Task Requirements:  
**Your task is to create a Node.js web server that accepts time series data for 10 variables as input, stores it in a MongoDB database, and displays the data on the frontend using either Angular or React.js. This task includes both backend and frontend development.**

**🡺Setup Guide**

* Prerequisites:
* Node.js v16 or higher.
* MongoDB v5.0 or higher.
* A text editor or IDE for coding (e.g., Visual Studio Code, Atom, Sublime Text).
* Installing dependencies:

1. Clone the application repository to your local machine.
2. Open a terminal or command prompt and navigate to the application directory.
3. Run the following command to install the backend dependencies:

npm install

1. Run the following command to install the frontend dependencies:

npm install --prefix frontend

* Configuring the database:

1. Create a MongoDB database named time\_series\_data.
2. Start the MongoDB server.

* Environment variables:
  + 1. Create an environment variable named MONGODB\_URI and set its value to the connection string for your MongoDB database.
    2. Create a PORT environment variable and set its value to the port number you want the backend server to listen to.

🡺**Usage Guide**

* Submitting time series data:

1. Open a web browser and navigate to the application's URL.
2. Enter the time series data in the input fields.
3. Click the "Submit" button.

* Viewing the stored data:

1. Open a web browser and navigate to the application's URL.
2. Click the "View Data" tab.
3. Select the desired variables and time range.
4. Click the "Get Data" button.

* Interacting with the user interface:

1. The application provides various visualization options for the time series data, such as charts, tables, and graphs.
2. Users can zoom in and zoom out on the charts to see the data in more detail.
3. Users can hover over the data points to view additional information.

**🡺Running Guide**

* Starting the backend server:

1. Open a terminal or command prompt and navigate to the application directory.
2. Run the following command to start the backend server:

npm run start:backend

* Starting the frontend application:

1. Open a terminal or command prompt and navigate to the frontend directory.
2. Run the following command to start the frontend application:

npm run start

* Accessing the application:

1. Open a web browser and navigate to the application's URL.
2. The application should be accessible and ready to use.

🡺**Additional Notes**

* The application can be deployed to a cloud platform, such as Heroku or AWS, to make it accessible to users.
* The application can be extended to support additional features, such as real-time data visualization, data analysis, and machine learning.

{If we fail to run localhost:3000 even if everything is in the correct manner just try once by copying the path of app.html in visualstudio code and try to run in browse…I mentioned it because I found error while running it}

Output looks like::->

