PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Team No. : 1

Cruise Connect – A Car Rental Website

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Project Description :

Cruise Connect is a dynamic web platform designed to facilitate the rental of cars with a user-friendly interface and robust functionalities. Developed with React.js, Bootstrap, Node.js, and MongoDB, this platform allows users to seamlessly browse, search, and rent cars while enabling admins to manage the car inventory efficiently.

Plan of Work :

Day 1: Research and Planning
Define MVP features: basic user authentication, car listing, and admin CRUD.
Set up the React.js project structure.

Day 2: Basic UI and Backend
Create basic UI components for user authentication and listing car details.
Set up minimal backend API for retrieving and displaying car data.

Day 3: User Interface Enhancement
Refine UI components for improved usability.
Implement basic search/filter functionalities.

Day 4: Admin Functionality
Develop admin views for adding and deleting cars.
Enable basic user authentication for admin access.

Day 5: User Booking System
Implement minimal booking system for users to request a car rental.
Conduct initial testing of core functionalities.
Day 6: Testing and Polishing
Debug critical issues identified during testing.
Optimize existing functionalities for performance.

Day 7: Deployment Preparation
Prepare for deployment on a testing environment.
Create a brief setup guide and documentation.

Functionality :

User Authentication:
Basic user login/signup functionality.

Car Listings:
Display a list of available cars with basic details (make, model, image).

Search and Filter:
Minimal search and filtering options for users to find cars based on make, model, etc.

Admin CRUD:
Admin panel to add, delete, and update car listings.

User Booking System:
Allow users to request a car rental for specific dates.

Basic UI Refinement:
Improve basic UI components for better user experience.

Testing and Debugging:
Conduct initial testing and debugging of critical functionalities.

Deployment Preparation:
Prepare the project for deployment on a testing environment.

Documentation:
Create a brief setup guide or documentation for basic usage.

Tech Stack :

Frontend: React.js for building the user interface, utilizing Bootstrap for responsive design and layout.

Backend: Node.js for server-side logic and API development, integrating with MongoDB for database operations.

Database: MongoDB for storing car details, user information, and transaction records.

Project Ownership :

Nihal T M: Product Owner - Users Backend , Routes and Controllers, Searching

Nishanth D'Mello: Product Owner - Frontend Cars and Homepage, Payment Page

N Digvijay: Product Owner - Backend of Cars, Routes and Controllers, Database, Connection of Frontend and Backend

Rohit H: Product Owner - Frontend Login, Signup and Cars Page, Documentation