

SOFTWARE ENGINEERING LAB REPORT-1

PROJECT TITLE: CAR POOLING FOR IITI

PROJECT GROUP: G3

Team members:

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Objective of the project:

The main objective of this project is to create an application software to facilitate sharing car journeys with people travelling towards the same direction. The car-pooling application enables users to share their car rides with other users. It helps the user to save their money and even reduce pollution.

A short review on the existing software applications available:

There are many software applications that are already built based on this idea of carpooling. e.g., uber X share, quick ride, ola share, uber pool...

The most common features among these applications are mentioned below:

- Safety is the first and most basic priority. Ensuring the safety and providing a secured ride with fair prices must be done with proper documentation of the rules, insurance policies.
- A live tracking and group chat feature with co-riders to coordinate smooth pickups
- A pre booking option or scheduling the ride
- A support and help team which would be active for 24/7 to take up the queries and concerns of users
- We could set the co-passenger preferences and could cancel the ride if any discomfort faced from the co-traveller
- Offers, coupons and free rides that can be redeemed anytime
- The vehicle/bike/sedan cars/7-seaters can be chosen and the prices accordingly
- Door to door and station to station rides and private rides are also included in the software
- A feature similar to google maps must be included in the application software to track the locations of the co-riders and the driver.

Some special Features that we are interested to add-on:

- We could add a feature called rapid ride which enables users to reach the destination in lesser time but with an increased price. This can be used for critical and emergency purposes.
- We could also add a daily ride feature with a reduced ride cost and with this feature we could also schedule the weekly, monthly rides.
- We could add a special ride feature in which we could add special riding instructions. For example, there must be special care taken while the rider is handicapped ,or carrying some delicate items ,or the rider is a pregnant

Disadvantages and limitations:

- Since the prices and routes are fixed, there will be no option to cancel the ride in the middle of the journey, because this causes a change in the route and plans for the other riders
- The cab booked can stop at a rider's pick up point only for a limited time. If the rider is not boarded, then the ride will be cancelled, because other co-riders must reach their destination yet.

This car pooling enables the people to socialize, reduce the traffic and pollution to some extent. It also saves the fuel costs and makes the most economical utility out of a single journey compared to the journey of the riders individually.

