Shared Auto App

During our summer research internship, we will create an app for auto drivers and passengers. This app will enable auto drivers to indicate their availability and offer rides in specific areas, making it easier for passengers to locate them. With the ability to input their pick-up and drop-off locations, passengers can find available autos nearby and confirm a ride. Our goal is to create a user-friendly platform that will enhance the experience of both auto drivers and passengers, making commuting more convenient and accessible for everyone.

Features:

The key features of the app include the following:

- Enabling auto drivers to showcase their availability and offer rides in specific areas.
- Allowing passengers to input their pick-up and drop-off locations to locate available autos nearby.
- Offering a user-friendly interface for both auto drivers and passengers
- It offers shared rides, which are suitable for passengers.
- Providing a system for verifying the identity of auto drivers and ensuring the safety of passengers.
- Cancel anytime, but according to action will be taken.

Uses case/ Flow

Use Case: User Books a Shared Ride with Penalty System
Basic Flow:

1. The user opens the app and selects the final destination they want to reach.
2. The app displays a list of available rickshaws and shuttles nearby, which users can filter based on their preferences.
3. The user chooses the rickshaw or shuttle they prefer and raises their hand through the app.
4. The app reveals the user's location and the number of passengers to the available rickshaws and shuttle drivers nearby.
5. An available rickshaw or shuttle driver can accept the user's request by tagging(receiving the request) them in the app.
6. After the tagging, the app uses Google Maps to share the live location, time to reach, and distance between the user and the rickshaw or shuttle.
7. The user and the rickshaw or shuttle driver can track each other's live location and navigate to the pick-up location.
8. The rickshaw or shuttle driver confirms the user's identity at the pick-up location.

9. The app displays the fare the auto driver offers for a shared ride, including the number of passengers in the rickshaw or shuttle.
10. The user can choose to accept or decline the shared ride offer.
11. If the user cancels the ride after confirmation, a penalty charge will be applied to their account (based on the distance covered), and their rating will be decreased.
12. The ride ends at the final destination, and the app displays the final fare.
13. The user confirms the fare and rates the ride.
14. If the rickshaw or shuttle driver cancels the ride after confirmation, a penalty charge will be applied to their account (based on time wasted by the rickshaw), and their rating will be decreased.

USEFULNESS/ SCOPE :

For Auto Drivers:

- Enables auto drivers to showcase their availability and offer rides in specific areas, potentially increasing their income.
- By choosing to use a shuttle or shared ride service, drivers can anticipate that they will be able to pick up additional passengers along their route, enabling them to commence their journey without waiting for other passengers at their initial location.
- It provides a platform to connect with more passengers, expanding their customer base.
- It enhances convenience as drivers can quickly locate passengers needing a ride nearby.

For Passengers:

- It makes locating available autos nearby easier, reducing wait times.
- Users get an option of private and shared auto, which is unavailable today.
- Offers a convenient way to input their pick-up and drop-off locations, eliminating the need to negotiate fares with drivers.
- It enhances safety and security as passengers can confirm the identity of the auto driver before booking a ride.

Other functions can be added:

The app will also provide a secure payment gateway, making it hassle-free for passengers to pay for their rides.