**Project Name: COVID19atCharlotte**

1. List the source of and describe at least 1 potential data set (**8 total points)**

There are various potential data sets my group could use for the projects such as:

- World Bank Open Data: this is considered the large data set that provides access to many other data sets

- WHO’s Open Data: this is considered the largest data sets relating to human health and death quantities.

- US Census Bureau: this is the largest statistic data source in the United States that stores and provides reliable facts about the people, places, and economy of America

  One data set I would use is up-to-date COVID-19 confirmed and dead cases that happened in Charlotte as a continuous warning for all Charlotte people to stay aware of illnesses regardless of the improvement of technology and health care system.

* Source: [WHO (World Health Organization) — Open data repository](https://www.who.int/data/gho/)
* Potential Data Sets: <https://covid19.who.int/data>

2. Identify who your customer/s would be **(8 total points)**

Charlotte people from little kids in elementary school to the student in the universities/colleges; experts who are interested in researching COVID-19 virus and its damage to Charlotte communities; from normal people with ordinary work to doctors/nurses who work on the front-end of human protection against fatal infectious illnesses such as SARS or COVID-19 and its variant forms.

3. Describe the problem that the proposed project solves and justify its need **(10 total points)**

As a web-based project, it will use Open Data Set to show the data of COVID 19 confirmed and death cases that happened and updated regularly at Charlotte particularly. Based on the data given from a reputable source, we could build a website that allows users to browse the site to see information relating to COVID-19, search for knowing the Corona data visualization at a specific area within Charlotte, or the entire Charlotte for a larger vision. Also, the site allows the users to view the up-to-date COVID-19 information via multiple representative charts such as bar charts, line charts, heat maps, etc., as well as filtering the content according to users’ desires.

4. State the product vision and how your web-based project would be useful to society (8 points)

FOR all residents at Charlotte WHO need to have a more profound and clearer about COVID-19 and its damage to Charlotte residents based on up-to-date data set. COVID19atCharlotte is an internet website THAT provides customers access to available COVID-19 data sets at Charlotte and their representing visualizations depend on the user's needs or desires. UNLIKE other websites or software products, COVID19atCharlotte products are differentiated by providing trustworthy open sources and data sets from reputable organizations, as well as free, easily accessible, and great various visual maps corresponding to the information. OUR PRODUCT is a primary worthy social software tool that addresses people’s queries about COVID-19 and its deadly results in Charlotte, North Carolina.

5. Identify the major features of each of the proposed projects **(12 total points)**

- Navigation Menu

- HTML, CSS and JS for a functioning website

- Home page, Visualization Page, Resources Page

- Filter tab correctly functions

- Embedded Data and Visualization using Python and learned skills from ITSC 3155 Class

- Improve the visualization with appropriate package installations

- Accessible for every user as open-source website.