FHIR Dashboard

Purpose

The dashboard represents an idea for a possible solution for displaying FHIR metrics from S3 data. The frontend for the project is built through React. The backend server is run with Express.js and is used as the API for the frontend to pull data from the AWS S3 Buckets.

The Data Analytics section on the web page provides the numbers for three (or more if needed) values. The descriptions and values in each box can be adjusted based on the CSV file pulled from the specified S3 Bucket. In addition, the card also shows if the given rules engine score passed or not based on the same CSV file given.
The Data Table section is where the table data fetched from the S3 Bucket containing a separate CSV file will be displayed. The table is currently defined by the first line in the CSV file containing the column headers. The CSV file can be easily changed and the table will dynamically update to the new columns that are defined in the CSV file.

Requirements

Node.js
Python

Procedure

Step 1: Install All of the Dependencies

Make sure you have all of the dependencies in the project installed using the following command:

```
npm install
```

Step 2: Start the Backend Server

If you are using live S3 Bucket data for development, start up the Express.js server by running the following the npm script:

```
npm run server
```

The server code is located within the directory `./server/index.js`

Step 3: Boot Up the Frontend

Boot up the frontend of the app by running the following script in another terminal:

```
npm start
```

Step 4: Boot Up the Frontend

You can now access the dashboard through http://localhost:3000

Conclusion

The dashboard provides a simple solution to showcasing FHIR metrics received from the Rules Engine. The backend allows for developers to easily add new endpoints if any other data from AWS is required and the components used with the React frontend make it simple to adjust the dashboard as needed in the future.