# ETI Assignment 1

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Class: P01

# Design considerations

To set up the microservices, I decided to separate the program into 3 microservices, one for the user, one for drivers and one for trips. It is most suitable for the program as all 3 have different functions. The user can create, update and delete user accounts, but can enroll in trips. Whereas the driver can also create, update and delete accounts but can also create trips for users to enroll in.

Trips microservice has to be connected to the users and drivers microservice as it requires user id for users who enroll in the trip as well as driver id for drivers who choose to create and edit the trip. The user and driver microservice does not require each other to operate.

Drivers

Trips

Users

Car Pooling Service

How to run

To run the program, first, the database must be created.

1. Create a connection and choose a password
2. Open the SQL file provided in MySQL and press the lightning icon to run the sql script. A database will then be created which is used to store data for the microservice to use. It contains one table for the user, one for drivers and one for trips.
3. Open 3 instances of command prompt
4. Navigate to the directory of each of the 3 microservices.
5. Copy and paste the directory in the command prompt like this

“cd <Insert directory here>”

1. If packages are not installed, type in “got get github.com/go-sql-driver/mysql” and

“go get github.com/gorilla/mux”

1. Type in “go run .” to run the microservice
2. Repeat for each of the microservices
3. Open the HTML file to run the program

A screenshot of a computer

Description automatically generated