SYNOPSIS

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Project Name:- RideRight

Submitted By:

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Section: - A

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Submitted To:

Mentor name: Mr. Sanjay Madaan

Designation: Technical Trainer

Department: CEA

Title of the Project:

Revolutionizing Mobility : “RideRight – The smart car rental system”

Objective:

The objective of my project “RideRight”, is to streamline the car rental process, making it convenient and efficient for both customers and car rental agencies.

Our aim is to simplify vehicle rental and improve the overall user experience.

Scope:

RideRight is a comprehensive car rental system designed to streamline the entire car rental process, offering a user-friendly and efficient experience from start to finish.

- **User Registration** -: RideRight will provide a user-friendly platform for customers to easily register and create accounts.

- **Vehicle Selection** -: Our system will offer a wild range of vehicle options.

- **Booking** -: RideRight simplifies the booking process, enabling users to reserve their chosen vehicles hassle-free and well in advance or for immediate use.

- **Secure Payment Processing** -: To ensure trust and convenience, RideRight will feature secure and reliable payment processing mechanisms.

Methodology:

Programming languages:

- Html
- CSS
- JavaScript

Software:

- Node.js
- React
- Tailwind CSS
- MongoDB
- Express.js

We plan to employ the following methodologies and technologies in our project:

1. MERN stack for application development.
2. MongoDB for database management.
3. User interface design using React.

Proposed System:

RideRight will be a web-based platform offering as intuitive user experience for customers and efficient management tools for car rental agencies. Customer can effortlessly browse, select and rent vehicles while agencies can maintain their fleet and monitor booking. Secure payment processing will be integrated for seamless transactions.

Features:

- User-friendly registration and authentication.
- Comprehensive vehicle catalog with images and detailed information.
- Streamlined booking and reservation system.
- Multiple secure payment methods.
- User-generated ratings and reviews.

Implementation Plan:

Our project will follow the following implementation plan:

1. Requirement analysis and innovative design
2. Robust database design and setup
3. Cutting-edge front-end development
4. Agile back-end development
5. Thorough integration, testing and debugging
6. Smooth deployment and user acceptance testing

Team Members:

Name -: Anjali Sachan

Resources Required:

1. MongoDB database for data storage.
2. React.js for crafting the sleek front-end.
3. Node.js and Express.js to power the innovative back-end.
4. State-of-the-art text editor or IDE.

References:

We will reference a variety of online resources, programming documentation, and research papers related to the MERN stack.

Expected Outcomes:

By the end of the project, we expect to deliver a fully functional car rental system accessible online. Users should be able to browse, book, and rent vehicles, while car rental agencies can manage their fleet and bookings efficiently through the platform.

Project Supervisor:

Name -: Mr. Sanjay Madaan

Conclusion:

The Car Rental System using MERN Stack project aims to provide a robust and user-friendly solution to streamline the car rental process. It will improve the overall experience for customers and simplify the management of car rental business. Through the use of modern web technologies, we anticipate achieving a successful outcome that benefits both users and car rental agencies.