

BBCDS Artifact LAB 7

Features:

1. 11/12 Sprint-5

- a. Implement support for the datatable to live reload upon insert/delete/update
- b. Implement incremental analytics for inserting data. Update the frontend by appending the data to the data array instead of refetching the updated dataset from backend
- c. Implement incremental analytics for deleting data. Update the frontend by deleting the specific data row in the data array instead of refetching the updated dataset from backend
- d. Implement incremental analytics for updating data. Update the frontend by overwriting the specific data row in the data array instead of refetching the whole updated dataset from backend
- e. Add support for parsing a new covid dataset into the same format as the current dataset
- f. Successfully merge the two datasets together for use throughout the api

Test Cases:

1. Insert data with the incremental analytics strategy implemented. And insert data without it.
 - a. Correct Output: The time needed for the datatable to reload with the inserted data should be less than before
2. Delete data with the incremental analytics strategy implemented. And insert data without it.
 - a. Correct Output: The time needed for the datatable to reload with the inserted data should be less than before
3. Update data with the incremental analytics strategy implemented. And insert data without it.
 - a. Correct Output: The time needed for the datatable to reload with the inserted data should be less than before
4. View the dataset in the analytics page. And the datatable in the admin page.
 - a. Correct Output: The dataset should contain 14.6k lines of data. Or also as 14.6k cases of covid.

Taskboard:

1. 12/5 Sprint Done List

- a. Sprint Artifact Planning
(*finished by Everyone*)
- b. Setup the analytics page

(finished by Shuang, Biqian, Dominic)

- c. Total up each column of data in the dataset and store them in the analytics page to be ready for display purposes.

(finished by Dominic)

- d. Display the totals and averages and organize them based on their relevance to each other. Also display this in an easily digestible way for users to read.

(finished by Shuang, Biqian, Dominic)

- e. Plug in the whole dataset into our existing charts and place them onto the analytics page.

(finished by Shuang)

- f. Add the location input field into the homepage search ui.

(finished by Biqian, Dominic)

- g. Pass the location input value to the backend

(finished by Biqian)

- h. Handle support for filtering by location on the backend

(finished by Dominic)

- i. Modify the data table so that each row is collapsible. When not collapsed it'll show the data present in the Summary column.

(finished by Chunho, Dominic)

- j. Fix bugs throughout the project

(finished by Biqian, Shuang, Dominic)

- k. Upload Demo video.

(finished by Biqian, Shuang)

2. 11/12 Sprint Todo List

- a. Sprint Artifact Planning
- b. Add incremental analytics strategy for inserting data
- c. Add incremental analytics strategy for deleting data
- d. Add incremental analytics strategy for updating data
- e. Add support for parsing a new covid dataset into the same format as the current dataset
- f. Successfully merge the two datasets together for use throughout the api
- g. Fix bugs throughout the project
- h. Upload Demo video.