Product Name: Data Visualization

Team Name: Visualizing Climate Change

Date: June 13, 2019

Note: This document contains a list of user stories and their corresponding scenarios that provide "coverage" for them. The unit tests are included in a separate 'Testing.md' document (as specified by the template on piazza)

----- Sprint 1 | User Story 1 -----

User Story: As a developer I want to reorganize the website src folder so it's easier to navigate add more files
Scenario: As a developer user story, this does not have a full scenario. Coverage is implied through the repository

----- Sprint 1 | User Story 2 -----

User Story: As a developer I want to homogenize all visuals so they maintain consistency
Scenario: As a developer user story, this does not have a full scenario. Coverage is implied as the visuals are integrated on the same website

----- Sprint 1 | User Story 3 -----

User Story: As a user I want to be able to see all information for each data type on the same webpage
Scenario: As a developer this isn't a full scenario since our project is a website with separate pages for each topic

----- Sprint 1 | User Story 4 -----

User Story: As a developer we need data to generate prediction climate change visuals
Scenario: As a developer user story, this does not have a full scenario since our visuals require the datasets

----- Sprint 1 | User Story 5 -----

User Story: As a product-owner I want to create a recognizable identity for our team
Scenario: As a developer user story, this does not have a full scenario since it's part of project requirements

----- Sprint 1 | User Story 6 -----

User Story: As a developer I want to debug edge-cases issues with visualizations
Scenario: As a developer user story, this does not have a full scenario since it's decided by subjective appraisal

----- Sprint 2 | User Story 1 -----

User Story: As a user, I want to be able to adjust the CO2 and temperature visualizations to view the difference between the years, so I can better see how the countries' temperature changed over time.

Scenario:

Scenario 1, Temperature:

1. Enter a year from 1901 to 2014 in search box
2. Enter a second year from 1901 to 2014 more recent than the previously entered year
3. View the comparison between the years

Scenario 2, Carbon Dioxide:

1. Press the compare button in the carbon dioxide visual
2. Enter two years from 1960 to 2050 separated by a comma
3. View the comparison and difference between the two years

Scenario 3, Energy:

1. Press the compare button in the energy visual
2. Enter a year in the first search box
3. Enter a year in the second search box
4. View the comparison between the two

Scenario 4, Choropleth:

1. Use compare button
2. Enter the year to compare
3. Or use the slider

----- Sprint 2 | User Story 2 -----

User Story: As a user, I want to see web pages that visually appealing and relevant to climate change, so I want to stay and explore.

Scenario: As a developer this coverage is implied as this is subjective appraisal

----- Sprint 2 | User Story 3 -----

User Story: As a user, I want to see nice bug free and improved visuals.

Scenario: As a developer this isn't a full scenario as this is subjective appraisal

----- Sprint 2 | User Story 4 -----

User Story: As a developer, I want to parse and generate prediction visuals from prediction data.

Scenario: Incomplete. Only Carbon Dioxide bubble chart and Sea level have predictive data. Temperature and energy don't have predictive data integrated.

----- Sprint 2 | User Story 5 -----

User Story: As a developer, I want to synchronize visuals to use the same slider

Scenario: Incomplete. The visuals don't share the same sliders with choropleths. They work fine separately.

----- Sprint 2 | User Story 6 -----

User Story: As a developer, I want to integrate co2 bubbles onto the choropleth
Scenario: Incomplete. Carbon dioxide isn't synchronized with the choropleth visuals

----- Sprint 3 | User Story 1 -----

User Story: As a user, I want to be able to view top 5/bottom 5 values based on both total amounts as well as percentile amounts.
Scenario:

Top 5 and bottom 5 values are displayed for the energy, CO2, and choropleth visuals.
Temperature is not needed because the visual is not suited for it
Incomplete SeaLevel Top5/bottom5

----- Sprint 3 | User Story 2 -----

User Story: As a Developer, I want to move all visual elements & associated features to a single SVG
Scenario:

All visual elements and features are in a single SVG.
Input elements, tables, and text in inside energy, temperature, choropleths, and CO2

----- Sprint 3 | User Story 3 -----

User Story: As a user, I want to see a legend to understand scaling for each visual
Scenario:

Legends are fully implemented onto the choropleths, CO2, temperature as needed.

----- Sprint 3 | User Story 4 -----

User Story: As a user, I want to see web pages that visually appealing and relevant to climate change, so that I want to stay and explore.
Scenario: As a developer this coverage is implied as this is subjective appraisal

----- Sprint 3 | User Story 5 -----

User Story: As a user, I want to see prediction data to understand where global warming is headed
Scenario:

Prediction data is implemented for CO2 and Sea Level only. You can see that by looking at the years past our current year.

----- Sprint 3 | User Story 6 -----

User Story: As a user, I want to see matching header data tracking for each visual
Scenario:

----- Sprint 4 | User Story 1 -----

User Story: As a user, I want the text to convey good meaning through interaction with the visual
Scenario:

All visuals have meaningful text accompanying the visuals and it tells us the importance of the subject and the urgency to act now.

----- Sprint 4 | User Story 2 -----

User Story: As a user, I want to be able to compare data easily throughout the years
Scenario:

All visuals have comparison across years
EX: CO2 choropleth maps displays the comparison across years in color:
Red represents more emissions while green represents less

----- Sprint 4 | User Story 3 -----

User Story: As a user, I want to see a visually appealing website with clean looking text and html elements
Scenario:

As a developer this coverage is implied as this is subjective appraisal

----- Sprint 4 | User Story 4 -----

User Story: As a developer, we want the website to be as bug free as possible
Scenario:

Went through the entire website and record all bugs encounters
Found Css bugs and some text were not displaying properly

----- Sprint 4 | User Story 5 -----

User Story: As a developer, I want to organize our repository and our code because it prepares future members to work on our project.
Scenario:

Document all code and make our repository structurally appealing