DAMG6210 Data Management and Database Design
Group 18
Carpooling

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Mission Statement:

This project demonstrates the use of database to solve the problem of individuals facing difficulty to find the most efficient and cost effective rides to their destination for eg Companies, University or Planned Trips.

Mission Objectives:

Centralized system that consists of all the rides data, will be accessible by any individual who is enrolled in the university for eg students, faculty or staff members

Determining when and where to organize a car ride based on the set threshold (a pre-decided minimum number of people decided by the car owner).

A passenger can post a request the details about the ride (Source, destination and time, and if other people are tagging along)

A person can post about their trip to a pre-destined location and other people can join in by putting up a request and they will be selected on a first come first serve basis.

An accurate database will help car owners to organize and manage their day to day rides and cut down their cost of gas and efficiently plan their route so they can cater to every request.

The database system can be accessed only by the authorized personnel, leading to a high security environment for sensitive user information.

The cost will be decided in two factors:

1) If someone owns a car: The number of miles the passenger is travelling and the fuel cost to ride that distance
2) If someone is renting a car: Basic rent divided among the number of people with extra fuel charges if applicable

Background:

Few of us were on coop the last year and we faced the issue of finding a cheaper and efficient way to travel to our company, finding a group to carpool to the same location at the same time who live near by was very difficult. We had to ask a lot of people, post on social media groups and would somehow get one or two leads, which was very inefficient. So, we decided to create a database in which people can post their ride request and people who own the car and want some people to tag along they can post their requests as well.