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Lab 5 - It's Corona Time

Data Set (for bookmarking)

Features (analytics to implement) to Implement in Next Sprint:

- **World Data: (COVID-19.csv)**
 - **Feature 1:** as a user, I want to be able to see visualizations of the analytics.
 - **Feature 2:** as a user, I want to be able to see the change over time of various data.
 - **Feature 3:** as a user, I want to be able to see a comparison between different analytics.
 - **Feature 4:** as a user, I want to be able to see a comparison between ages getting the virus and dying.

GUI design:

The image displays four wireframe designs for a COVID-19 analytics application, labeled 1 through 4. Each design is a form with a dark background and white text and buttons.

- Design 1:** A single form with three dropdown menus: 'Country', 'MM/DD to MM/DD', and 'What trend do you want to observe?'. A green 'GO' button is to the right. A plus sign icon is below the form.
- Design 2:** A form with three dropdown menus: 'Country', '04/14 to 04/20', and 'Mobility trends in...'. The 'Country' dropdown is open, showing 'USA', 'UAE', and 'AUS'. The 'Mobility trends in...' dropdown is open, showing 'parks', 'restaurants', and 'workplaces'. A green 'GO' button is to the right. A plus sign icon is below the form.
- Design 3:** A form with three dropdown menus: 'USA', '04/14 to 04/20', and 'parks'. A green 'GO' button is to the right. A plus sign icon is below the form.
- Design 4:** A form with three dropdown menus: 'USA', '04/14 to 04/20', and 'parks'. A green 'GO' button is to the right. A plus sign icon is below the form.



User test cases:

- **Feature 1 Test Cases:** as a user, I want to be able to see visualizations of the analytics.
 - **Test Case 1:** As a user, I want to put in my search and have visual analytics show up.
 - Correct Output: A chart will show up when I search up a query.
 - **Test Case 2:** As a user, I want to be able to easily look at the visual analytics.
 - Correct Output: The charts will be very easy to read and user friendly.
- **Feature 2 Test Cases:** as a user, I want to be able to see the change over time of various data.
 - **Test Case 1:** As a user, I want to see the change from before Coronavirus and during Coronavirus.
 - Correct Output: A chart comparing the change of outings from before Coronavirus and during Coronavirus.
 - **Test Case 2:** As a user, I want to see the change from early on in Coronavirus and later on during Coronavirus.
 - Correct Output: A chart comparing the change of outings from early on in Coronavirus and later on during Coronavirus.
- **Feature 3 Test Cases:** as a user, I want to be able to see a comparison between different analytics.
 - **Test Case 1:** As a user, I want to be able to compare different outings to see the change over time.
 - Correct Output: A chart comparing two different outings (work vs. grocery shopping) to see the change over time.
 - **Test Case 2:** As a user, I want to be able to compare different different countries.
 - Correct Output: A chart comparing two different countries and how they compare will show up.
- **Feature 3 Test Cases:** as a user, I want to be able to see a comparison between ages getting the virus and dying.

- **Test Case 1:** As a user, I want to be able to see the age comparisons of people getting the virus.
 - Correct Output: A bar chart comparing the ages of people getting the virus.
- **Test Case 2:** As a user, I want to be able to see the age comparisons of people dying from the virus.
 - Correct Output: A bar chart comparing the ages of people dying from the virus.

Taskboard:

Done list of last sprint:

- Perform search operations (backend)/backend program to search for the data that is requested from the client side
 - Implemented by Enrique Munoz
- Basic front UI to use
 - Designed by Celyna Su
 - Implemented by Enrique Munoz
- Implement a better way to connect the client to the server
 - Implemented by Enrique Munoz
- Perform update/insert/delete operations
 - Implemented by Enrique Munoz
- Basic UI for insert/update/delete
 - Designed by Celyna Su
 - Implemented by Enrique Munoz

To Do task list for the next sprint:

- Perform analytics to implement
 - Jesse
 - Create function in covid.java to compare cases and deaths worldwide
 - Update .jsp.file for user to click on Cases vs deaths analytics
 - Update display.jsp for the user to see
 - Display graph with the data for the user.
 - Cristina
 - Create front end analytics to display to user
 - Backend analytics to display on front end
 - Luccas
 - Look into pop-ups displays to be able to return output.
 - Look into possible search list for column-to-column comparison