**PROJECT REQUIREMENTS**  
  
PROJECT: Heterologous Booster page for the NCATS Open Data Portal

DESCRIPTION: The purpose is to publish and display on a public web page the data related to Heterologous booster studies of COVID-19 Therapeutics so that anyone can review the data, as well as filter by several criteria. Several screenshots have been attached. You can also review the current public version of this page developed in Angular. You can find this page at:  
<https://opendata.ncats.nih.gov/covid19/variant/heterologous-booster>

The advantage of looking at the page is that you can see how the filters work as well as how the grid is formatted.

TECH STACK: Develop a web application that has the following:

* Front-end UI should be developed using React + Vite using Javascript/Typescript. Use Ag-Grid for the data table.
* In place of back-end middleware and database, a .CSV file has been provided that contains all of the data. You can simply load that file into your app to get the data you need.

DATA COLUMNS TO DISPLAY: These are the columns that you need to display in the grid. This table shows you the data column name in the .csv file, and then the “visual name” that you need to use. It also includes any formatting notes. You need to enable “pagination” at the bottom of the Ag-Grid.

|  |  |  |
| --- | --- | --- |
| **Data Column Name** | **Front End Column Name** | **Formatting Notes** |
| hb\_report\_number | Report Number |  |
| data\_source | Data Source | Format as blue hyperlink with an icon indicating it pops out into new window |
| data\_source\_type | Data Source Type |  |
| sample\_source | Sample Source | Capitalize the value for display |
| vac\_prime | Primary Vaccine |  |
| vac\_boost1 | Booster Vaccine |  |
| boost1\_class | Booster Class |  |
| assay\_cat | Assay Category |  |
| assay\_type | Assay Type |  |
| assay\_type\_mod | Assay Modality |  |
| viral\_ lineage | Viral Lineage |  |
| vaccine\_activity | Assay Readout |  |
| boost1\_time1 | Time Point 1 |  |
| boost1\_effect1 | Time Point 1 Effectiveness |  |
| boost1\_time2 | Time Point 2 |  |
| boost1\_effect2 | Time Point 2 Effectiveness |  |
| boost1\_time3 | Time Point 3 |  |
| boost1\_effect3 | Time Point 3 Effectiveness |  |

DATA FILTERS: The page should have 5 filters in a column on the left side of the page which is also to the left of the grid. The filters should use checkboxes for each unique value that is in the specified column. The checkboxes should be OR logic where click multiple checkboxes adds any record that has that value in the column. The section labels for the filters should be color: #006666. There should be a right facing caret that when clicked opens that filter section to display the unique checkboxes available for that filter.

|  |  |  |
| --- | --- | --- |
| Data Column(s) for Filter | Visible Filter Section Name | Notes |
| vac\_prime | Vaccine (Prime) | Sort checkboxes alphabetically |
| vac\_boost1 | Vaccine (Booster) | Sort checkboxes alphabetically; this has a lot of options so you need to set fixed height and enable a scrollbar to scroll through the checkboxes when section is opened |
| viral\_lineage | Viral Lineage | Sort checkboxes alphabetically |
| assay\_cat | Assay Category | Sort checkboxes alphabetically |
| data\_source\_type | Data Source Type | Sort checkboxes alphabetically |

VISUAL FORMATTING: The page should have a header and footer that matches the live page, as shown also in the screenshots. There are a number of images that you need to use to make the design look properly. You can download those from the live web page, or a zip file has been attached that contains all of the relevant images for this design.

Set the page title to: NCATS Variant Therapeutic Heterologous Variant Studies