**Lab #1**

Due date: 2/6

/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

Team name: Raging Piledrivers Contact email: austingym@gmail.com

Team members: Austin, Daniel, Curtis, Mario

/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

***Note****: you have to assume that every member of your team is responsible for all the relevant project activities, such as requirements gathering and analysis, design and architecture, coding, testing, management, etc. Each team should figure out how to equally distribute the work over each member in order to complete the project efficiently without giving all the work to one or two members.*

----------------------------------------------------------------------------------------------------------------------------

Complete the following tasks and turn in a printed copy describing the outcomes of your tasks.

1. Write your team’s project title, brief project description including major goals (from a business perspective), key features, and the usefulness (or benefits) of the system.
2. List the programming language(s) for implementation.
3. List the operating system platform(s) to use.
4. List all the tools, frameworks, or systems needed to complete your project.
5. In this class, we will all use Scrum Agile process. List the framework activities and engineering actions for each framework activity.
6. Give your team’s process operation plan (strategies to successfully implement the process) defining the roles, policies, expected activities, an initial iteration plan including number of iterations, duration of iteration.

----------------------------------------------------------------------------------------------------------------------------

*Note that as specified in the syllabus, work results of this assignment must be typed and checked for English. Likewise, diagrams must be drawn using a software tool. Scanned images of hand-drawn diagrams except for pre-approved special cases, are NOT acceptable.*

/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

1. Project information
   1. Project title: TripCost
   2. Project description: TripCost is a calculator capable of providing crucial cost information to the user about their car trip. Current tools available today offer directions, current gas prices, and vehicle information. The goal for this project is to combine these online tools together as a single entity to calculate the ultimate cost for a user’s trip. Combining the distance of the trip, using the vehicle’s government rated MPG, and current gas station prices for a given location will enable the user to get a better idea if driving is really the best and most cost effective option.
   3. Major Goals:
   4. Key Features:
   5. Usefulness of the System:
2. Programming languages: Python 2.7.5
3. Operating system: Mac OSX/Windows for development | Heroku GNU/Linux EC-2 instance
4. Tools, frameworks, and systems: Python Flask 0.10, Google Directions API, FuelEconomy.gov Web Services, myGasFeed API