

FFSD - PROJECT REPORT

PROJECT TITLE :- PrimeWheels

1. Team Members

1. **Vuppala Yashwanth** (S20230010263)
 2. **Yarramneni Dileep** (S20230010267)
 3. **Giddaluru Sandeep Chakravarthi** (S20230010091)
 4. **Annam Siddeshwer Reddy** (S20230010020)
 5. **Puttala Rakesh** (S20230010196)
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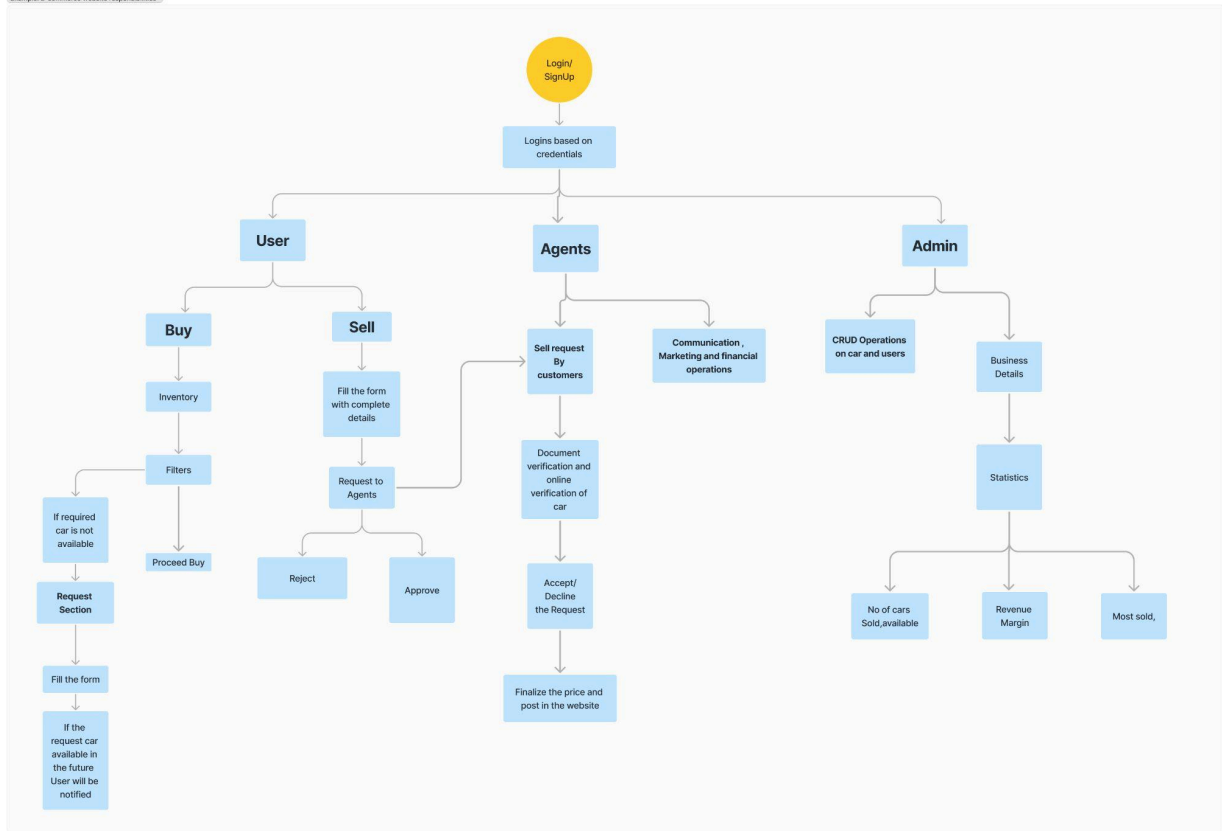
2. Abstract

PrimeWheels is a platform that makes buying and selling second-hand cars easy and reliable. It connects buyers, sellers, agents, and admins, ensuring smooth transactions and better customer experience. The system includes features like car inventory, filters, document checks, pricing, and useful business insights.

3. Flowchart

The PrimeWheels system flow is divided into three main roles:

1. **User:**
 - Buyers browse and filter the inventory.
 - Sellers submit car details for listing.
2. **Agent:**
 - Verifies car details and finalizes prices.
 - Approves or rejects sell requests.
3. **Admin:**
 - Manages users, cars, and generates business insights.



4. Key Features

4.1 User Module

Buy:

- Access a wide range of cars with filters like price and model.
- Request notifications for unavailable cars.

Sell:

- Submit car details through a form.
- Get approval from agents for listing.

4.2 Agent Module

- Verify documents and car details.
- Approve/reject cars and finalize pricing.
- Manage communication and financial tasks.

4.3 Admin Module

- Add, update, or delete car and user details.
 - Access business data, including sales and trends.
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5. Forms

5.1 User Registration Form

- Name, Email, Password, Contact Info.
- Address and Role (Buyer/Seller).

5.2 Sell Car Form

- Car Make, Model, Year, Price, and Description.
- Upload images and documents for verification.

5.3 Agent Approval Form

- Seller details.
 - Verification checklist and final price.
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6. Users

6.1 Buyers

- Search for cars using filters.
- Save cars to a wishlist.
- Purchase cars securely.

6.2 Sellers

- Submit car details for listing.
- Track approval status.

6.3 Agents

- Verify and approve cars.
- Ensure accurate listings.

6.4 Admins

- Manage data and ensure smooth platform operation.
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7. Pages

7.1 Home Page

- Highlights inventory and key features.
- Quick links to Buy, Sell, and Login.

7.2 Inventory Page

- Displays available cars with filters.
- Provides detailed car information.

7.3 Login/Signup Page

- Secure access for users, agents, and admins.

7.4 Admin Dashboard

- Detailed statistics on sales, revenue, and trends.
 - Tools for user and car management.
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8. Expected Outcomes

- Build trust in second-hand car deals.
 - Make buying and selling cars simple and fast.
 - Provide useful data insights for better decisions.
 - Improve customer satisfaction.
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9. Teammate's Contribution

1. Vuppala Yashwanth :

Yashwanth is responsible for working on EJS Templates, Controllers, Models, Forms/Form Validations, and the Utils section. He ensures the smooth creation and

integration of dynamic templates, efficient controllers for handling business logic, robust models for data interaction, and smooth form validations. His contributions are key in building a user-friendly and data-driven application.

2. **Yarramneni Dileep :**

Dileep focuses on Routes, Express, handling public files, server-side functionality, and DOM Manipulation. He plays an essential role in routing requests effectively, ensuring that public assets are served efficiently, and enabling seamless communication between the front-end and back-end. His work also enhances the user experience through interactive and responsive DOM manipulation.

3. **Giddalur Sandeep Chakravarthi :**

Sandeep works on Authentication, handling the notification section, managing search bars, database connections, and models. He ensures a secure authentication system, timely notifications for users, and smooth interaction with the database. His efforts are crucial for maintaining the integrity and usability of the application.

4. **Annam Siddeshwer Reddy :**

Siddeshwer Reddy contributes to Controllers, Middleware, server-side functions, Routes, Express, and error handling. He ensures proper request routing and error handling while implementing middleware for essential backend operations. His work ensures a robust and stable server-side infrastructure, promoting smooth user interaction and system performance.

5. **Puttala Rakesh :**

Rakesh focuses on UI/UX Design, EJS Templates, Filters on the inventory page, and Forms/Form Validations. He designs an intuitive and visually appealing user interface, ensuring the inventory page is functional with useful filters. His work on form validations enhances the user experience by making interactions easier and error-free.

9. Conclusion

PrimeWheels simplifies second-hand car deals by providing a trustworthy platform for buyers and sellers. With easy processes and efficient features, it ensures a better experience for everyone involved.