Homework 5 - Interim Project Report

Team Members and Project Title:

- Danny Nguyen
- Edwin Chiang
- Long Nguyen

DinoCo

Summary:

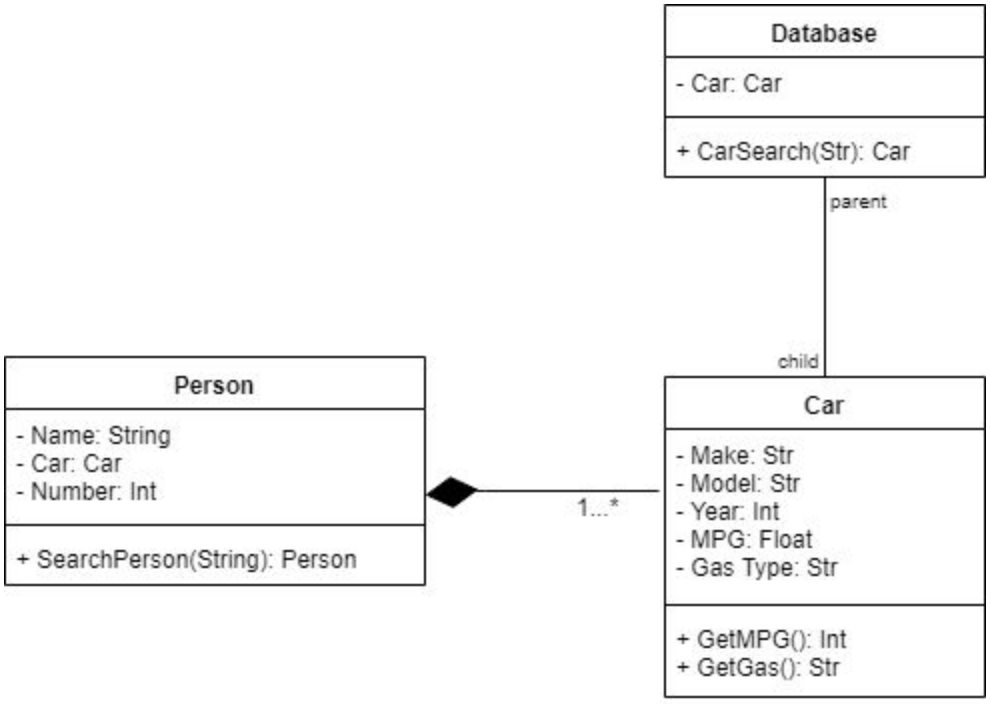
In the first two weeks of this project our group has decided on a dataset to use for our web app which includes car make and models as well as their MPG and other relevant information. This dataset was scraped to matched our specific needs and put into a cloud based database. On the front end side, a login page and home page have been created with react components to add functionality for different objects on each page. So far the login function is almost complete and the homepage is still a work in progress.

Long: I have been working on integrating all parts of the stack into the microframework Flask, I have currently been able to integrate React.js into Flask's templating and views. I still need to figure out how to use SQLAlchemy to access our database and use the data for most of the logic required for our app to function as well as the RESTful API to have data come in from users using different functions through the front end pages that we have created.

Danny: My specific role within this web app is to create the front end through react which allows for simple and interactive UI components. So far I have created a login and home page which have functioning login features. I still have to implement map functionality and finding routes between endpoints. I also have to implement a mileage calculator to determine costs of trips.

Edwin: I have found the data set that would be relevant in our project. Since we are looking at the gas mileage of cars to set up costs for a trip. I made an overview of all items that we need from the data set. Somethings that I need is the Year, Make, Model, Engine Cylinder, Fuel Type 1, Fuel Type 2, Combined MPG FT1, Combined MPG FT2, Annual Fuel Cost FT1, Annual Fuel Cost FT2. From this set of information I can find all useful information needed for travel. Year, Make, Model, Engine Cylinder searches for the vehicle used for travel and all other information is needed to calculate miles. There is another limit on the data which is the Year, we will not be looking at cars older than 2019 for safety reasons.

Current Class Diagram:



Plans for Next Two Week Iteration:

Danny: My plans for the next two weeks are to begin implementing a mileage calculator using react components and HTML/CSS objects. Along with this is getting a route mapped out between two locations to determine specific stops and budgeting options. There will also be more options for the user to manage their account and delete it if wanted.

Long: My main plan for the next two weeks are to have the frontend and backend fully integrated with each other so that changes on either end are seen by the other end and then have some form of the app deployed on Heroku so that we can properly test all parts of our app as well as have something that users can use as well.

Edwin: I plan to move all the data from the database into its own object. From there, it will need to be able to work with the other functions like finding the car they have, saving the car to the user, and find the cost of the trip. Much of this work will be done with Danny as we both need the same parts.