Shopping Route Recommender

ELEN 4009 Software Engineering Project 2016

The projects primary focus is on documenting the process of designing a software product

Product Summary

The Shopping Route Recommender is a web application that aims to improve the general publics day-to-day life. The product proposes to do this by reducing the associated stresses of shopping. In specific that application aims to:

- Allow users to add items to a shopping list on an adhoc basis
- Generate a route that optimises based on either of the following user inputs:
 - Fastest possible route to obtaining all the products
 - Shortest possible route to obtaining all the products
 - Cheapest possible route to obtaining all the products

Prerequisits

- Install apache2 server and PHP5
- Install and setup postgresql
 - sudo apt-get install postgresql-9.3
 - sudo apt-get install php5-pgsql

Setup

NOTE: If the user has already installed postgresql they may need to edit the .php files and change the password

- Create a postgresql database called srrec
 - sudo -i -u postgres
 - createuser --interactive
 - * username: srrec
 - psql postgres
 - \password postgres
 - * password: srrec
 - ctrl + d
 - createdb srrec
 - psql srrec
 - \password srrec
 - * password: srrec

Running the back-end code

Copy the .txt files located in Code/back_end/ into the root folder of postgresql, the default for this on Linux is /var/lib/postgresql/9.3/main > sudo cp -f *.txt /var/lib/postgresql/9.3/main

NOTE: The following steps are temporary implementations until properly integrated with the front-end

Create the database tables - from within the $/\text{Code/back_end/}$ folder run: > php setup_database.php

Create the possible permutations for the shopping list saved on the database, run: > php database_permutations.php

Create 2D array containing all locations for different routes (each route is a row and each column in a row is a waypoint), run: > php get_route_information.php

Running the front-end code

Copy the contents of the /Code/front_end/ into the root folder of the apache2 server, the default location for this in Ubuntu is: /var/www/html/

Open your web-browser and access localhost/index.php - All other web pages will be accessible from this page