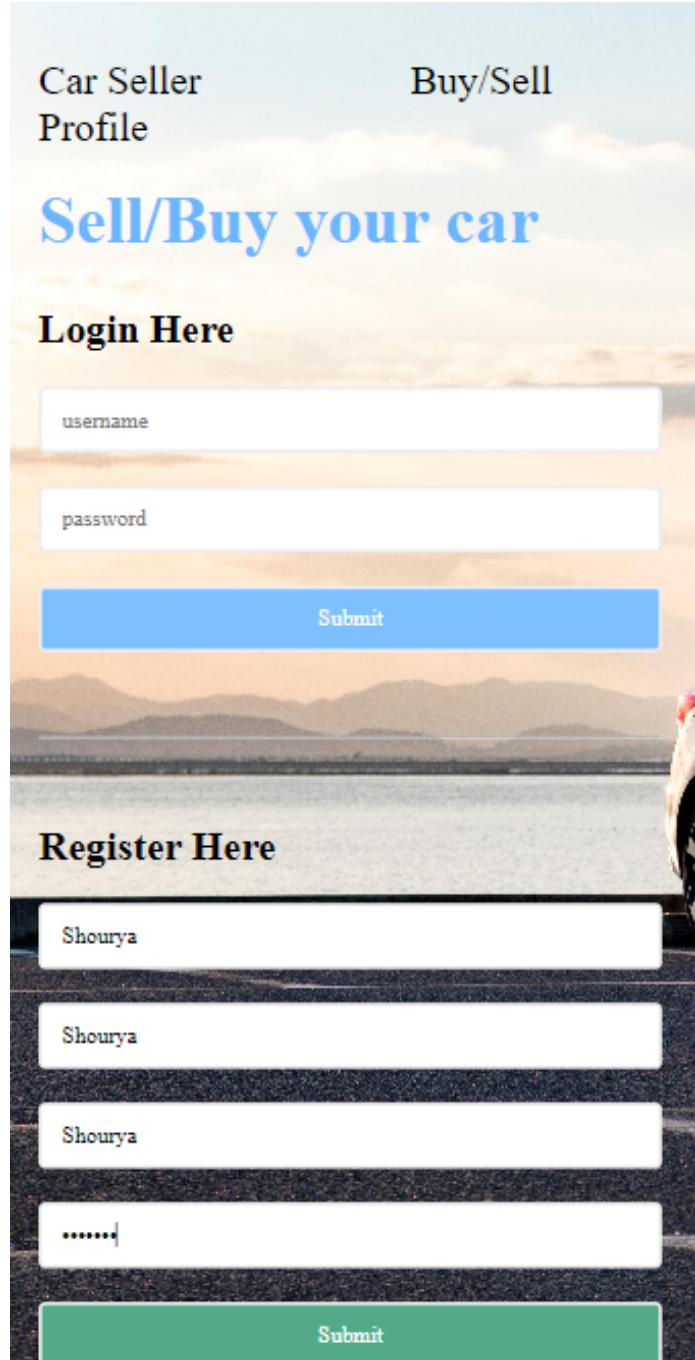
Screenshots

Car Seller Buy/Sell
Profile

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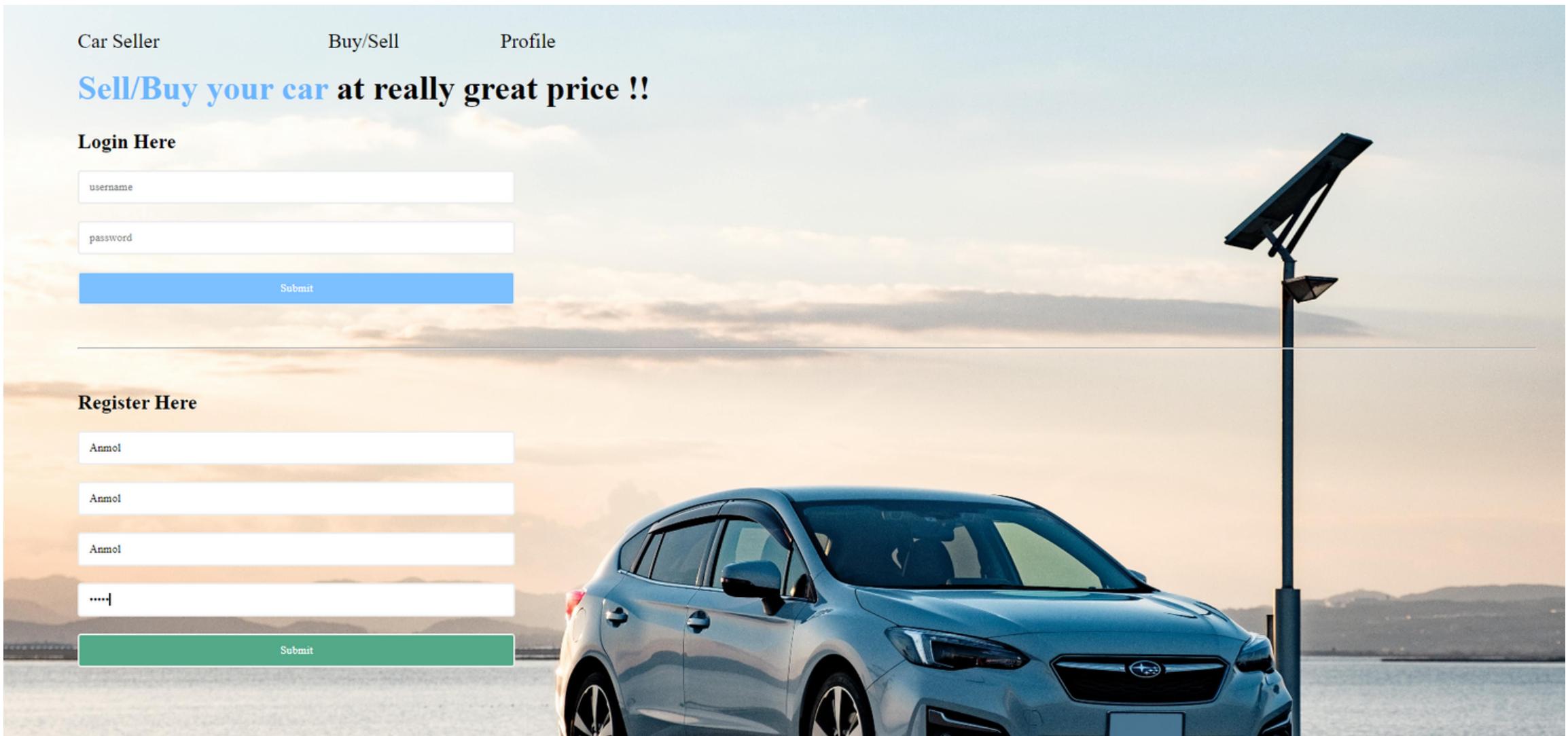


Car Seller Buy/Sell Profile

Sell/Buy your car at really great price !!

Login Here

Register Here



Screenshots

Car Seller Buy/Sell Profile Logout

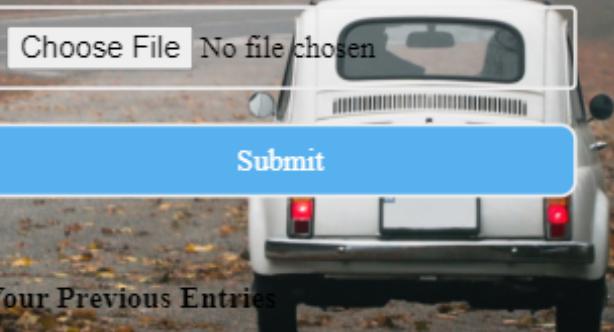
 Shourya
[change image](#)

Make new car selling listing.

car's price

car's name

contact

No file chosen


Submit

Your Previous Entries

Car Seller Buy/Sell Profile Logout

 Shourya
[change image](#)

Make new car selling listing.

car's price

car's name

contact

WraithModelImage.jpg


Submit

Your Previous Entries

Screenshots

The screenshot shows a web application interface for car sellers. At the top, there is a navigation bar with links for "Car Seller", "Buy/Sell", "Profile", and "Logout". Below the navigation, a user profile section displays a placeholder user icon, the name "anmol", and a "change image" button. The main content area is titled "Make new car selling listing." and contains four input fields: "car's price", "car's name", "contact", and a file upload field labeled "Choose File" with "No file chosen". A large blue "Submit" button is positioned below these fields. At the bottom left, there is a section titled "Your Previous Entries" featuring a thumbnail image of a group of people at a table, likely related to a previous listing or event.

Screenshots

Car Seller Buy/Sell Profile Logout

Anmol
[change image](#)

Make new car selling listing.

car's price

car's name

contact

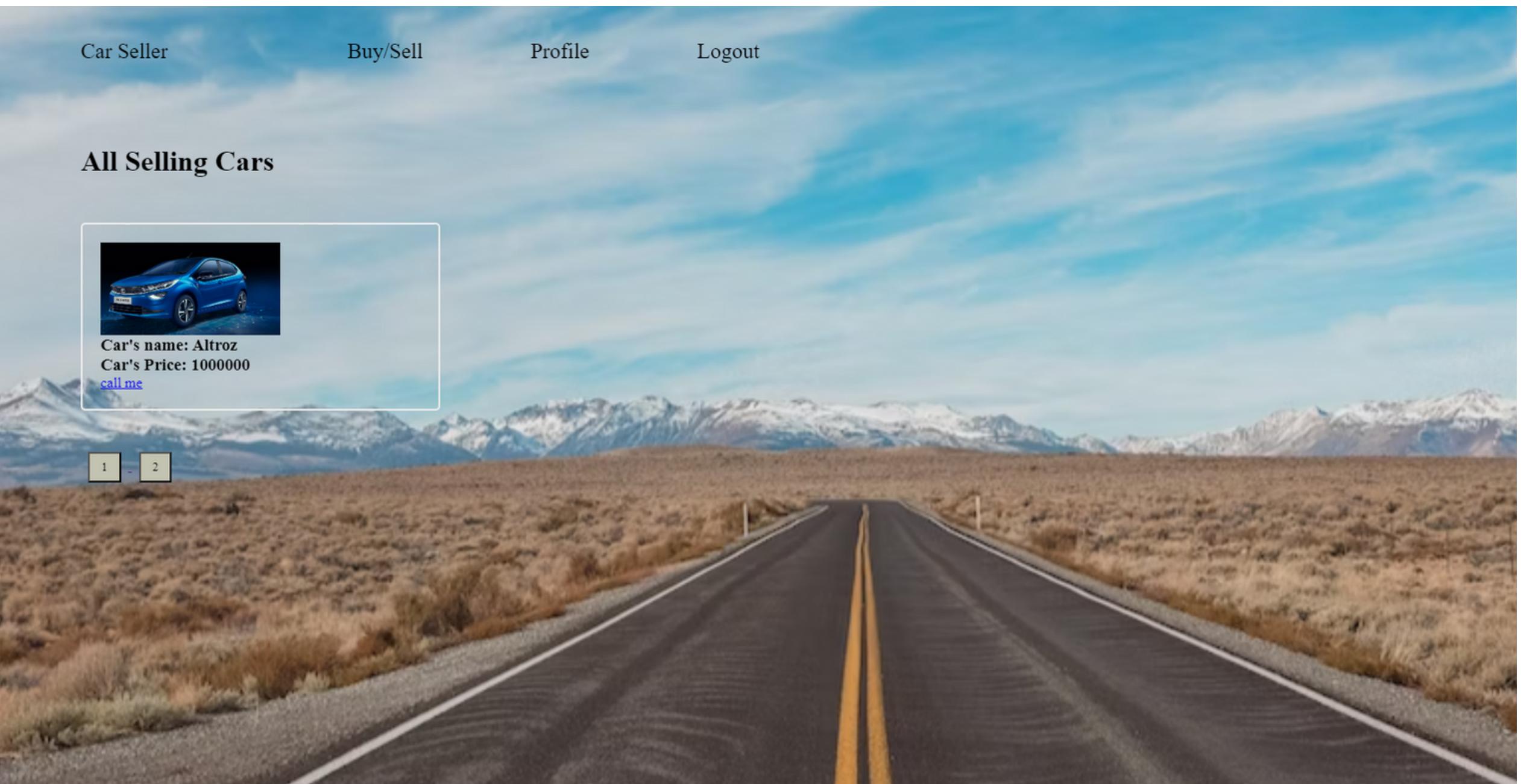
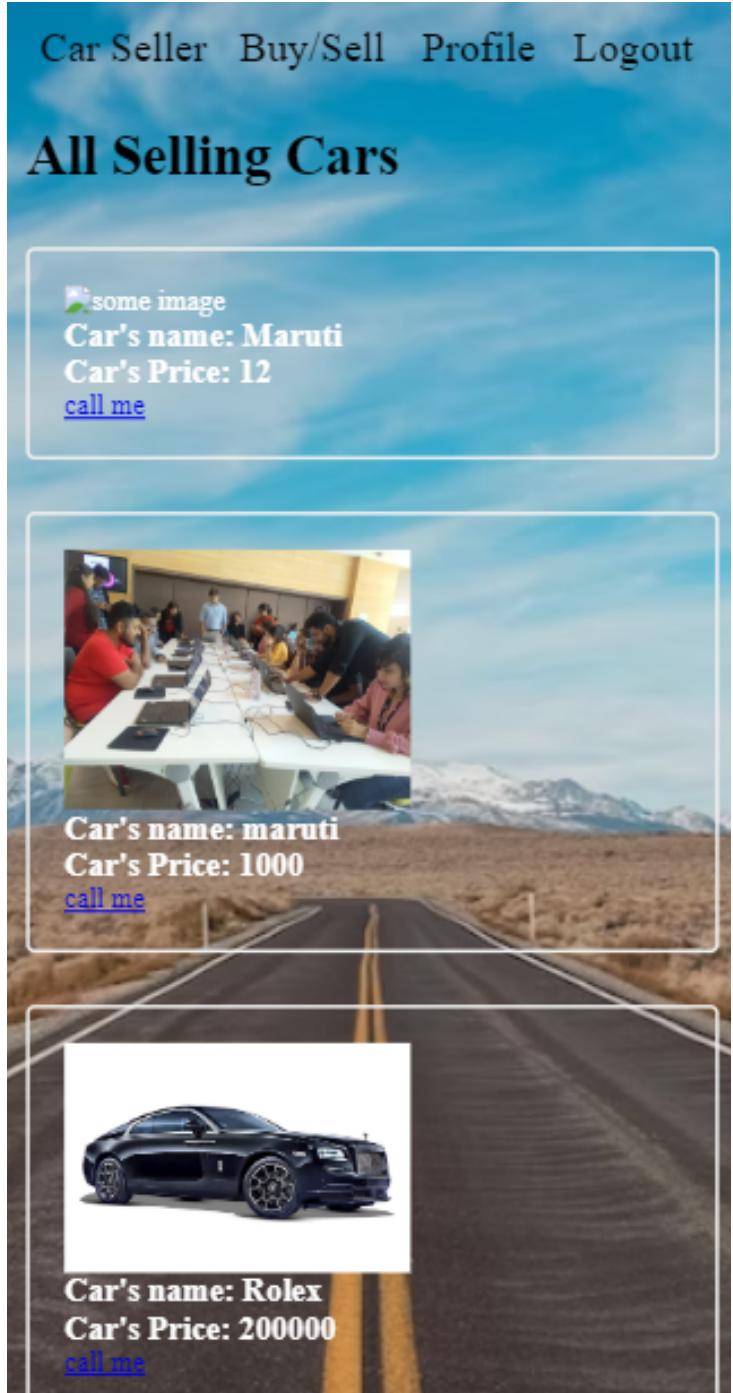
Choose File No file chosen

Submit

Your Previous Entries


Car's name: Altroz
Car's Price: 1000000
[edit entry](#)

Screenshots



Screenshots

Car Seller Buy/Sell Profile Logout



Shourya

[change image](#)

Make new car selling listing.

car's price

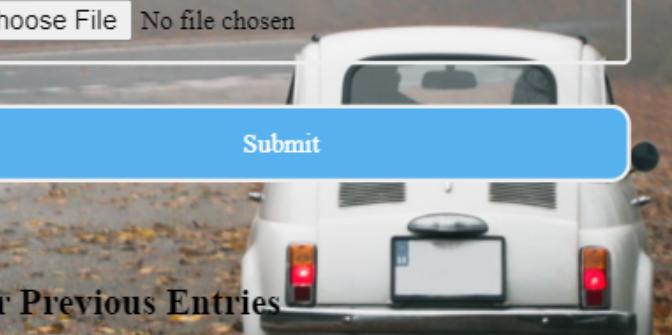
car's name

contact

Choose File No file chosen

[Submit](#)

Your Previous Entries



Car Seller Buy/Sell Profile Logout



Anmol

[change image](#)

Make new car selling listing.

car's price

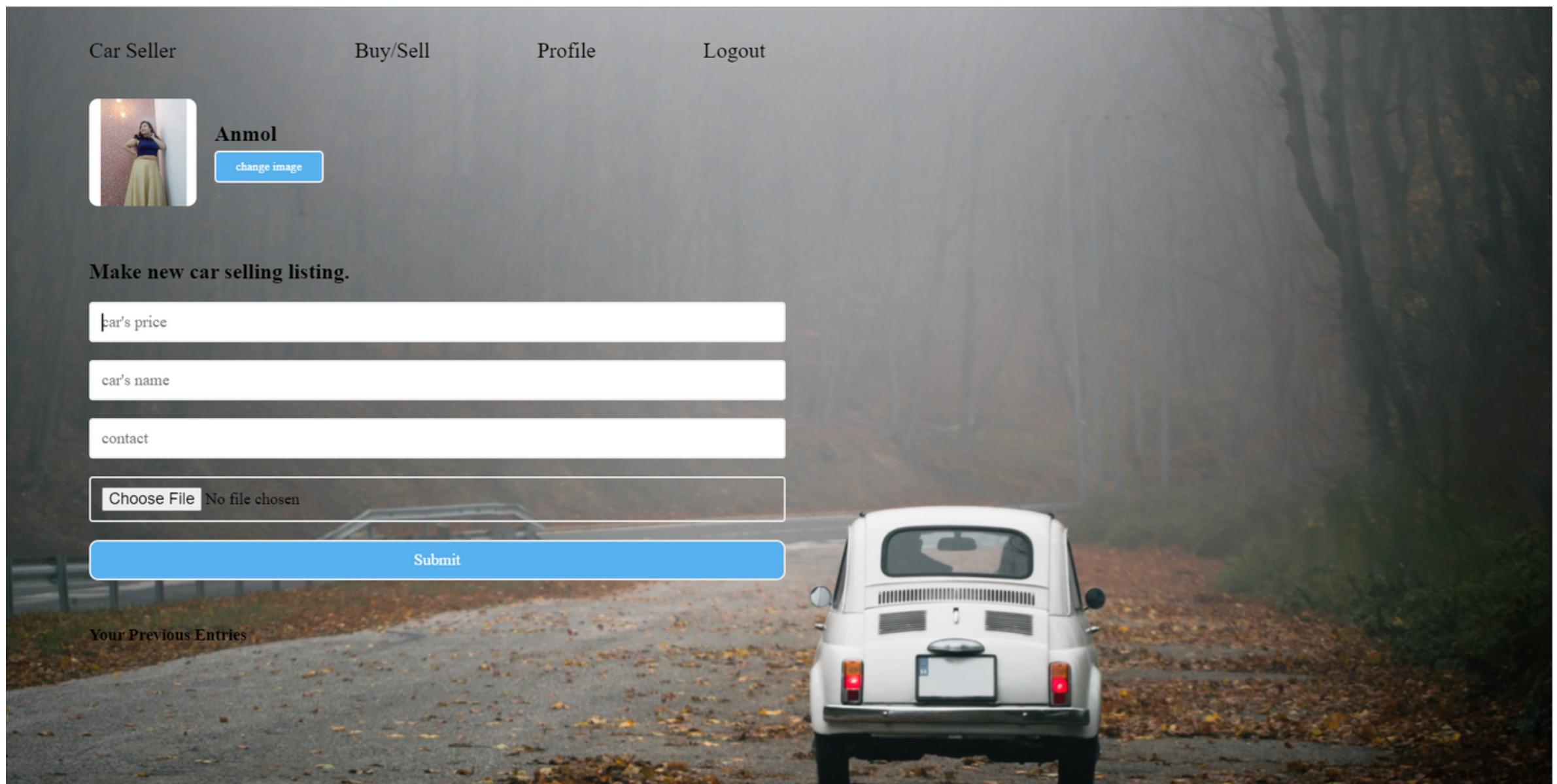
car's name

contact

Choose File No file chosen

[Submit](#)

Your Previous Entries



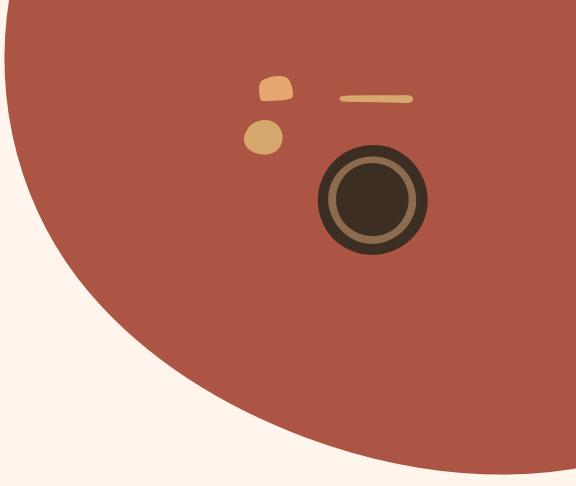
Challenges

- Performance Optimization:
 - React Native bridges JavaScript and native code, and this can introduce performance overhead. Ensuring smooth performance on both iOS and Android devices, especially for complex interactions, might require additional optimization efforts.
- Debugging and Development Tools:
 - Debugging tools for React Native are not as mature as those for native development. Identifying and fixing issues might be more challenging, especially when dealing with platform-specific bugs.
- Platform-Specific Limitations:
 - Addressing platform-specific limitations and ensuring that the app's functionality is consistent across both platforms.
- Cross-Platform UI/UX:
 - Consistent and responsive UI design across platforms.
 - Adherence to platform guidelines and extensive device testing.

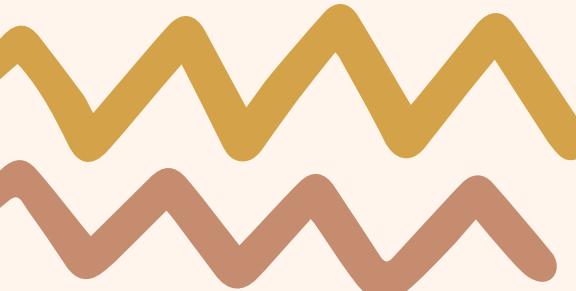




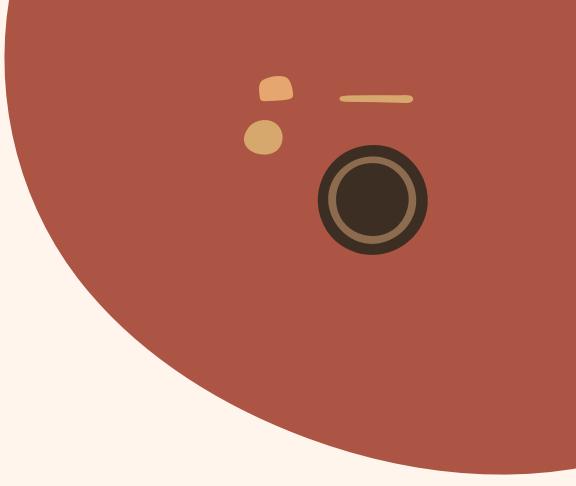
Interesting points



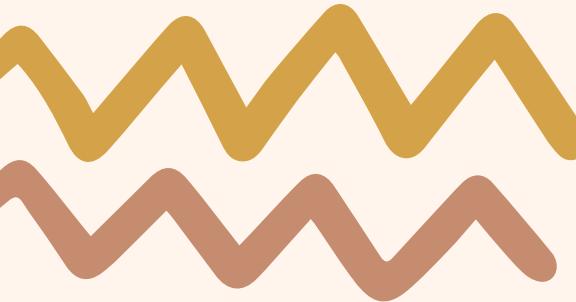
- User-Friendly Onboarding:
 1. Interest: Creating a seamless registration and login process.
 2. Benefits: Ensure a smooth onboarding experience to encourage user engagement from the start. Utilize social media login options for added convenience.
 - Intuitive Listing Creation:
 1. Interest: Developing a user-friendly interface for creating car listings.
 2. Benefits: Make the listing creation process straightforward with clear steps. Implement features like image uploading, detailed specifications, and a preview option to enhance the user's experience.
 - Rich Multimedia Integration:
 1. Interest: Allowing users to upload multiple high-quality images and videos for their car listings.
 2. Benefits: Visual content enhances the attractiveness of listings, providing potential buyers with a comprehensive view of the vehicles they are interested in.
- 



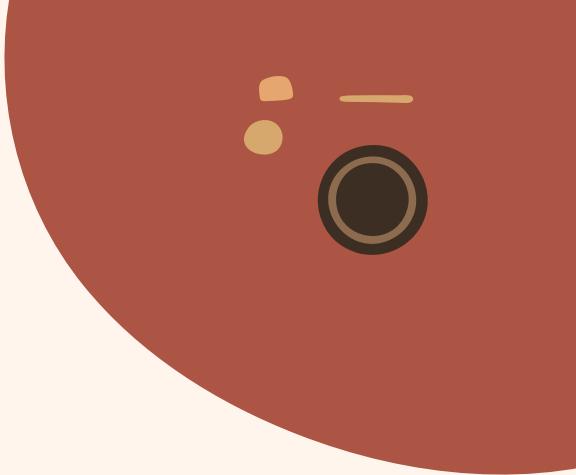
Interesting points



- Customizable User Profiles:
 1. Interest: Allow users to personalize their profiles with themes, colors, or custom avatars.
 2. Benefits: Enhances user identity and engagement, creating a more personalized experience within the app.
 - Easy Integration with Native Modules: React Native provides a bridge to native modules, allowing developers to access device-specific functionalities. This means that even though the majority of the app is built with JavaScript, developers can seamlessly integrate native code when needed.
- 



Future Enhancements



- Real-Time Chat:

Feature: Implement a real-time chat system between buyers and sellers.

Benefits: Enhances communication, allowing users to negotiate, ask questions, and discuss details in real-time.

- Vehicle History Reports:

Feature: Integrate with third-party services to provide comprehensive vehicle history reports.

Benefits: Builds trust among buyers by offering insights into a car's accident

- Multiple Language Support:

Feature: Offer the app in multiple languages to cater to a diverse user base.

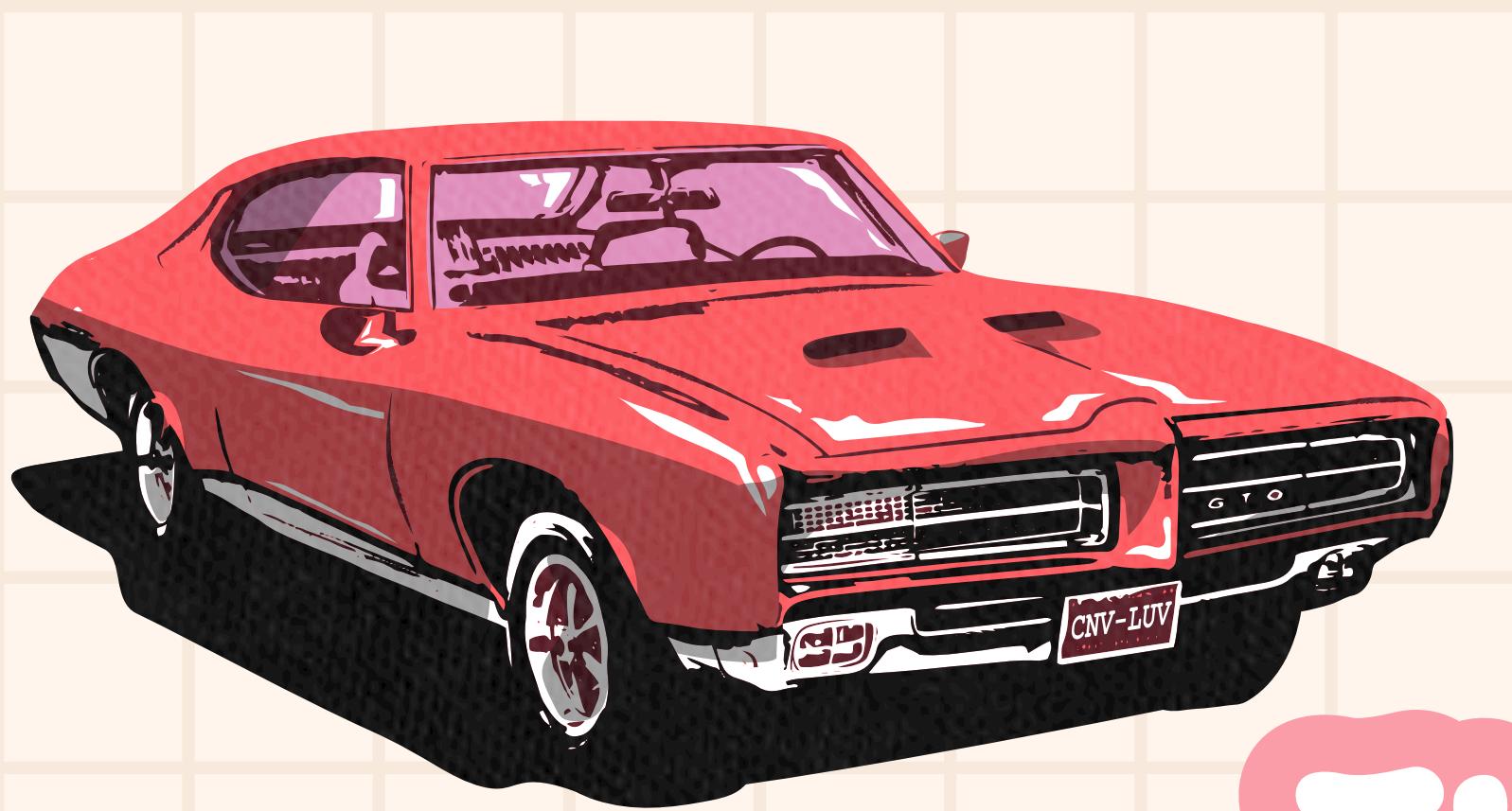
Benefits: Increases accessibility and makes the app more user-friendly for a global audience.

- Feedback and Ratings System:

Feature: Introduce a feedback and ratings system for buyers and sellers.

Benefits: Builds trust within the community and helps users make informed decisions.





THANK YOU
SO MUCH!

