**PROJECT CHARTER**

***Introduction***

**MISSION:**

To allow groups of people to easily create community-building, pub crawl-style events.

**Solution:**

Use google earth pro or google maps API to create viable and easily traversable routes between a given list of special interest points in a “pub crawl” fashion. The user should be able to see the overall distance of the route as well as distance between two points and details about points intuitively by minimizing the amount of user input needed.

***Vision of the Solution***

**VISION:**

Given a list of points of interest, the app should create a logical, traversable route between them to facilitate pub crawl style event.

**Opportunity:**

In a world where social applications are nearly equal with face-to-face interactions, integration of the two is unique, fun, and engaging on multiple social levels. This app will allow people to create pub crawl style routes for whatever their vice may be – coffee, comics, you name it! – and share their experience and path with friends. Advertising could be implemented as suggested destinations, providing a nice route for monetization of the application.

Please remember:

In order to minimize backtracking, the app should calculate routes by priority. Length of the path is prioritized after eliminating backtracking. For example - if a path is longer, but doesn’t require backtracking, it takes precedence over a path that backtracks and is shorter. However, the app will still try to find the shortest distance after eliminating backtracks. This makes sure that the path is easier to follow while only adding a minimal amount of distance*.*

**Guiding principles:**

* Shorter distances are better than longer ones.
* Backtracking is should be avoided if possible.
* If possible, find an already existing solution, adapt it to our needs, and make it as efficient as possible.
* Remember, have fun.
* The more organized the code, the easier it will be to understand.
* Keep documentation precise and in one sentence if possible.

**Project Priorities:**

The highest priority is the generation of a crawl map. Social aspects such as saving routes and providing sharable links can come after V0.

**GOAL:**

To create a route between a series of user provided addresses in as little time as possible by minimizing processing time and resources used.

**Objectives and Success Criteria**

The app is successful if a crawl can be generated allowing fun to be had for all users!