Project Title:

PLANET PIRATES

ProjectName: Car Pooling App

Team members:

1.B.Leela Parvathi (Serum Master)

2.Maheswari (Product Manager)

3.Pravallika (development team)

4.Sri Varshita (development team)

5.Hemanth Rishi (development team)

Tools:

1.React(Node js):for frontend

2.FireBase:for backend

3.Rasorpay:for payments

Work Divided as:

Frontend:(Pravallika,Hemanth Rishi**)**

Backend:(Sri Varshita,Maheswari**)**

DAY BY DAY WORK PROGRESS

DAY - 1

We discussed about the division of work according to their

interests,knowledge as mentioned above and discuss about how our website should look and our requirements for making our tasks according to our plan.

FrontEnd Work Structure:

1.login/sign up page

2.Home page(Find rides)

3.Offer Ride

4.History

5.stats

6.Settings

 3. Project Structure

- App.tsx - Main application component

- FilteredRides.tsx - Handles ride filtering and displays results

- firebaseConfig.ts - Firebase configuration

- index.css - Styles and UI components

4. Implementation Steps

Step 1: User Authentication*

- Firebase Authentication is used to manage user sessions.

- onAuthStateChanged listens for authentication status changes.

- Login and signup buttons navigate users to authentication pages.

Step 2: Ride Posting*

- Users can offer a ride by filling out a form (start location, destination, date, time, price, seats,

car model, license plate).

- The ride details are stored in Firebase under the user's ID.

Step 3: Ride Search & Filtering*

- Users enter search filters (start, destination, date, price range, seats required).

- The search data is passed to FilteredRides.tsx, which fetches matching rides.

Step 4: Booking a Ride*

- Users can click on a ride to view its details.

- The ride data is passed to the RideDetails page using React Router's state.

Step 5: Booking History & Statistics*

- A history section displays the user's past and upcoming bookings.

- The statistics section shows total rides, distance covered, average rating, and CO_2 saved.

Step 6: UI & Styling*

- Tailwind CSS is used for styling.

- Components include buttons, input fields, cards, and navbar.

- Smooth transitions and hover effects are applied.

 5. Features Summary

✓ User authentication (login/logout)

✓ Offer a ride

✓ Search and filter rides

✓ View ride details

✅ Book a ride

✅ Booking history

✅ Rider statistics

✅ Responsive UI with smooth transitions

 6. Future Enhancements

- Implement real-time ride updates

- Payment integration for ride booking

- User profile customization