**Project Proposal**

Using the “World Happiness Report” dataset, we will be analysing the relationship between the perceived happiness of a country’s citizens, the country’s GDP, and the average life expectancy.

* The dataset is in five separate .csv files, which we will clean using pandas to drop irrelevant columns and rename in preparation for a database merge.
* We will then create SQLite database and create a table to hold the data, which we will query using our Python Flask API.
* The plots that we will use to represent the data are “Choropleth Polygon Map”, “Bubble Plot”, “XXX”.
* The Choropleth map will use a separate dataset, which will be the average of all five years data
* The plots will be changed using the selector to change the year
* The dataset will be changed by selecting the XXX from the dropdown selector, which will update all plots with the new data.
* We will be using the JavaScript Library **“FusionCharts Suite XT”** for our 3D bar chart to meet the requirement to use an unknown library for the project

**Choropleth Polygon Map**

* The Choropleth map will use a separate dataset, which will be the average of all five years data
* The plots will be changed using the selector to change the year
* The dataset will be changed by selecting the XXX from the dropdown selector, which will update all plots with the new data.

**Bubble Plot**

Each Bubble = Region  
Size of Bubble = Happiness Score  
X Values = GDP per Capita  
Y Values = Lifetime Expectancy  
Hover Text = Region and Happiness Score

Selector = Year

**3D Bar Plot**  
X Values = Year  
Y Values = Happiness Score  
Hover Text = Region and Happiness Score

Selector = Region