**Interactive-Maps**

Interactive-Maps is developed using Angular 15 on the frontend and Node.js on the backend hosted on a Linux server. In the Node.js server, Express.js framework is used for building a REST API to retrieve data for each state. Based on the state requested through the Express.js API call, it retrieves the state’s data from an Elasticsearch NoSQL datastore using the Elasticsearch Get API.

The Angular application contains 3 parts: header, footer and body. Body has most of the code and its subcomponents are created based on the functionality of the application. Services are used in the Angular app to communicate with the server and fetch REST data. An http call from the service communicates with the Node.js server to fetch results developed with Express.js framework.  
  
Different variables for prod, test, dev and local configurations which will be stored in a combination of environment files and server environment variables.

State data is added to Elasticsearch by running a script on the batch server.  
  
Common Commands.  
  
1. Start Angular app- ng serve

2. Start Node.js server in local - npm run start-local-server

3. Start Node.js server in Dev - npm run start-dev-server

Frameworks/packages used

1. Express.js – REST API fetching
2. Helmet – Security
3. Compression – Size reduction
4. Nodemon – dev server restarts
5. Bunyan – logs
6. Axios – Make http requests to Elasticsearch API

NodeJS

Angular

INTERACTIVE-MAPS

REST