**Description :**

This document refers to install and run a web based application which is designed as an assignment for Deloitte. This application is not based on the exact idea which was given in the assignment due to lack of exact data but still I made this application for a sample data to show the skills.

**Motive :**

In this application, I am taking data for two years (**2013/2016**), two different industry (**Automobile/High Tech**) and their multiple brands. I am trying to show how brands are **performing** across industries and years. The performance criteria for the brands are **4 four different attributes** such as **Brand Strength, Customer Satisfaction, Reliability, Popularity.** I am taking dummy ratings (1 - 10) of brands for these listed attributes and try to show the trend for across year and industry.

**How to run the application:**

To run this web based application, one needs to following packages in his/her local system. As it is a python based application so following are the backend packages and their related commands to install.

**Back-end Packages**:

The following packages need to be installed,

1. Anaconda for Python 2.7 - <https://www.continuum.io/downloads>
2. Tornado web server package **pip install tornado**

**Front-end Packages**:

To maintain front-end dependencies, I am using bower. Bower in a web package manager for front-end

Dependencies.

1. Bower - <https://bower.io/>
2. **Front-end dependencies** such as **CSS** and **JS** libraries are maintained using Bower.
3. To install all the dependencies run **bower install** after going into a directory named as **static**
4. This will create a bower\_components directory which will have all the front-end dependencies.

**NOTE** : In the application, , **d3-tip** is used for **d3 v3.5**. The same version should be chosen during the installation of d3-tip through bower.

**Files and Directories**:

**Files:**

* **Index.html**: Index page of the application.
* **index.py**: contains code to start the web server.
* **custom\_handlers.py**: contains code which operates on the data based on the requests and the arguments passed through client request.

**Directories**:

* **Static**
  + **css**: contains **style.css** to style the web page.
  + **js**: contains **js files** which deals with DOM elements & take care for server interactions.
  + **images** : contains loader image.
* data
  + Contains the sample data file **deloitte.csv** which in the application.

Steps to proceed,

1. Please unzip the directory attached with the mail.
2. Go to **static** directory, run **bower install (will install all the dependencies).**
3. Run, **python index.py.** It will start a server which can be accessed from **localhost:8888** from the browser.

Please let me know if any difficulty you find in understanding any single point.