GitHub: https://github.com/yuri-58/Final.git

YouTube: https://youtu.be/uoTDndcmbmE

Project Participants:

List all group members here. Just write your name if you are working solo.

Uriel Steven Torres Diaz

Title:

Car-Stats

Executive Summary:

This is where you will describe what your project is intended to do.

Remember, this project should be completed in **3 weeks time**. If you can't explain it in 1-2 paragraphs, you may need to scale it back so you can complete your initial features on time.

This project will keep a database of simple Driver statistics of users. It will include the following entities:

CarType: Make, Model, Edition, Year

Engine: Model, Year, HorsePower, Notes

Drivers: First Name, Last Name, PhoneNumber, Email

DriverTrackStats: 0-60 time, 0-100 time, Top Speed, HorsePower

Tracks: Name, PhoneNumber, Email, Address, City, State, Zipcode

Initial Features:

- Create new Drivers
- Create new Cars
- Create new Engine
- Create new Race Track
- Create new Driver Stat
- Update existing Track
- Update existing Driver Data
- Update existing Car Data
- Update Car Data with existing Engine Data to existing Driver Car Data (Engines will not exist in Car Data, but with Driver Data to owned Vehicles. So, Driver Data will have Car Ids that will include a generic Engine Id that represents a "Stock Engine", unless the Driver enters a different Engine than mentioned, then the Engine Id, that is with the Driver Data, will have a different Id than the "Stock Engine" Id)
- Update existing Driver Stat if new Stats are better than existing ones.
- Delete Track
- Get a List of all Tracks a Driver has been on

Joining multiple tables through JPA

```json
{
"driverPhoNum" : 1111234567,
"driverFirstName" : "Brick",
"driverLastName" : "Lash",
"driverEmail" : "BLash@anon.com"
}
```

```json
{
"carMake" : "Jeep",
"carModel" : "Compass",
"carEdition" : "TrailHawk",
"carYear" : 2018
}
```

```json
{
"engineModel" : "2.0 L 4-cylinder",
"engineYear" : 2018,
"engineHorsePower" : 272,
"engineNotes" : "Max engine speed: 7000rpm"
}
```

```json
{
"trackName" : "Thunder Mountain",
"trackPhoNum" : 1234567891,
"trackEmail" : "TMountain@anon.com",
"trackAddress" : "123 Not a Real St",
"trackCity" : "Willows",
"trackState" : "CA",
"trackZipCode" : 12345
}
```

```json
{
"driverId" : 2,
"trackId" : 2,
"stat0to60Time" : "8.65 secs",
"stat0to100Time" : "9.1 secs",
```

```
"statFastestLapTime" : "3:45 mins:secs",
"statTopSpeed" : "111mph"
}
```