Friday, November 17, 2023 8:32 AM

React JS

→ to run react we need that node JS must be pre installed.

→ use npx create-react-app ./ command in terminal to install reactJS

→ then use "npm start" to start the local host.

Note : React JS don't Manipulate the Actual DOM instead it Manipulates the Virtual Dome which makes it Much Faster .

React Basis

=> This down below is the default script in which we are going to write our code Which are kept inside the App cosnt function

```
import './App.css';

const App = () =>{
  return (

    <div className="App">

      <h1>Hello, World!!</h1>

    </div>

  );
}

export default App;
```

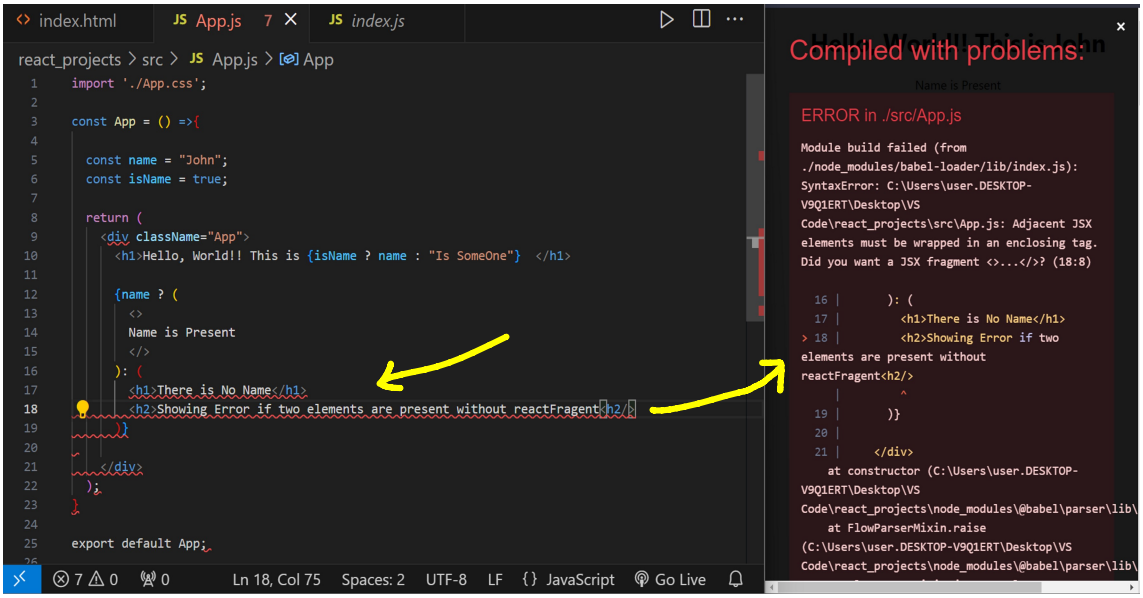
=> In React we can directly inject javascript in html and also can use ternary operations.

react_projects > src > JS App.js > App

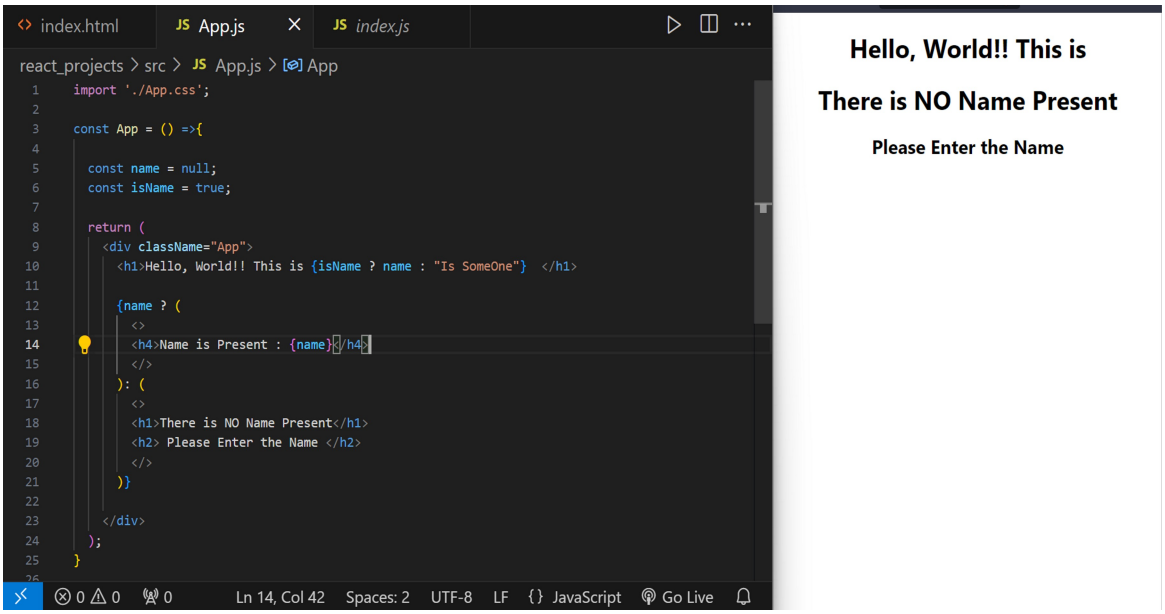
```
1   import './App.css';
2
3   const App = () =>{
4
5     const name = "John";
6     const isName = true;
7
8     return (
9       <div className="App">
10        <h1>Hello, World!! This is {isName ? name : "Is SomeOne"}  </h1>
11      </div>
12
13    );
14  }
15
16  export default App;
17
```

Direct use of JS in HTML which makes it Dynamic

=> In react we have reactFragment which is like empty div in which we can write some code .
It is important as if we want to run two diff different elements we need to warp them in a react Fragment

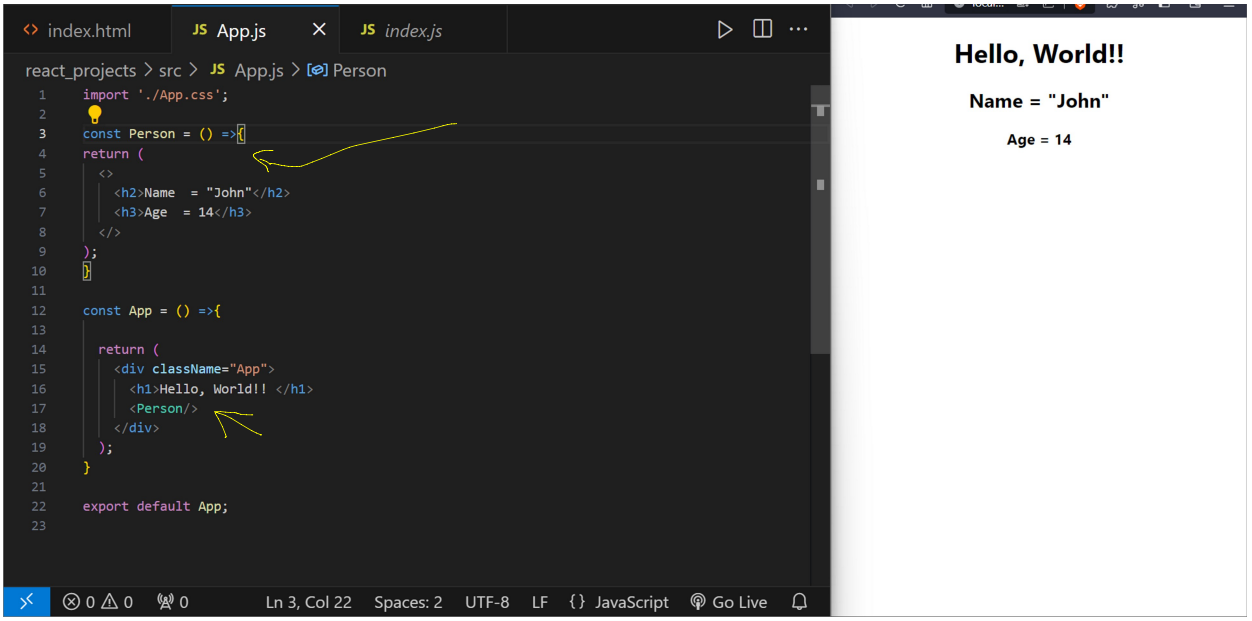


So if we just use the reactFragemt we can use both the elements



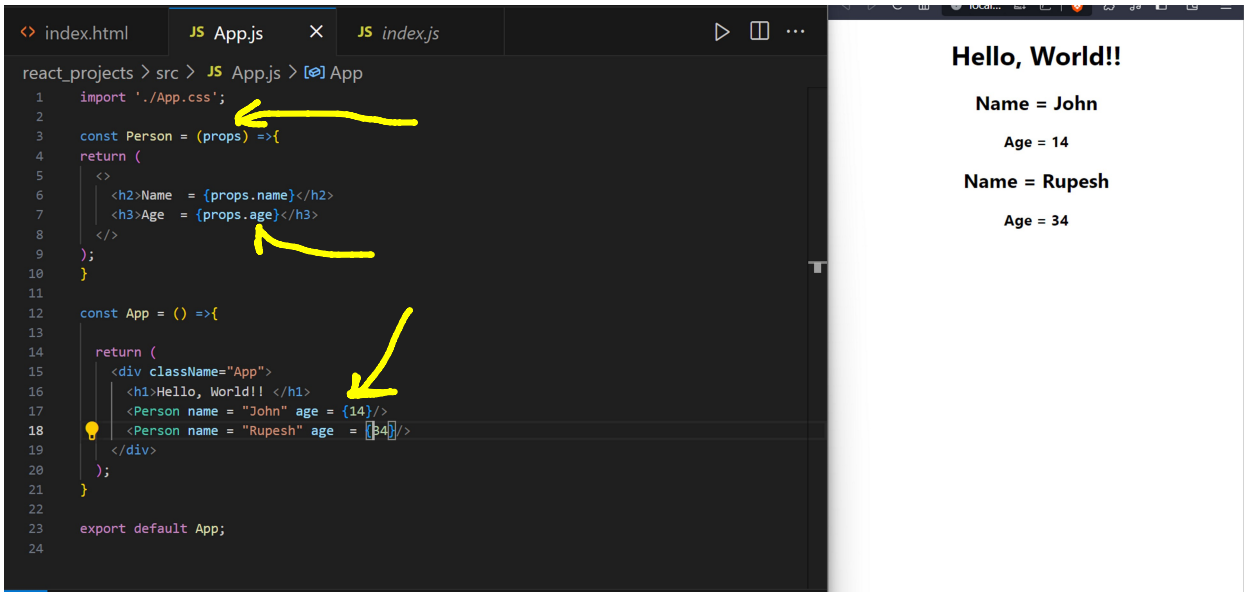
=> Components in ReactJS

We can create as many small components and can call them in the main component (like functions)



Props In ReactJS

	Props allows u to to pass dynamic data in components they are like arguments allowing to pass the dynamic data.

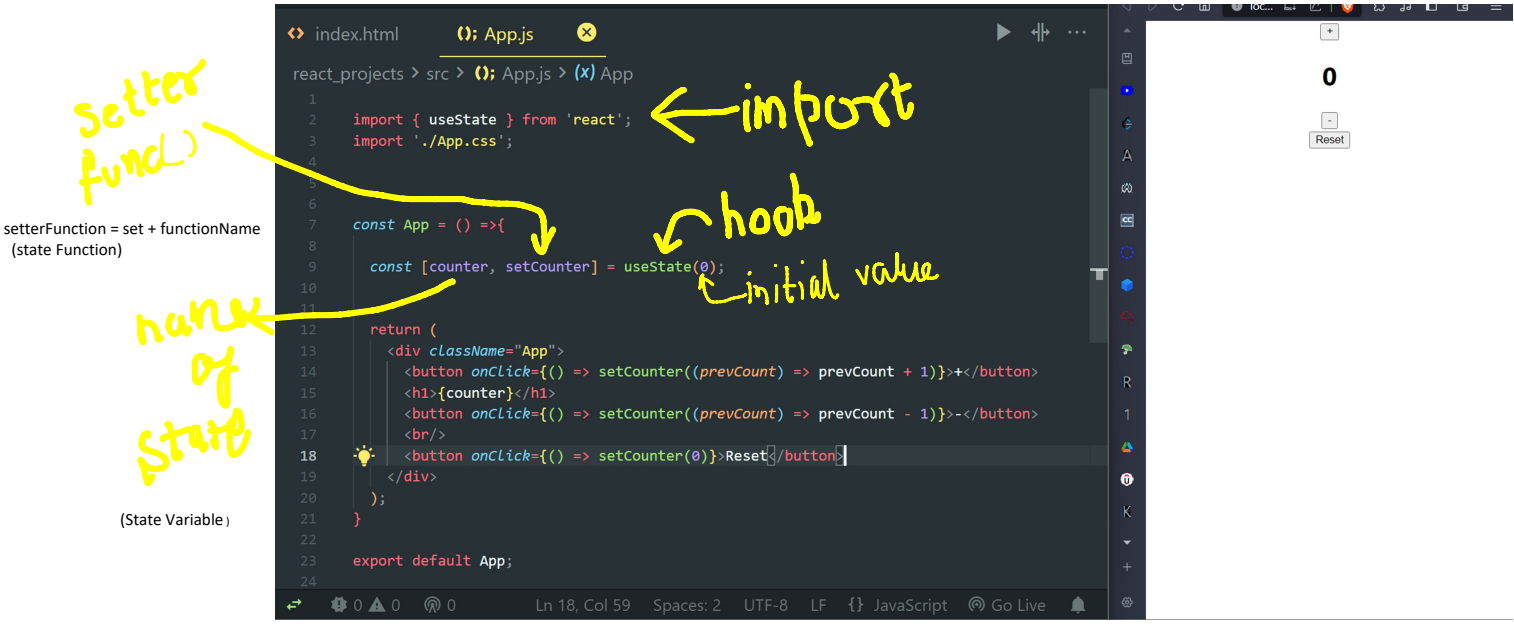


=> React State

In react state react is a plain javaScript Object used by react to react to represent a piece of information about the components current situation, and completely managed by the component itself

In order to do so we have to import the react usestate hook i.e. Import { useState } from 'react';

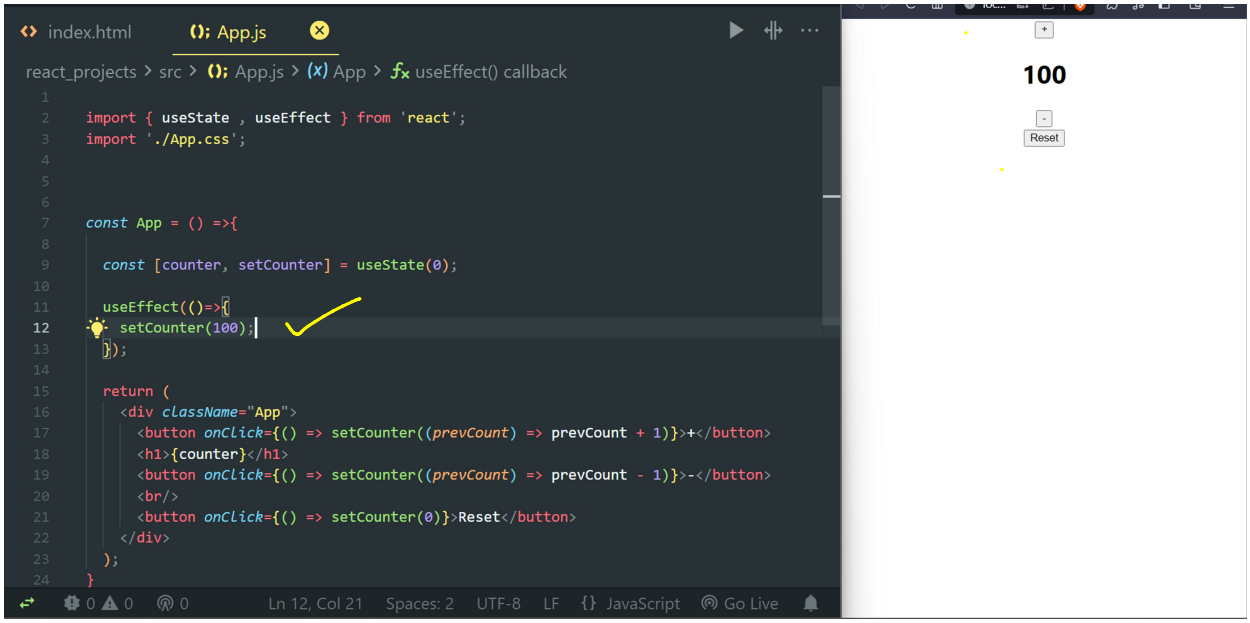
Hook : whenever a function is called and it start with 'use' its called a hook



Note : the important part is that we are changing the state without reloading the window

React has three main hooks and some addditional hooks : 1> useState (), use Efect(), useContext;

Note : Never change the state variable itself or make it static always try to use the sate function to do so.



But even in this as soon we try to increse the counter it rloads itself to 100 so the second parameter of useEffect is the dependency array