**Project Title:** COVID-19 Interactive Dashboard

**Team members:** Ashish Karki, Guillermo Huertas, Henry Randall, John Costa, and Michael Cary

**Project description/rationale:**

COVID-19 is a global health crisis. Currently there are more than 2 million cases and nearly 119 thousand deaths across the US. These numbers are tragic and rapidly changing each day. As a result, we are flooded with all sorts of COVID-19 related information, often presented as static tables and maps. For many users, this can be frustrating as many tables and maps do not show the rate of COVID-19 spread in the US. New ways of visualizing COVID-19 data are needed to shed light on these specific facets of the epidemic.

For project 2, our team proposes to build an interactive COVID-19 Interactive Dashboard, which tracks, analyzes, monitors, and visually displays key metrics while allowing users to interact with data, enabling them to make well-informed, data-driven, and healthy decisions.

**Project aim (s):**

Create an interactive dashboard that includes several different visualizations of COVID-19 data including:

* Maps
* Graphics
* Tables
* Charts

For each visualization, users will be able to view COVID-19 data (cases, deaths, and the dates when stay at home orders were implemented and lifted) at the national and state levels.

**Data sources:**

Our project will use the following sources of data:

* US Census
* CMS Hospital Compare
* Johns Hopkins COVID-19 Resource Center
* Financial Industry Regulatory Authority (FINRA)
* Mapbox

**Breakdown of project tasks and team member responsibilities:**

1. Created the slack channel for the team (Guillermo)
2. Create the project on GitHub and invite team members (Henry)
3. Identifying the datasets and outline the project (All)
4. Connect to remote Heroku database using postgres (Henry)
5. Data coding using Python (Henry and MC)
   1. Read in data
   2. Clean data
   3. Host data on Heroku database/postgres server
6. Design HTML/CSS code for dashboard webpage (Ashish Karki, Guillermo Huertas, John Costa)
7. Create visualizations using leaflet and Javascript library (e.g., Node) to be presented on dashboard webpage (Ashish Karki, Guillermo Huertas, John Costa, MC)
8. Create flask application needed to host on Heroku and invite team members (All)
9. Develop ideas/thoughts on “guided tour” of webpage (All)
10. Present 10 minute project on Saturday, July 11/Submit Github and Heroku links