

COVID 19 DASHBOARD JOURNAL

By Shweta Korulkar

- **Collaborators:**

1. Shweta Korulkar
2. Sree Vandana

- **Datasets:**

1. <https://github.com/owid/covid-19-data/tree/master/public/data/vaccinations>
2. <https://github.com/govex/COVID-19>

- **Deployed site link:**

<https://covid19-web-dashboard.herokuapp.com/>

- **GitHub repo link:**

https://github.com/sk192/Front_End_Web_Dev_Project

- **Stack Used:**

1. HTML
2. CSS and Bootstrap
3. JavaScript
4. Fetch API, Axios
5. React
6. Heroku (deployment)

Week 4:

Ever since the announcement for final project was made, We were unsure of what might be a good project. After searching lot's of topics I came up with an idea of Covid19 dashboard. As we are right now in this Covid19 situation, I thought this might be a good idea to work on Covid19 dashboard where we can see all the information at one site. My partner Vandana also liked this idea so we both decided to do that project. Eventually, we also made some decisions to integrate even more useful features to our app like vaccination status, most popular vaccine in particular country information etc. So Vandana created a web flow design on how our website might work. And I searched for various APIs that might help for our project.

Week 5:

We are still looking for some good APIs that might help for our project, as we got into some trouble finding APIs on vaccination information. However, we'll start the coding part and simultaneously explore for APIs.

Week 6:

This week I found some API'S but that has not enough information to display. So started looking for public github dataset. After searching for Datasets, I found 2 GitHub repositories where I got information regarding Vaccination and Vaccine-by-manufacture) So I downloaded it. It's a CSV file originally but I used an online tool to convert from CSV to JSON and saved it in our project folder.

After finding Datasets, I created a react app in our repo and added some code for responsive headers with the help of 'react-bootstrap' module. I also added new routes to redirect to "vaccination status page", "Home page" and "vaccine-by-manufacturer page" and I began working on building that page.

Week 7:

First I started designing vaccination status page. For that I added react multiselect drop down box. While displaying multiselect, I was having problems for displaying options in drop down. After couple of trials I found that, due to incorrect data format I was facing this issue. So resolved this issue by using array of object.

Then I thought of Displaying comparison bar chart to represent countries number of people partially vaccinated and fully vaccinated and table with all countries vaccinations status information. While displaying table I faced an issue of vertical scroll bar to table div. I resolved this issue using 'overflow-y:scroll' css to table instead of table div. Also had an issue of displaying div to full width. Resolved this issue by using width and height in percentage instead of using 'vh' and 'vw'. Next week I am going to work on displaying vaccine distribution by manufacturer.

Week 8:

I'm getting to learn new things about react and its state management and react component. I also started working on displaying vaccine manufacturer data. While thinking about what graphical representation will look good to display vaccine manufacturer data, Vandana gave me this idea of pie chart, doughnut chart or bar chart. So I decided to use react-donut-chart.

Week 9:

Added react-donut-chart in my page. For selected country, doughnut chart will display information regarding vaccine-by-manufacturer like what vaccine is available and which vaccine is more popular in selected country. Also added footer which displays the information about library/framework, API/Datasets used in this project.

Week 10:

To finalize our app, I made little adjustments, like the footer placement, fixing background image issue, some animated CSS to nav bar items, added media query for responsiveness and used WAVE page for accessibility etc. Finally, we deployed our project to Heroku and it's all set.

- **What did not worked:**

I originally want to include a map and display data when we hover over the map. Tried working on that for a while and couldn't able to achieve what I wanted to do with maps (had trouble with tooltip). As this is

stopping me from doing other parts of the dashboard, I decided to come back to it in the end, but ended up not implementing that. Next time I want to implement this feature.

- **Packages installed:**

(Few packages installed by both of us)

Chart.js ▫ for displaying graphs.

React-icons ▫ to display mini icons where ever required.

React-bootstrap ▫ for nav-bar

React-router-dom ▫ for routing to different pages

React-svg-worldmap ▫ for displaying world map, but did not use it.

- **What I might do differently**

- I really enjoyed using react and will definitely use in future for web development projects.
- In this project I used table <tr> tag for creating table. When I was looking for react component to display chart, I can across react-table which is a headless UI. I really liked the features it provides. I will try to implement tables with react-tables next time.
- I also want to try other react UI elements/features which makes the work easier and gives good look to the page.

Commands :

1. `git shortlog --numbered --summary`

```
shweta@shweta-dell:~/Desktop/MS/Front-end-web-dev/covid19Project/covid_dashboard$ git shortlog --numbered --summary
170 sk192
44 Sree-Vandana
1 Sree Vandana
shweta@shweta-dell:~/Desktop/MS/Front-end-web-dev/covid19Project/covid_dashboard$
```

2. `git log --format='%aN' | sort -u | while read name; do echo -en "$name\t"; git log --author="$name" --pretty=tformat: --numstat | awk '{ lines += $1 - $2 } END { printf "lines: %s\n", lines }' -; done`

```
shweta@shweta-dell:~/Desktop/MS/Front-end-web-dev/covid19Project/covid_dashboard$ git log --format='%aN' | sort -u | while read name; do echo -en "$name\t"; git log --author="$name" --pretty=tformat: --numstat | awk '{ lines += $1 - $2 } END { printf "lines: %s\n", lines }' -; done
sk192 lines: 239731
Sree Vandana lines: 34
Sree-Vandana lines: -83046
shweta@shweta-dell:~/Desktop/MS/Front-end-web-dev/covid19Project/covid_dashboard$
```

3. `git ls-files --exclude-standard -- '!package-lock.json' '!**/*.eslintrc' | xargs wc -l`

```
shweta@shweta-dell:~/Desktop/MS/Front-end-web-dev/covid19Project/covid_dashboards$ git ls-files --exclude-standard -- '!package-lock.json' '!:**/.eslintrc' | xargs wc -l
23 .gitignore
62 Covid19Dashboard_Journal.txt
3314 FrontEnd-Project-Journal-SreeVandana.pdf
428 FrontEnd-Project-Journal-ShwetaKorulkar.pdf
35 README.md
59 package.json
wc: public/dataset/us state vaccinations.csv: No such file or directory
wc: public/dataset/vaccinations-by-manufacturer.csv: No such file or directory
25075 public/dataset/vaccinations-by-manufacturer.json
wc: public/dataset/vaccinations.json: No such file or directory
wc: public/dataset/vaccine_data_global.csv: No such file or directory
3281 public/dataset/vaccine_data_global.json
wc: public/favicon.ico: No such file or directory
30 public/index.html
9 public/manifest.json
3 public/robots.txt
35 src/App.css
38 src/App.js
8 src/App.test.js
28 src/components/HomePage.jsx
50 src/components/about.jsx
60 src/components/cases/CountryGloabTable.jsx
237 src/components/cases/countryDataTable.jsx
53 src/components/cases/countryGloabBarGraph.jsx
63 src/components/cases/countryLinearGraph.jsx
158 src/components/cases/countryView.jsx
6 src/components/cases/covidInfo.jsx
450 src/components/cases/globalView.jsx
79 src/components/cases/regionStatus-barGraph.jsx
219 src/components/cases/regionTableData.jsx
60 src/components/cases/statusCardsContainer.jsx
63 src/components/footer.css
107 src/components/footer.jsx
10 src/components/homePage.css
18313 src/components/images/covid2.jpg
517 src/components/images/pic2.jpg
41 src/components/navbar.css
59 src/components/navbar.jsx
67 src/components/vaccineData/TableData.css
48 src/components/vaccineData/TableData.jsx
51 src/components/vaccineData/VaccineInfo.jsx
51 src/components/vaccineData/barchart.css
155 src/components/vaccineData/barchart.jsx
96 src/components/vaccineData/stackedBar.jsx
215 src/components/vaccineData/vaccineManufacture.css
143 src/components/vaccineData/vaccineManufacture.jsx
wc: src/components/vaccineData/worldMap.css: No such file or directory
wc: src/components/vaccineData/worldmap.js: No such file or directory
608 src/css/cases.css
wc: src/custom.css: No such file or directory
7 src/index.css
17 src/index.js
13 src/reportWebVitals.js
5 src/setupTests.js
54449 total
```