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COMSC-211

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Final project proposal

**Take-Me-With-You Trip Planner**

I would like to design and implement an application that plans a one-day trip for travelers. The user can choose where they want to go, the program will plan out how to get there by car, what other nearby places of interest there are and how long it takes to finish the whole trip. The program uses PhoneGap, allowing cross-platform compatibility so that users can use the application on their mobile phones.

Take-Me-With-You helps people who love adventures and are new to a place can explore and travel with minimal preparation. With a car and a general idea of where to go, user can use this application as a guide to discover new places and try out new activities.

Take-Me-With-You would take in input from user including current location, destination and how long to stay at each place. I will use Google Map API to get the map and locations for the program. After the user provides origin and destination, the program will compute the shortest route between origin and destination. After that, it will show a list of places nearby for user to choose. The user chooses how long to stay at each location and the program will show the total trip time.

The data storage requirement for the application is saving a list of places of interests to find the shortest route between places. This can potentially be stored as a graph.

**Milestones**:

* Finish project proposal
* Create repository for project
* Create first page of website, taking in origin and destination
* Register for Google Map API
* Create second page skeleton and GUI
* Get and show map on second page
* Get the shortest route between origin and destination
* Show list of places of interest
* Allow user to choose from the list
* Sort the chosen places to get the shortest routes
* Allow the user to decide how long to stay in each place
* Compute the total trip time
* Refine code and GUI
* Get the application to run on phone using PhoneGap
* Final report complete

**Reach Milestones**:

* *Let the program randomize places to go*
* *If the trip is pass noon or diner time, suggest restaurants*
* *Find gas stations along the route*

**Calendar**:

**Week 1: Nov 2 – 8**

* Finish project proposal
* Create repository for project

**Week 2: Nov 9 – 15**

* Create first page of website, taking in origin and destination
* Register for Google Map API
* Create second page skeleton and GUI
* Get and show map on second page

**Week 3: Nov 16 – 29**

* Get the shortest route between origin and destination
* Show list of places of interest
* Allow user to choose from the list

**Week 4: Nov 23 – 29 (Thanksgiving Week)**

* Sort the chosen places to get the shortest routes

**Week 5: Nov 30 – Dec 6**

* Allow the user to decide how long to stay in each place
* Compute the total trip time
* *Let the program randomize places to go*
* Refine code and GUI, debug everything

**Week 6: Dec 7 – 13**

* Get the application to run on phone using PhoneGap
* *If the trip is pass noon or diner time, suggest restaurants*
* *Find gas stations along the route*
* Final report complete