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## Lab 4 - It's Corona Time

### Features (fields to update/insert/delete) to Implement in Next Sprint:

- **World Data: (COVID-19.csv)**
  - **Feature 1:** as a user, I want to be able to update the number of confirmed COVID-19 cases for an existing country and day.
  - **Feature 2:** as a user, I want to be able to delete the number of confirmed COVID-19 cases for an existing country and day.
  - **Feature 3:** as a user, I want to be able to update the number of confirmed COVID-19 fatalities for a particular day in a country.
  - **Feature 4:** as a user, I want to be able to delete the number of confirmed COVID-19 fatalities for a particular day in a country.
  - **Feature 5:** as a user, I want to be able to update the number of COVID-19 tests for an existing country and day.
  - **Feature 6:** as a user, I want to be able to delete the number of COVID-19 tests for an existing country and day.
  - **Feature 7:** as a user, I want to be able to insert a new number for the GDP for a specific day.
  - **Feature 8:** as a user, I want to insert a completely new data entry.
  - **Feature 9:** as a user, I want to delete an entire row of data.

### GUI design:

The image displays four GUI design mockups for a COVID-19 data application, labeled 1, 2, 3, and 4. Each mockup shows a form with three main input fields: Country, Date Range, and Trend, followed by a GO button.

- Mockup 1:** Shows the initial form with dropdowns for Country, MM/DD to MM/DD, and 'What trend do you want to observe?'. A green GO button is on the right.
- Mockup 2:** Shows the form with a list of mobility trends (parks, restaurants, workplaces) under the 'Mobility trends in...' dropdown. The Country dropdown is expanded, showing USA, UAE, and AUS. A green GO button is on the right.
- Mockup 3:** Shows the form with USA selected for Country, 04/14 to 04/20 for Date Range, and parks for Trend. A green GO button is on the right.
- Mockup 4:** Shows the form with USA selected for Country, 04/14 to 04/20 for Date Range, and parks for Trend. A green GO button is on the right.

### User test cases:

- **Feature 1 Test Cases:** as a user, I want to be able to update the number of COVID-19 cases for an existing country and day.
  - **Test Case 1:** As a user, I first search the number of COVID-19 cases by country and date.
    - Correct Output: The search results of only COVID-19 cases in the country and data specified will be displayed to the user.
  - **Test Case 2:** As a user, I click on the update button after the data has been displayed.
    - Correct Output: All of the rows of data that is displayed to the user will have a delete and update button.
  - **Test Case 3:** As a user, I see a pop up window asking me to enter the data to be changed.
    - Correct Output: A pop up window will be displayed asking for the user to enter the new data.
  - **Test Case 4:** As a user, I click confirm to update the data.
    - Correct Output: The new data is updated in the CSV file and will show when searched again.
- **Feature 2 Test Cases:** as a user, I want to be able to delete the number of confirmed COVID-19 cases for an existing country and day.
  - **Test Case 1:** As a user, I first search the number of COVID-19 cases by country and date.
    - Correct Output: The search results of only COVID-19 cases in the country and data specified will be displayed to the user.
  - **Test Case 2:** As a user, I click on the delete button after the data has been displayed.
    - Correct Output: All of the rows of data that is displayed to the user will have a delete and update button.
  - **Test Case 3:** As a user, I see a pop up window asking me to enter the data to be changed.
    - Correct Output: A pop up window will be displayed asking for the user to confirm.
  - **Test Case 4:** As a user, I click confirm to delete the data.
    - Correct Output: The specified data is deleted in the CSV file and will show when searched again.
- **Feature 3 Test Cases:** as a user, I want to be able to update the number of confirmed COVID-19 fatalities for a particular day in a country.
  - **Test Case 1:** As a user, I first search the number of COVID-19 fatalities by country and date.
    - Correct Output: The search results of only COVID-19 fatalities in the country and data specified will be displayed to the user.
  - **Test Case 2:** As a user, I click on the update button after the data has been displayed.
    - Correct Output: All of the rows of data that is displayed to the user will have a delete and update button.
  - **Test Case 3:** As a user, I see a pop up window asking me to enter the data to be changed.
    - Correct Output: A pop up window will be displayed asking for the user to enter the new data.
  - **Test Case 4:** As a user, I click confirm to update the data.

- Correct Output: The new data is updated in the CSV file and will show when searched again.
- **Feature 4 Test Cases:** as a user, I want to be able to delete the number of confirmed COVID-19 fatalities for a particular day in a country.
  - **Test Case 1:** As a user, I first search the number of COVID-19 fatalities by country and date.
    - Correct Output: The search results of only COVID-19 fatalities in the country and data specified will be displayed to the user.
  - **Test Case 2:** As a user, I click on the delete button after the data has been displayed.
    - Correct Output: All of the rows of data that is displayed to the user will have a delete and update button.
  - **Test Case 3:** As a user, I see a pop up window asking me to enter the data to be changed.
    - Correct Output: A pop up window will be displayed asking for the user to confirm.
  - **Test Case 4:** As a user, I click confirm to delete the data.
    - Correct Output: The specified data is deleted in the CSV file and will show when searched again.
- **Feature 5 Test Cases:** as a user, I want to be able to update the number of COVID-19 tests for an existing country and day.
  - **Test Case 1:** As a user, I first search the number of COVID-19 tests by country and date.
    - Correct Output: The search results of only COVID-19 tests in the country and data specified will be displayed to the user.
  - **Test Case 2:** As a user, I click on the update button after the data has been displayed.
    - Correct Output: All of the rows of data that is displayed to the user will have a delete and update button.
  - **Test Case 3:** As a user, I see a pop up window asking me to enter the data to be changed.
    - Correct Output: A pop up window will be displayed asking for the user to enter the new data.
  - **Test Case 4:** As a user, I click confirm to update the data.
    - Correct Output: The new data is updated in the CSV file and will show when searched again.
- **Feature 6 Test Cases:** as a user, I want to be able to delete the number of COVID-19 tests for an existing country and day.
  - **Test Case 1:** As a user, I first search the number of COVID-19 tests by country and date.
    - Correct Output: The search results of only COVID-19 tests in the country and data specified will be displayed to the user.
  - **Test Case 2:** As a user, I click on the delete button after the data has been displayed.
    - Correct Output: All of the rows of data that is displayed to the user will have a delete and update button.
  - **Test Case 3:** As a user, I see a pop up window asking me to enter the data to be changed.
    - Correct Output: A pop up window will be displayed asking for the user to confirm.
  - **Test Case 4:** As a user, I click confirm to delete the data.

- Correct Output: The specified data is deleted in the CSV file and will show when searched again.
- **Feature 7 Test Cases:** as a user, I want to be able to update the GDP for a specific day of a specific country.
  - **Test Case 1:** As a user, I first search the GDP for a specific country by its date.
    - Correct Output: Selecting the search button on the first entry, given the specified fields, will output the specified data.
  - **Test Case 2:** As a user, I then select the update button once the results are shown.
    - Correct Output: Next to this specified data should be an update and delete button.
  - **Test Case 3:** As a user, I then see a confirmation window popup asking me to confirm my new entry.
    - Correct Output: A pop-up window appears asking for the user to confirm his or her intentions.
  - **Test Case 4:** As a user, I click confirm to update the data.
    - Correct Output: The new GDP is now stored in the CSV file and is visible in the still-present results.
- **Feature 8 Test Cases:** as a user, I want to insert a completely new data entry.
  - **Test Case 1:** As a user, I select the insert button.
    - Correct Output: A popup window with places to insert each data parameter appears.
  - **Test Case 2:** As a user, I input my new data entry parameters and then press enter.
    - Correct Output: The new data entry is then added to the data. Certain required fields will be marked with a red asterisk (ie. country and day).
  - **Test Case 3:** As a user, I see a confirmation window pop up asking me to confirm this new entry.
    - Correct Output: A pop-up window appears asking the user to confirm his or her intentions.
  - **Test Case 4:** As a user, I confirm my intention to insert this new data entry.
    - Correct Output: The new data entry is stored in the CSV file and is displayed as a result.
- **Feature 9 Test Cases:** as a user, I want to delete an entire row of data.
  - **Test Case 1:** As a user, I first search up the data that I want to see.
    - Correct Output: Selecting the search button on the first entry, given the specified fields, will output the specified data.
  - **Test Case 2:** As a user, I click delete to delete a specific row of data.
    - Correct Output: A popup window to confirm appears.
  - **Test Case 3:** As a user, I click confirm.
    - Correct Output: The deleted row is now deleted from the data.

## Taskboard:

Done list of last sprint:

- Perform search operations
  - 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

To Do task list for the next sprint:

- Perform update/insert/delete operations
- Basic UI for insert/update/delete