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## Lab 3 - It's Corona Time

### Features (fields of interests to search) to Implement in Next Sprint:

- **World Data: (COVID-19.csv)**
  - **Feature 1:** as a user, I want to know the # of cases in the US vs. a different country at a certain time
  - **Feature 2:** as a user, I want to know if more people are going grocery shopping now vs. before the pandemic hit
  - **Feature 3:** as a user, As a user, I want to know if more people are spending time outdoors vs. before the pandemic hit
  - **Feature 4:** as a user, I want to know how COVID has affected the human development index in various countries.
  - **Feature 5:** as a user, I want to know how the US is doing now vs. before the pandemic hit
  - **Feature 6:** as a user, I want to know how many companies are adapting to the pandemic (wfh rate and going to the workplace rate)
  - **Feature 7:** as an observant user, I want to see which nations are severely negatively affected in terms of public transportation and mobility for work to see if driveshare businesses can establish operations there.
  - **Feature 8:** as a user, I want to see whether higher numbers of testing stalled the number of growing confirmed cases.

### GUI design:

The image displays four GUI design sketches for a COVID-19 data search interface, arranged in a 2x2 grid. Each sketch shows a search form with a 'GO' button and a '+' icon below it.

- Sketch 1:** A single search form with three input fields: 'Country' (dropdown), 'MM/DD to MM/DD' (date range), and 'What trend do you want to observe?' (dropdown). The 'GO' button is green.
- Sketch 2:** A search form with three input fields: 'Country' (dropdown), '04/14 to 04/20' (date range), and 'Mobility trends in...' (dropdown). The 'GO' button is green. Below the form, a list of options is shown: 'USA', 'UAE', 'AUS' for the country field; and 'parks', 'restaurants', 'workplaces' for the mobility trends field.
- Sketch 3:** A search form with three input fields: 'USA' (dropdown), '04/14 to 04/20' (date range), and 'parks' (dropdown). The 'GO' button is green.
- Sketch 4:** A search form with three input fields: 'USA' (dropdown), '04/14 to 04/20' (date range), and 'parks' (dropdown). The 'GO' button is green.

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### User test cases:

- **Feature 1 Test Cases:** as a user, I want to know the # of cases in the US vs. a different country at a certain time
  - **Test Case 1:** as a user, in the data page, I first search for analytics by inputting the first country as the US and any other country I want to compare, the dates I want to see, and selecting “confirmed cases”
    - Correct Output: The website displays a table with existing records for the inputs provided.
  - **Test Case 2:** as a user, I select the confirmed cases button and click ascending order or descending order.
    - Correct Output: The website displays a table of confirmed cases in ascending or descending order on a specific date.
- **Feature 2 Test Cases:** as a user, I want to know if more people are going grocery shopping now vs. before the pandemic hit
  - **Test Case 1:** as a user, I select the grocery and pharmacy button to see the number of grocery shopping sales in a country during covid.
    - Correct Output: The website displays a table of data with grocery shopping data.
  - **Test Case 2:** as a user, I select the grocery and pharmacy button and click ascending order or descending order.
    - Correct Output: The website displays a table of grocery sales in ascending or descending order on a specific date.
  - **Test Case 3:** As a user, I select the grocery and pharmacy button along two different countries in the drop down menu and two different dates in the drop down menu.
    - Correct Output: The website displays a percentage number difference of the two different countries between the dates selected.
- **Feature 3 Test Cases:** as a user, As a user, I want to know if more people are spending time outdoors vs. before the pandemic hit
  - **Test Case 1:** as a user, I select the parks percent button to see the percentage of people in the park.
    - Correct Output: The website displays a data table of the park percentage.
  - **Test Case 2:** as a user, I select two different dates from the given dates for park percentage.
    - Correct Output: The website display yes or no (maybe with percentage also)
- **Feature 4 Test Cases:** as a user, I want to know how COVID has affected the human development index in various countries.
  - **Test Case 1:** as a user, in the data page, I first search for analytics by inputting two countries I want to compare, the dates I want to see, and selecting “human development index”
    - Correct Output: The website displays a table with existing records for the inputs provided.

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- **Test Case 2:** as a user, I select the human development index button and click ascending order or descending order.
    - Correct Output: The website displays a table of human development index in ascending or descending order on a specific date.
- **Feature 5 Test Cases:** as a user, I want to know how the US is doing now vs. before the pandemic hit
  - **Test Case 1:** As a user, I select the US from the drop down and click the search button to see all the data.
    - Correct Output: The website displays all data of the US.
  - **Test Case 2:** As a user, I select two different dates from the drop down menu to see for the US.
    - Correct Output: The website displays all data in the US on the two given dates.
- **Feature 6 Test Cases:** as a user, I want to know how many companies are adapting to the pandemic (wfh rate and going to the workplace rate)
  - **Test Case 1:** as a user, I select the workplaces percent button to see the percentage of people in workplaces.
    - Correct Output: The website displays a data table of the workplaces percentage.
  - **Test Case 2:** as a user, I select two different dates from the given dates for workplace percentage.
    - Correct Output: The website display yes or no (maybe with percentage also)
- **Feature 7 Test Cases:** as an observant user, I want to see whether a nation is severely negatively affected in terms of public transportation and mobility for work to see if a rideshare business can establish operations there.
  - **Test Case 1:** As an observant user, I will select a certain country that I know doesn't have driveshare operations in said nation.
    - Correct Output: The website will now have the name of the specified nation in the first column.
  - **Test Case 2:** As an observant user, I will then specify that I want to see the trend of public transportation by selecting the time column and selecting the earliest and latest dates available.
    - Correct Output: The dates column now displays a small calendar to select available dates.
  - **Test Case 3:** As an observant user, I select the desired dates.
    - Correct Output: The selected dates are shaded in the calendar. Once the end date is selected, the calendar disappears and the dates are written in the date column.
  - **Test Case 4:** As an observant user, I want to observe the trends of public transportation by making my selection in the third column.
    - Correct Output: Upon selecting the third column, a list of fields is displayed for the user to select from.
  - **Test Case 5:** As an observant user, I select the trend about public transportation.
    - Correct Output: Upon selecting the field of public transportation, the list disappears and the third column displays the connection.

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- **Test Case 6:** As an observant user, I want to compare two specific trends of the same country. So I add another selection to compare and fill it with the same fields as before with the main difference being wanting to look at the trends for mobility for work.
  - **Correct Output:** Upon pressing the “add” button, another country is listed below the current selection. The selections for this country will be the same as the one before, except the third column will be about workplaces instead.
- **Test Case 7:** As an observant user, I select go to observe any correlation between these two fields.
  - **Correct Output:** Upon selecting the green “go” button, the listings disappear and two columns representing the countries selected will cascade from the top. These columns will display the graphs representing what the user specified when he/she makes his selections.
- **Feature 8 Test Cases:** as a user, I want to see whether higher numbers of testing in a specific country stalled or skyrocketed the number of confirmed cases.
  - **Test Case 1:** As a user, I want to make two selections for the same country. So I select the add button to add a second selection.
    - **Correct Output:** The second selection should appear below the first. The “add” button is further lowered.
  - **Test Case 2:** As a user, I want to make two selections for the same country. So I select the first column of the first selection.
    - **Correct Output:** A list of countries appears below and overlaps the second selection..
  - **Test Case 3:** As a user, I want to make two selections for the same country. So I select the desired country.
    - **Correct Output:** The list disappears and the desired country’s name is shown in the first column of the first selection.
  - **Test Case 4:** As a user, I want to make two selections for the same country. So I select the first column of the first selection.
    - **Correct Output:** A list of countries appears below the first column and overlaps the second selection below.

## Taskboard:

Done list of last sprint:

- client can connect to server (i.e., send/receive dumb messages)
  - Umar suggests sticking with the tools used in the demo and focus on understanding them if we are unable to make progress with our proposed tools.
  - Umar is open to sending us some tutorials he sent to other teams.

To Do task list for the next sprint:

- Perform search operations

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- Basic front UI to use
- Implement a better way to connect the client to the server