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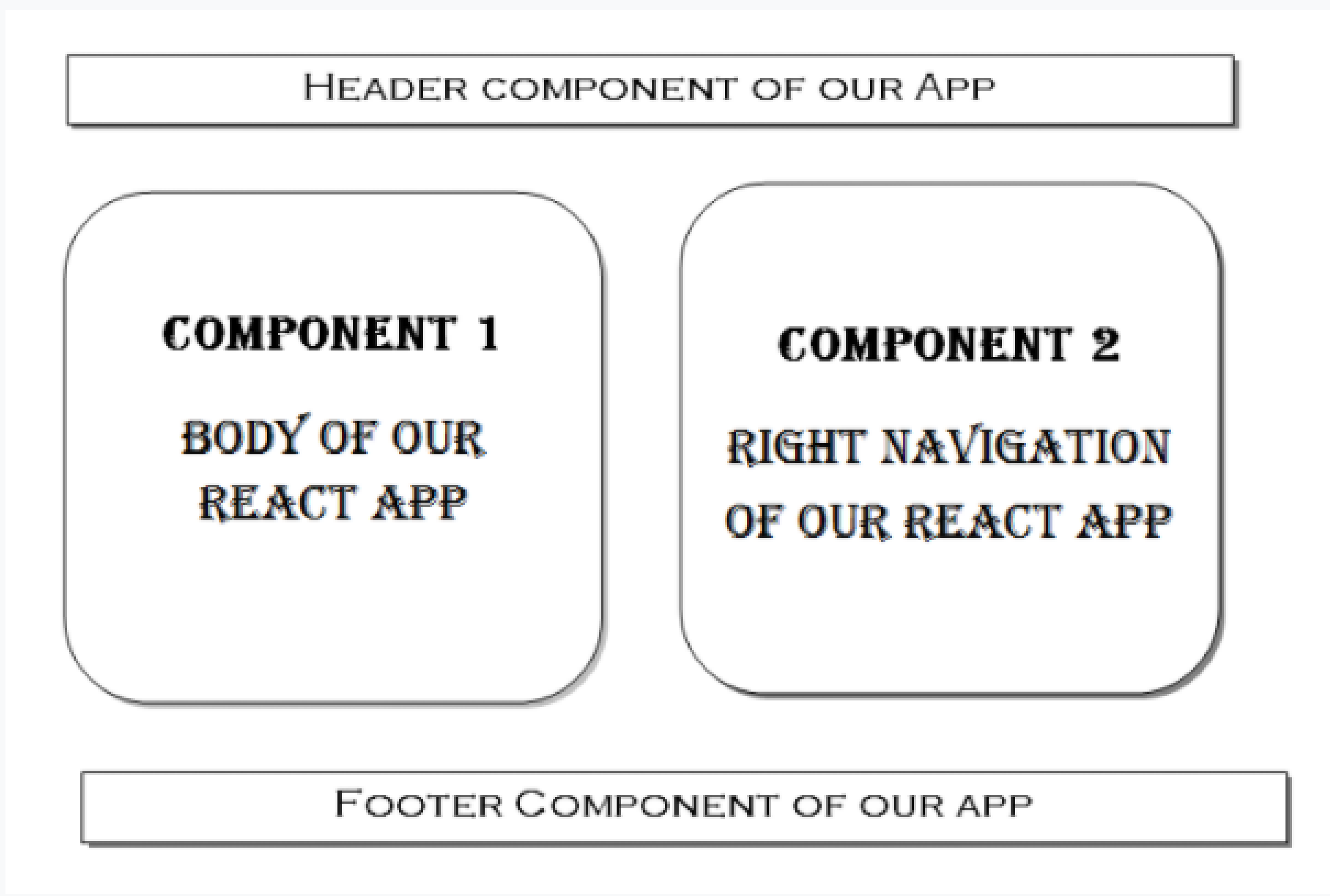
Creating our first react app using create-react-app | Complete React Course in Hindi #2

Let's firstly understand the structure of a React app.

Component-based architecture of react:

In react, we create our app by dividing it into different components. We can create components of our app individually and can reuse them again and again.

For Example: In the below Image, we have Structured our app into Header, Footer, Body, and right navigation bar.



You can create your react app's structure and design your component in whatever way you want.

Advantage of dividing our app into components:

- By dividing your app into components, you can reuse the component in the same or different app repeatedly.
- We can change the component of our app using Props and State.
- It also makes it easier to find errors in a large set of your code.

Let's begin creating our app:

We can create React Application by writing the Code from Scratch, But it will only lead to wastage of our efforts, As we can Directly Use Create-react-app Package.

NPM: It stands for Node Package manager. It helps in Installing Packages in Nodejs.

We can use NPM to install React app on our computer globally. But, we would be using the create-app command only once. So, Using npm will only lead to the Consumption of our hard disk storage capacity, and hence we will be using NPX instead of NPM.

NPX: It is an Npm package that is expected to be run only once in a project. In short, it allows you to use the Package without downloading it.

Write the following command in Your VS Code Terminal.

```
Npx create-react-app textutils
```

Textutils is the name of our app. After running the command, a folder named textutils will be created.

Folder Structure of Textutils(Our React App):

1. **Node_Modules:** It contains all the Packages, which are used by React app.
2. **.Gitignore:** It contains the files, which you do not want to push in Github.
3. **Package.json:** Contains all the packages which are installed in Node modules.
4. **Readme:** It provides the basic info about your app.

The two folders in which we are interested are :

1. **Public Folder:** It contains an Index.html file.

Index.html: It is the main HTML file of our react app. This is the page that is displayed on starting our application. It has an Empty Div tag like this:

```
<div id="root"></div>
```

Here, We will be rendering data from components available in the Src folder with the help of javascript.

- **Src Folder:** Most of the time, we will be writing our code in the Src folder.

Two most important File in the Src folder are:

- **Index.js:** This is the entry component of our app. It has the code of what to render and where.
- **App.js:** With the help of Index.js, the content and changes in it are delivered to the mentioned element.

```
src > index.js
1  import React from 'react';
2  import ReactDOM from 'react-dom';
3  import './index.css';
4  import App from './App';
5  import reportWebVitals from './reportWebVitals';
6  |
7  ReactDOM.render(
8    <React.StrictMode>
9    | <App />
10   </React.StrictMode>,
11   document.getElementById('root')
12 );
13
14 // If you want to start measuring performance in your app, pass a function
15 // to log results (for example: reportWebVitals(console.log))
16 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
17 reportWebVitals();
18
```

How to run your react app?

In index.js, open the terminal and write **npm start**, and your react app will be served at localhost:3000. You can make changes to the content of your React app in App.js. You can use **npm run build** if you are creating an app for production.

In the upcoming videos, we will be covering a lot of concepts of React with some amazing projects that would allow you to understand React completely. Do remember to Access the playlist of the Free React Course in Hindi by clicking [here](#).

Checkout our Github to access the source code at this point in the course, [Click Here](#)

Thank you for being with me throughout the tutorial. See you all in the next tutorial. Till then, Keep learning and Keep Coding.