Community Based Ride Sharing Platform

Flexi Credit Course CA3 – Mini Project

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Motivation for Selection of Topic:

The concept of social dialogue solves many problems in today's society, especially in cities and towns. Urban sprawl has led to increased traffic congestion, increased air pollution, and rising fuel prices, creating an urgent need for affordable and environmentally friendly travel options. Although the public transport system works well, it does not always meet the simple and convenient needs of daily commuters to make trips to other places in their community. In addition, the platform fosters a sense of community by connecting people who share similar travel experiences, allowing them to collectively reduce travel costs. The program not only provides the economic benefits of cycling, but also has an environmental impact, as it aligns with international efforts to reduce carbon emissions and promote sustainable development. By creating this platform, we want to benefit people by solving these problems and providing solutions to society.

Objective of the Project:

The main goal of the project is to create a userfriendly and scalable car sharing web applicaton that allows the community to participate in the sharing economy.

The main goals of the platform are:

1. Easy travel: allows users to easily find and book trips within the community, making travel more convenient and efficient.
2. Simplify the payment process: Provide a secure and seamless payment process, allow users to complete transactions on the platform, improve user experience, and have sad trust.
3. Reduce carbon footprint: Encourage the use of shared vehicles and promote environmental sustainability by reducing the number of cars on the road, thereby reducing overall emissions.
4. Encourage community participation: Foster a community where users can chat, share ideas, and recommend vehicles to others, thus encouraging community connections.
5. Ensure data privacy and security: Use effective security measures to protect user data, transactions and personal information.

Through this application, we aim to redefine social transportation to be safe and efficient, while also emphasizing security and privacy.

Customer Base:

The community-based ride-
sharing platform's customer base is large and diverse, spanning many cultures and regions.

Target users include:

1. Daily commuter: Someone who frequently travels between work or school and is looking for a reliable and affordable way to get around without a car.
2. Students and Educational Institutions: Students at colleges, universities, and other institutions who love cheap travel. Colleges and universities can promote the platform as a sustainable option for students.
3. Eco-
enthusiast: Someone who is committed to reducing their environmental impact and is passionate about making sustainable travel choices.

4. Employees and organizations: Companies are looking to reduce parking, travel costs, and carbon footprints by encouraging employee carpooling, especially over the long term.
5. General
Public: Anyone needing transportation within or between cities who can benefit from cost sharing, convenience, or last-mile connectivity.

The platform's appeal continues to be to those who are open to new ways of traveling and focused on community, cost savings, convenience and safety. As the platform grows, partnerships with local businesses and schools could expand the customer base and provide more travel support.

Summary of the Project:

The community-
based ridesharing platform is a web application built using the MERN stack (MongoDB, Express.js, React.js, and Node.js) to provide an integrated and efficient service.

The application has many features and functions designed to enhance the user experience:

1. User registration and personal information management: Users can register, create personal information, and log in to the platform securely to ensure data protection and privacy.
2. Vehicle Submission and Viewing: Users can submit a trip or search for existing trips. Each trip will provide details such as departure place, location, date, time, seat availability, and price.
3. Registration and payment: After selecting a route, users can register and pay through the platform's secure payment system. Payment status is instantly displayed and transparent.
4. Alerts and Notifications: Users receive notifications about booking confirmations, payment statuses, and trip alerts to ensure they are informed and prepared for their trip. Receipt and ticket management: After completing payment, users can view and download the receipt as a document and access the digital ticket for the booked itineraries. Community
5. Feedback and Reviews: Users can leave ride and ride feedback and contribute to the community review, thus increasing users' trust and confidence.

Overall, the program focuses on connecting, sharing costs, and traveling effectively by allowing users to develop a sense of community. The platform's user-
friendly interface, combined with push notifications and secure payment options, provides a seamless and efficient experience. With its emphasis on customer safety and convenience, the platform aims to redefine transportation in society.

Git Repository Link:

[GitHub Repository for the Community-Based Ride Sharing Platform]

(https://github.com/Gunveer06/Community-based-ridesharing-website)

Figma Link:

(https://www.figma.com/design/JaRimX1jfeDC4Un2amCjnm/Untitled?node-id=0-1&node-type=canvas&t=fjU0wB9eR6QnJzA8-0)