

Interaction and Presentation

There are four filters on the website.

1. Sort

Users can choose a way to sort the county data that they search for. There are three options: Death rate by county, Infection rate by county and vaccination rate by county. Data can be sorted by these three attributes.

2. State

Users can choose a specific state that they want to search for. The result will be covid and census information of counties in this specific state. User can also enter 'ALL' to get county information in the whole country.

3. County size

Users can filter data by country size. There are four options: population below 5000, population from 5000 to 10000, population above 10000 and all counties.

4. Minority

Users can filter data by minority rate. Counties are divided into three group: Counties with low minority rate, medium minority rate and high minority rate.

The system presents the covid-19 data of counties based on four filters above.

The project uses flask and plotly to implement its function.

After answer four questions above on the first page, users can click **Search** to get the result. The result is a table and a plot, containing all the counties that meet the users' requirements.