SI 206 Final Project Plan

a. What is your group's name?

Seniors

b. Who are the people in the group (first name, last name, umich email)?

- Nikola Bogoevich, nikobogo@umich.edu
- Stephen Liu, sliliu@umich.edu

c. What APIs/websites will you be gathering data from? The base URLs for the APIs/websites must be different for them to count as different APIs.

College Football API: https://collegefootballdata.com/

Weather API: https://weatherstack.com/?utm_source=Github&utm_medium=Referral&utm_campaign=Public-apis-repo-Best-sellers

d. What data will you collect from each API/website and store in a database? Be specific.

Weather: temperature, total snow, wind_chill, wind_speed

Football: Michigan: total points per game, QB's and RB's see their percentage of running and passing, completion percentage

e. What data will you be calculating from the data in the database? Be specific.

1) QB's percentage of throwing and RB's percentage of running based on wind speed
2) Total points based on temperature
3) Completion percentage based on the amount of snow
4) Throwing completion percentage based on wind_chill

f. What visualization package will you be using (Matplotlib, Plotly, Seaborn, etc)?

Matplotlib

g. What graphs/charts will you be creating?

1) Scatter Plot with trend lines or Bar Chart
2) Box Plot
3) Line Plot
4) Box Plot

h. Who is responsible for what? Please note that all team members should do an equal amount of programming and total work.

Niko: Collecting College Football API data
Stephen: Collecting Weather API data
Together: Do the statistical analysis