<u>Team: CSAST</u>

Features to implement in next sprint:

- **US Data:**
  - **Feature 1:** as a user, I want to search for the number of COVID-19 confirmed cases for an existing US county, state and day
  - **Feature 2:** as a user, I want to search for the number of COVID-19 deaths for an existing US county, state and day
  - **Feature 3:** as a user, I want to search for the number of COVID-19 recovered cases for an existing US county, state and day

- **World Data:**
  - **Feature 4:** as a user, I want to search for the number of COVID-19 confirmed cases for any country for any particular day
  - **Feature 5:** as a user, I want to search for the number of COVID-19 confirmed cases for any countries, states, or provinces for any particular day
  - **Feature 6:** as a user, I want to search for the number of COVID-19 deaths for any country for any particular day
  - **Feature 7:** as a user, I want to search for the number of COVID-19 deaths for any countries states or provinces for any particular day
  - **Feature 8:** as a user, I want to search for the number of COVID-19 recovered cases for any country for any particular day
  - **Feature 9:** as a user, I want to search for the number of COVID-19 recovered cases for any countries states or provinces for any particular day

GUI Design:

Covid-19 Information

What would you like to know?

Country: _____
    (optional) State / Province/County: _____
Date: __ / __ /____ (MM/DD/YYYY)

Select at least one statistic:
    Confirmed cases ☐
    Deaths ☐
    Recoveries ☐

Search

Results:
    In <u>country/state/province</u> , on <u>date</u> there were # [selected statistics]

GUI Features
- If "Search" is selected without mandatory specs
  - Next to search: *Error: one or more mandatory categories are not filled
  - Next to unfilled categories: *Required
- Checkboxes fill upon click, if clicked again they are unchecked
- Enforces specific formatting for date entry
  - MM/DD/YYYY
  - If formatting is not followed: *Must be in format MM/DD/YYYY

Test Cases:

- **Feature 1 Test Cases:** as a user, I want to search for the number of COVID-19 confirmed cases for an existing US county, state and day
  - **Test case 1**: as a user, I want to be able to put the name of a country, state, day and a particular day and select "confirmed cases"
    <u>Expected Output:</u> The website displays a table of the number of confirmed COVID-19 cases for the searched country, state, county on a particular day.
  - **Test case 2**: as a user, I want to be able to change the county, state and/or day without changing the country and select "confirmed cases"
    <u>Expected Output:</u> The website displays a table of the number of confirmed COVID-19 cases for all of the new searched countries states, country, state and day on a particular day.
  - **Test case 3:** as a user, I want to be able to change the day without changing the country, county, and state and select "confirmed cases".
    <u>Expected Output:</u> The website displays a table of the number of confirmed COVID-19 cases for all of the country, country, on a particular day.
  - **Test case 4:** If country/day field is blank, then prompt the user to enter the field
    <u>Expected Output:</u> Don't display any data, wait for response.

- **Feature 2 Test Cases:** as a user, I want to search for the number of COVID-19 deaths for an existing US county, state and day

- ○ **Test case 1**: as a user, I want to be able to put the name of a country, state, day and a particular day and select "deaths"
  Expected Output: The website displays a table of the number of confirmed COVID-19 deaths for the searched country, state, county on a particular day.
- ○ **Test case 2**: as a user, I want to be able to change the county, state and/or day without changing the country and select "deaths"
  Expected Output: The website displays a table of the number of confirmed COVID-19 deaths for all of the new searched countries states, country, state and day on a particular day.
- ○ **Test case 3:** as a user, I want to be able to change the day without changing the country, county, and state and select "deaths".
  Expected Output: The website displays a table of the number of COVID-19 deaths for all of the country, country, on a particular day.
- ○ **Test case 4:** If country/day field is blank, then prompt the user to enter the field
  Expected Output: Don't display any data, wait for response.

- ● **Feature 3 Test Cases:** as a user, I want to search for the number of COVID-19 recovered cases for an existing US county, state and day
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country, state, day and a particular day and select "recoveries"
    Expected Output: The website displays a table of the number of confirmed COVID-19 recoveries for the searched country, state, county on a particular day.
  - ○ **Test case 2**: as a user, I want to be able to change the county, state and/or day without changing the country and select "recoveries"
    Expected Output: The website displays a table of the number of confirmed COVID-19 recoveries for all of the new searched countries states, country, state and day on a particular day.
  - ○ **Test case 3:** as a user, I want to be able to change the day without changing the country, county, and state and select "recoveries".
    Expected Output: The website displays a table of the number of confirmed COVID-19 recoveries for all of the country, country, on a particular day.
  - ○ **Test case 4:** If country/day field is blank, then prompt the user to enter the field
    Expected Output: Don't display any data, wait for response.

- ● **Feature 4 Test Cases**: as a user, I want to search for the number of COVID-19 confirmed cases for any country for any particular day.
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country and a particular day and select "confirmed cases"
    Expected Output: The website displays a table of the number of confirmed COVID-19 cases for all of the searched countries states on a particular day.
  - ○ **Test case 2**: as a user, I want to be able to change the country without changing the day and select "confirmed cases"
    Expected Output: The website displays a table of the number of confirmed COVID-19 cases for all of the new searched countries states on a particular day.

- ○ **Test case 3:** as a user, I want to be able to change the day without changing the country and select "confirmed cases".
  Expected Output: The website displays a table of the number of confirmed COVID-19 cases for all of the new searched countries states on a particular day.
- ○ **Test case 4:** If any required field is blank, then prompt the user to enter the field
  Expected Output: Don't display any data, wait for response.

- ● **Feature 5 Test Cases:** as a user, I want to search for the number of COVID-19 confirmed cases for any countries, states, or provinces for any particular day
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country, a state/province/county, and a particular day and select "confirmed cases"
    Expected Output: The website displays the result of the specific search point (should only be one entry)
  - ○ **Test case 2**: as a user, I want to be able to change the name of a country, a state/province/county, and a particular day while leaving the rest the same and select "confirmed cases"
    Expected Output: The website displays the result of the specific search point (should only be one entry)
  - ○ **Test case 3**: If any required field is blank, then prompt the user to enter the field
    Expected Output: Don't display any data, wait for response.

- ● **Feature 6 Test Cases:** as a user, I want to search for the number of COVID-19 deaths for any country for any particular day
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country and a particular day and select "deaths"
    Expected Output: The website displays a table of the number of COVID-19 deaths for all of the searched countries states on a particular day.
  - ○ **Test case 2**: as a user, I want to be able to change the country without changing the day and select "deaths"
    Expected Output: The website displays a table of the number of COVID-19 deaths for all of the new searched countries states on a particular day.
  - ○ **Test case 3:** as a user, I want to be able to change the day without changing the country and select "deaths".
    Expected Output: The website displays a table of the number of COVID-19 deaths for all of the new searched countries states on a particular day.
  - ○ **Test case 4:** If any required field is blank, then prompt the user to enter the field
    Expected Output: Don't display any data, wait for response.
- ● **Feature 7 Test Cases:** as a user, I want to search for the number of COVID-19 deaths for any countries states or provinces for any particular day
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country, a state/province/county, and a particular day and select "deaths"
    Expected Output: The website displays the result of the specific search point (should only be one entry)

- ○ **Test case 2**: as a user, I want to be able to change the name of a country, a state/province/county, and a particular day while leaving the rest the same and select "deaths"
  Expected Output: The website displays the result of the specific search point (should only be one entry)
- ○ **Test case 3**: If any required field is blank, then prompt the user to enter the field
  Expected Output: Don't display any data, wait for response.
- **Feature 8 Test Cases:** as a user, I want to search for the number of COVID-19 recovered cases for any country for any particular day
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country and a particular day and select "recovered cases"
    Expected Output: The website displays a table of the number of confirmed COVID-19 cases for all of the searched countries states on a particular day.
  - ○ **Test case 2**: as a user, I want to be able to change the country without changing the day and select "recovered cases"
    Expected Output: The website displays a table of the number of confirmed COVID-19 cases for all of the new searched countries states on a particular day.
  - ○ **Test case 3:** as a user, I want to be able to change the day without changing the country and select "recovered cases".
    Expected Output: The website displays a table of the number of confirmed COVID-19 cases for all of the new searched countries states on a particular day.
  - ○ **Test case 4:** If any required field is blank, then prompt the user to enter the field
    Expected Output: Don't display any data, wait for response.
- **Feature 9 Test Cases:** as a user, I want to search for the number of COVID-19 recovered cases for any countries states or provinces for any particular day
  - ○ **Test case 1**: as a user, I want to be able to put the name of a country, a state/province/county, and a particular day and select "recovered cases"
    Expected Output: The website displays the result of the specific search point (should only be one entry)
  - ○ **Test case 2**: as a user, I want to be able to change the name of a country, a state/province/county, and a particular day while leaving the rest the same and select "recovered cases"
    Expected Output: The website displays the result of the specific search point (should only be one entry)
  - ○ **Test case 3**: If any required field is blank, then prompt the user to enter the field
    Expected Output: Don't display any data, wait for response.

Taskboard:

Done last sprint:
- Implement "Hello World" Client server
  - Done by everyone
- Screen record demo
  - Caleb

<u>To-Do next sprint:</u>

Front-End
- Design basic structure to look like our GUI drafted above (Sabrina)
- Include text-entry inputs for Country, Date (Alex)
    - Send text entry input to backend
- Include reactive checkboxes (Alex)
    - Send the selected checkbox information to backend to know which data to get
- Throw errors when: (Steven)
    - Mandatory information is not specified (date, country, desired information)
    - Location is invalid (Typo/ location not in data)
    - Date is invalid (before data time period, invalid format)
- Result display (Steven)
    - Reiterate user-inputted information
    - Return information gathered from backend
    - Displayed information as a table

Back-end
- Parse CSV files and make objects for data points (Thomas)
    - Store objects in a list
    - Objects have date, country, state/province, and deaths/recovered/confirmed
- Implement forward search on the list (Caleb)
- End result should be in a table format with specified columns (JSON). (Caleb)
- Receive requests from the front-end and read them Caleb)