

Project Plan

I. **Title : HireMyCarNow** – A Comprehensive Car Rental Application

II. **Description :**

- This system aims to provide an efficient and user-friendly platform for customers to browse, select, and reserve rental Cars, while also offering administrative tools for managing the reservations and customer interactions.
- With the powerful Spring Boot backend technology and the interactive React frontend, this blend offers both dependability and scalability.
- Our objective is to offer a user-friendly platform for Car renters to effortlessly explore, find, and reserve vehicles that match their preferences and needs.

III. **Scope :**

- Our primary goal is to create a Car rental platform catering to individual travelers, families, and businesses seeking convenient online vehicle rental services.
- Develop the user interface and Implement responsive UI to ensure the platform works seamlessly on various devices. Integrate user registration, login, and authentication functionalities.
- Our objective is to offer a user-friendly platform for Car renters to effortlessly explore, find, and reserve vehicles that match their preferences and needs.
- Users will undergo authentication and authorization processes, enabling them to book cars, access booking specifics, monitor booking progress, initiate cancellations, and oversee their account particulars.
- The users should have the capability to explore a wide range of vehicles, apply filters based on factors such as make, model, color, size, and category. Additionally, they can sort the options by price, popularity, and recent additions. Once satisfied, users can select their preferred vehicles and submit documents then proceed to payment to finalize their rental orders.
- The admin will have the authority to introduce new items, revise product particulars like pricing, availability, category, and other relevant attributes.
- The Administrator should also be able to manage Customer accounts
- The admin should have the ability to plan a discount on the platform for a specified renting duration, for which discounts will be applicable to either all or selected cars.

IV. Actors / Roles and their Role descriptions :

- **Customer** - Explores the diverse vehicle options by utilizing sorting and filtering capabilities, places selected vehicles in the Cart, and completes the booking process by making payment.
- **Administrator** - The admin possesses the privilege to modify and revise cars along with customer information. Furthermore, they are empowered to reject bookings as per customer's document verifications.

V. Timeline :

Date	Phases
14-08-2023	Project Plan , Project Requirements gathering , SRS Documentation
15-08-2023	System Design – ER Diagram , Data Flow Diagram
16-08-2023	System Design – UML Diagrams
17-08-2023	System Design – UML Diagrams, Implementation
18-08-2023	Implementation
19-08-2023	Implementation
20-08-2023	Implementation
21-08-2023	Implementation
22-08-2023	Implementation
23-08-2023	Testing
24-08-2023	Integration Testing
25-08-2023	Deployment
26-08-2023	
27-08-2023	Project Presentation Practice
28-08-2023	Project Presentation(Tentative)

VI. Requirements

o Functional Requirements

Customer -

- Register on the platform or create a new account.
- Customer should verify mobile number and email through OTP.
- Log into their account to access the platform through password or OTP.
- Search cars for according Locations and Renting Duration.
- Browsing Car from different location according to Availability.
- Upload documents (Id card , Driving License) for booking approval
- Choose the preferable payment method and rent the Car through the payment gateway by paying order amount in advance.
- Update their account details like mobile number, addresses, email.
- View details of booking placed e.g. Rent date, Renting car details and option to review a car.
- Customer should be able cancel an order and receive refund equivalent to the amount.

- Customer should be able to return a Car within a specific duration.

Administrator –

- Signup and Login to the admin account.
- Add a new Car to the platform by specifying its name, some Cars images, the Models and Seats that it's available in, the colors it is available in, the discounts applicable on it, and its effective price.
- See and update all the Car details such as current available Car, colors, sizes, name, price etc.
- See and update all Booking Details.
- See All Customer details.
- Should be able to delete or remove a Car.
- Admin can approve or reject the booking as per Documents validity.
- Remove a customer's details/Account from the platform.
- Update Status of a booking as Booked/Available etc. whenever car is Booked/returned by customer.
- Generate discount which can be applied on the checkout page according to Booking duration.

○ **Non-functional Requirements**

- Intuitive and Easy-to-Use Interface ensuring a seamless experience for users.
- Implement User Authentication and Role-based Authorization for secure access.
- Secure Payment Interface.

VII. System Design (Basic) :

