BBCDS Artifact

Platform: Web App
Languages: Javascript, Typescript, HTML, CSS
Technologies:

- Next.js (Frontend)
- Node.js (Backend)
- Chart.js (Data Visualization)

Dataset:

Novel CoronaVirus 2019 Dataset (Link)

1. Number of cases confirmed by country, date.
2. Number of cases in the U.S. by state, date.
3. Number of deaths by country, date.
4. Number of deaths in the U.S. by state, date.
5. Number of recovered by country, date
6. All cases by location, age, gender, date, symptom.

Features:

1) Are there any particular areas where COVID-19 is most vulnerable?
2) What age range is more prone to contracting the virus?
3) Have the number of deaths decreased since the beginning of this year?
4) How many new cases are increasing in the U.S, by state and globally every day based on the user's choices ?
5) Charts that show confirmed cases, number of deaths, recovered cases, number of new cases, respectively.
6) Global mortality rate

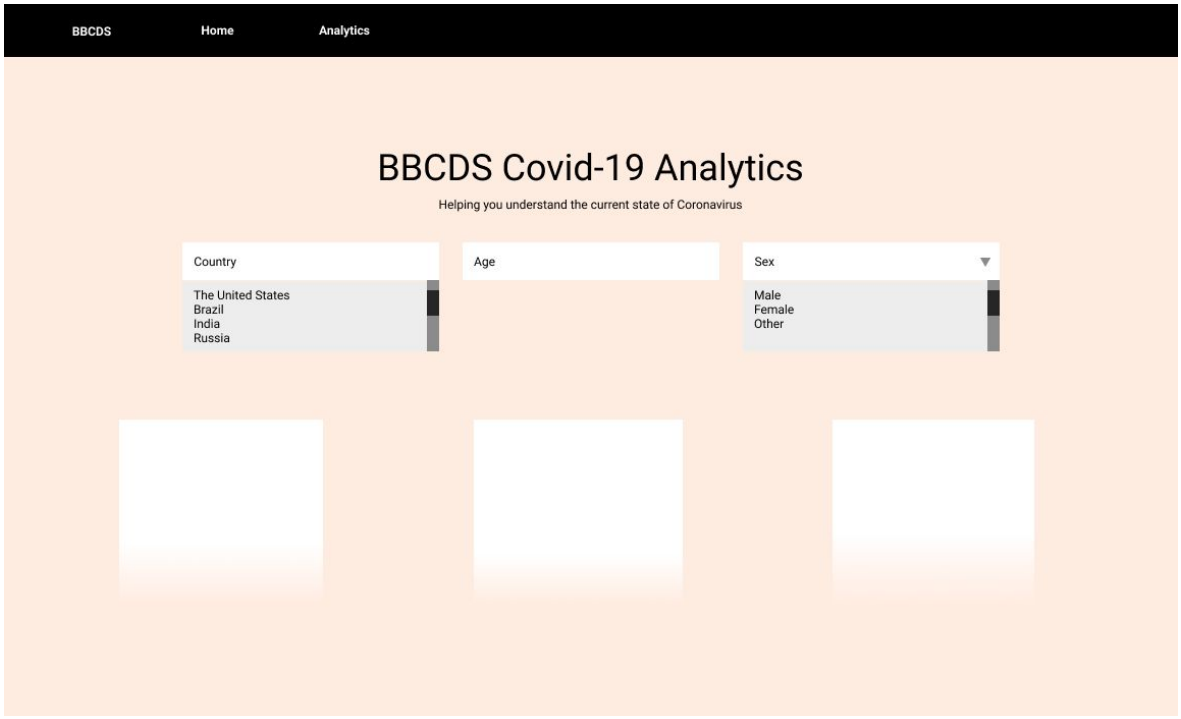
Fields of interests to search:

- Search by **age** of previous confirmed corona cases
- Search by **sex** of previous confirmed corona cases
- Search by **country** of previous confirmed corona cases
- Search by **city** of previous confirmed corona cases
- Search corona cases in specific **date range**

GUI design and User test cases:

1. **10/15 Sprint**
    a. Input field for country, age, and sex
    b. Autocomplete feature for country input field
    c. A dropdown list of searchable sex options
    d. Shows confirmed, death, recovered number under the Input field

UI Design for Search operation for multiple fields in the data



Taskboard:

1. **10/08 Sprint Done List**
    a. Setup web and api servers
    b. Setup web request to the api server
2. **10/15 Sprint Todo List**
    a. Add csv file of datasets
    b. In the homepage add an input field for country, age, and sex
    c. Once all search fields have content and have been validated for user errors, the search should submit automatically.
    d. On search submit, query the backend for a response that returns all cases that match the search query.
        i. Ex. Search for country [United States], age [32], sex [Male] returns all 32 year old males that were confirmed with corona virus in the United States.