TECHNICHAL REPORT

CPS 630

PLAN FOR SMART SERVICES (IT 3 & 4)

GROUP 11

RYERSON, 2021

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**2) PROJECT OBJECTIVE:**

To create a system that offers users the ability to choose their ride and/or delivery items.

In this project, I have made use of following technologies:

* PHP (as a server-side scripting language)
* MySql (as a database engine)
* React (in the front end)
* Google Map APIs
* Postman (as a testing tool for backend api’s)

**3) PROJECT DESIGN:**

User is requested to login in order to use this application.

The main page of the application offers users to search for an available car in the system.

The menu offers the following options to the user:

* Home – button that takes the users to homepage
* Types of Services – drop down menu with the types of services
  + Ride – a service where user can request a ride
  + Ride and Deliver – a service where the user can request a delivery
* About Us – button that takes to about us page
* Contact Us – button that takes to contact us page
* My trips – button that takes to a page showing all trips that logged in user has done
* Reviews – button that takes to reviews page
* Database Maintain – a drop down menu with the following options
  + Car Table – allows the user to add/update/delete from car table
  + Flower Table – allows the user to add/update/delete from flower table
* Shopping Cart – button that takes the user to shopping cart
* Sign Up – button that takes the user to a sign-up page
* Sign Out – button that signs user out of system

This application offers API endpoints for communication with the backend services (found in backend folder).

The backend folder structure is as follows:

*tables* folder which contains PHP files implementing PHP classes for each table in the database

Then for each table in database, there is a folder that offers its api endpoints such as, CREATE, READ, UPDATE and/or DELETE.

For example: *cars, flowers, delivery, trips* are folders containing the API endpoints for the respective tables.

The database handling is done through the PHP database class at backend*/config/database.php*

To provide security for our users, we use hashing mechanisms at security points. For example, the user password is hashed before getting saved to database.

**4) DATABASE STRUCTURE:**

An image representing the relation of tables of *asg1 database* used for this iteration:

