

# WEB APP DOCUMENTATION

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# Programming Languages

## NEXT.JS

According to the Next.js website, “Next.js is a React framework that gives you building blocks to create web applications. By framework, we mean Next.js handles the tooling and configuration needed for React and provides additional structure, features, and optimizations for your application.” If you are unfamiliar with the framework, the Next.js website hosted by Vercel is a great resource. You can access it at this link: [What is Next.js?](#)

The Next.js framework provides the structure we used to build the web application.

## BOOTSTRAP

As described in the INFO 340 textbook, Bootstrap is “the most commonly used CSS framework on the web. Sometimes called “Twitter Bootstrap”, it was originally created at Twitter to enforce some consistency among their internal tools, but was released as an open-source project in 2011. Its popularity has benefits and drawbacks: it’s very well tested, documented, and supported, but it’s also so prevalent that it’s default look has become cliché.”

We started using Bootstrap for its precoded components, such as navigation bars and footers. Bootstrap, in combination with our CSS file, makes up the stylings of our website.

Suppose you are unfamiliar with Bootstrap or need a refresher. In that case, we invite you to visit the Bootstrap Website [Get started with Bootstrap](#) page and the INFO 340 textbook [Chapter 9 CSS Frameworks | Client-Side Web Development](#).

## Next-Translate

For the localization of website, we need to use [Next-Translate](#) library, basically composed of two parts: Next.js plugin + i18n API, to implement translation feature in the Next.js environment. To use the plugin, we need to install the ‘next-translate-plguin’ as a devDependency. By adding routing and plugin features to parse all pages in configurations, we will be able to connect our own versions of translation in JSON files typically stored in locales folders and rewrite the content in every page. For more information and detail tutorials: [Step-by-step: How to Internationalize your NextJS App with Next-Translate](#)

# GitHub Repository Structure

For each of these pages, describe what does this file contain? How does it show up on our website? and then anything that a new set of eyes needs to know before looking at your code.

## .NEXT

This folder is a special folder in Next.js that is automatically generated when you build your application. When you run the “npm run build” or “yarn build command” in your Next.js project, the .next folder is created. This folder contains a compiled version of the application that is optimized for production use.

## COMPONENTS

### Navbar.js

This file contains the code to produce the navigation bar for our website. The link to the news page is commented out, but our vision is to reactivate this link once the news page is ready to be published. More information on the news page can be found below.

### Footer.js

This file contains the code to produce the footer for our website. The footer contains the information and links to pdf files of the privacy statement and terms of service, links to our affinity organizations, and email address to contact our organization.

### Income\_viz.js

This file contains the code to create the income visualization. The file holds the data about the API endpoint of Latino Income, as well as the radar chart visualization code using ChartJS. This file is sent to the Data.js to create the visualization.

### population\_bar\_vis.js

This file contains the code to create the population visualization. The file holds the data about the API endpoint of Latino population estimate, as well as the stacked bar chart visualization code using ChartJS. This file is sent to the Data.js to create the visualization.

## LOCALE > EN

The JSON files in this folder are the default language versions for the contents on the website. The files containing the key and corresponding contents afterward. Every pages' content will be changed into the key itself to point to the specific contents, whether it is in the default language contents or the translation contents.

## LOCALE > ES

The files in this folder are necessary for the Spanish toggle button to work. If any files in the Pages or Components folders are edited, then the Spanish equivalent in this folder must be edited.

### **Components\_es**

This folder contains the navigation bar and footer in Spanish. Each of them has its folder.

### **Pages\_es**

The folder contains the core pages translated into Spanish. Each of them has its folder.

## NODE MODULES

This folder in Next.js contains all the third-party packages and dependencies that your application needs to run. It is used to provide the various features of Next.js and can get quite large as your application grows. Make sure to run “npm install” in the terminal in order to download all the dependencies to run this app.

## JSON

The folder consists of datasets that relate to the name of counties of Washington and the data for Washington state. Each dataset is used to create the visualization.

## PAGES

### **\_app.js**

This file holds the code for the \_app page, where the \_app.js in NextJS serves as the main entry point for the application. It is a special file that is used to initialize pages and is loaded on every page.

### **\_document.js**

This file holds the code for the \_document page, where the \_document.js in NextJS is a special file in Next.js that is used for server-side rendering. It allows you to customize the initial HTML document that is sent from the server to the browser. The file holds the code that will host the Roboto fonts, the font-awesome icons, the bootstrap CDN, and the title of our website.

## About.js

This file holds the code for the about us page. The first section gives background information on Long COVID, our topic of interest. The second section displays our thesis, and the third sections talks about our research team. Next, there are two photos of our partner organizations, the University of Washington and the Latino Center for Health. The last section showcases our team members and contributors.

## Data.js

This file holds the code for the data page. The page holds the information about how we have collected the data, the findings of our data, and the three visualizations.

For the first visualization, we have taken Latino population data API endpoint(<https://rprwae53w2.execute-api.us-west-2.amazonaws.com/v-1/latino-populations>) to create stacked bar chart visualization. The visualization was created through using ChartJS.

For the second visualization, we have taken Latino Income data API endpoint(<https://rprwae53w2.execute-api.us-west-2.amazonaws.com/v-1/latino-income>) to create a Radar chart. The visualization was created through using ChartJS.

For the third visualization, we have taken Long COVID cases of Latino people by County data API endpoint (<https://rprwae53w2.execute-api.us-west-2.amazonaws.com/v-1/cases-by-county?County=>) to create a map visualization with county specific information. The visualization was created through using Mapbox.

## Index.js

This file holds the code for the home page. Our homepage contains the information about what the webpage is for, who are our participants and the button that takes the user to submit their data, and where our participants for our data came from. The page is formatted through Bootstrap.

## News.js

This file holds the code for the news page. The original vision for this page was to host the posts under a hashtag we created. The hashtag would give us control over the posts that would populate the page. To make this possible, we worked with the Walls.io API. The motivation was to automate adding items to the page rather than having someone manually add information about the project. Unfortunately, we could not make this page work, and it was quickly populated by misinformation. Once posts start being made with a dedicated hashtag, this page can be activated again.

## RepoPage.js

This file contains access to the repository. The page contains the information about what our data repository purpose is, terms of usage, disclaimer, and button that takes the user to our open source repository. The page is formatted through Bootstrap.

## SubmitData.js

This file contains the code for the “Submit Data” and “Tell Your Story” buttons, where the user can input their information (data). The first field is for the user to input their ZIP code. This field is not required. The next field is a yes/no selector for the user to signal whether or not they’re Hispanic/Latino; this is a required field. The last field is where the qualitative data is collected, and the user inputs their experience with Long COVID, and this field is also required. Our submit button links to.

## Map.js

This file contains the code for the Map visualization. It is using React-map-gl as its primary way of rendering. There is a local Washington geojson file that it is using to render the counties shapes. The user will be able to hover over the counties and see information that is related to validating our thesis on the sidebar. The information for the counties will come from the following endpoints. Cases by county

<https://rprwae53w2.execute-api.us-west-2.amazonaws.com/v-1/cases-by-county?County=King>,

Latino population estimates:

<https://rprwae53w2.execute-api.us-west-2.amazonaws.com/v-1/latino-populations>,

and Physicians by county:

<https://rprwae53w2.execute-api.us-west-2.amazonaws.com/v-1/physicians-by-county?County=>.

Unfortunately we did not get it working by the launch date and have left it disabled in our repo.

## Api Folder

## PUBLIC

This folder contains all the images and files that are downloadable or displayed on the website. This should continue to be the case if the website is modified.

## STYLES

## globals.css

This file contains the CSS code for all of the pages. The CSS code for each page is separated by comments.