Revising React

1. **Initial Steps:**
   1. Setting up the structure for revising the react.
   2. We will use the vite for making the react folder setup, vite is the bundler for making the folder structure for React.
   3. Added tailwind CSS in the project.
2. **Basic Concepts:**
   1. React + React DOM = Web Applications
   2. React + React Native = Mobile Applications
   3. We need react because when we have to update only single element so using JS our whole tree needs to re-render the application but **by using React** when we click on button to change something it **makes the copy of our real DOM called virtual DOM** and it compare the changes made in the virtual DOM and then it merge the changes into the real DOM.
   4. JSX is the combination for HTML and JS.
   5. Our main working file is **App.jsx** and we export our whole code.
   6. In **Main.jsx** file we just import all codes from the while and export it to the **index.html** file.
   7. We can’t directly return the two tags together, to return more than 1 tag we have to use the **empty fragments “<> </>” or** **use a simple empty div tag <div> </div>** to store all the elements.
   8. To declare any variable, functions; declare them outside the return statement inside the function.
3. **Hooks:** Hooks are special type of functions which provide powerful power to react. Hooks are functional components.
   1. **Use State:** It is a special container used for storing and updating the data into the functional component. **State** means the data which changes over time.
      1. **Syntax:**

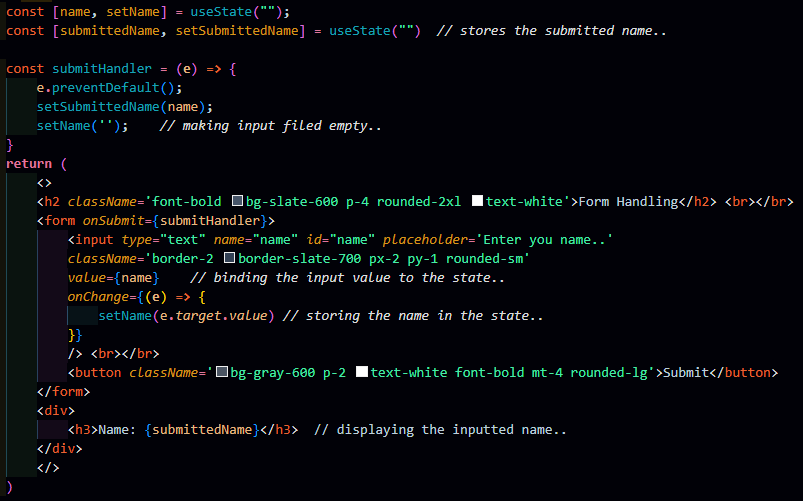


Here, user: It a read only variable, Set user: It is write only variable. Whenever we assign values, we assign to user; in the example you can see that Aman Kumar is assigned to user and set user will be used when we need to change the value of the user.



Like, we are changing the user’s value to new user value using use state.

1. **From Handling:**
   1. **Preventing the default behavior of the form:** After filling the input filed, when we click on submit button it reloads the page and our text in input field is removed to stop this we will prevent the default behavior of our form.
2. **Two way Binding:** 
   1. It is used to input the text in the **input field using Hooks NOT directly** putting the values in the field.
   2. Example for the two-way binding:👇



1. **Components:** 
   1. Components allow you to break down a complex UI into smaller, reusable, and independent pieces of code. You can use these components many times.