**Team 24 Project Plan**

SFWRENG 2XB3

February 11, 2018

Hareem Arif, Kanak Choudhri, Ian Currie, Ibrahim Malik

Project Topic:

Project Name: Park This Car

Abstract:

Every year, a higher percentage of the world’s population lives in cities. Cities offer many advantages over living elsewhere, however, due to the dense construction, it is often a challenge to find parking when in a city. Park This Car aims to make the task of finding parking in a city by providing users with the location of the closest available parking spots to their desired location. Park This Car will take advantage of datasets provided by the city of Seattle to accomplish this. Two datasets will be used to determine the available parking spots in the city; a third dataset which graphs the streets and intersections of Seattle will be used to accurately find the closest parking spot based on estimated driving time. Creating Park This Car can be a good first step towards improving the efficiency of cities such that they might be even more helpful for society in the future than they already are.

Project Objectives:

This project will help prospective travelers and citizens identify potential roadside parking spaces available within a certain city. They will be able to see the total available parking spots in that area along with any street signs or parking regulations pertaining to that zone. The project will work to allow the user to have a good idea of what each sign says, and any fees, or hours which make a difference to the availability of the parking spot. The project will work by finding a few parking spots which are within a given radius of the required location using the latitude and longitude coordinates of the desired location; those parking spots will then be filtered further and sorted based on the distance which is calculated from the street graphing dataset.

Project Timeline

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Deliverables** | **Date** |
| Setup Project | Github Repo, Milestone 1  (Roles, Timeline) | Feb 11 |
| Finalized requirements | Requirements documents generated (**Ibrahim & Hareem**), Client Research Completed(**Ibrahim**), Initial Technology Research Completed(**Ian**), UML Diagram(Ibrahim & Hareem), Programming starts (Kanak) | Feb 25 |
| Project Checkup | First draft done with testing | March 7 |
| Testing Round 2 | Second draft complete, improvements off of first draft, front end completed, testing will also be completed here. | March 14 |
| Final code | Any final updates which need to be completed should be finished by here. | March 25 |
| Project Presentation slides | Slides prepared, and presentation practiced by here. | March 30 |
| Complete report | Report has been completed individually, editing is started. | April 7 |
| Final edits | Final report and code finished ready for submission. | April 9 |

Team Roles:

Project Leader - **Ian**

* General Manager of project
* Responsible for managing deadlines
* Reports to group decisions

Minute Admin - **Hareem**

* Takes minutes during meetings
* Records progress
* Reports to Project Leader

Lead Programmer - **Kanak**

* Decides fair division of programming roles
  + Modules
  + Testing
* Reports to Project Leader

Market/Client Researcher -  **Ibrahim**

* Conducts research on needs of clients
* Prepares information early into the project
* Can outsource work to other group members if necessary

Lead Designer - **Hareem, Ibrahim**

* Leads the designing of module layout for the project
* Prepares information early in the project
* Should outsource work to other group members fairly
* Reports to Lead Programmer?

Technology Researcher - **Ian**

* Conducts research on the available technology for the project
* Eg. Available libraries or API for use in the project

Tester - **Kanak**

* Responsible for testing of the project code
* Integral part in programming process
* Reports to Lead Programmer

Log Admin – **Ian**