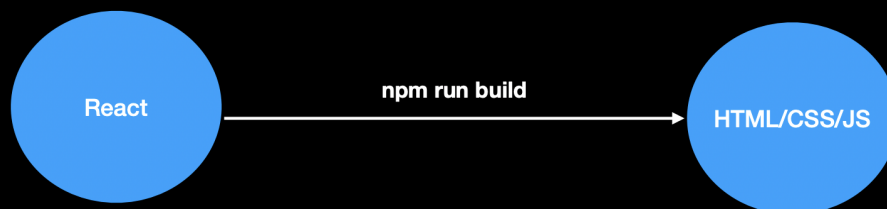




Day 21 - React Foundations

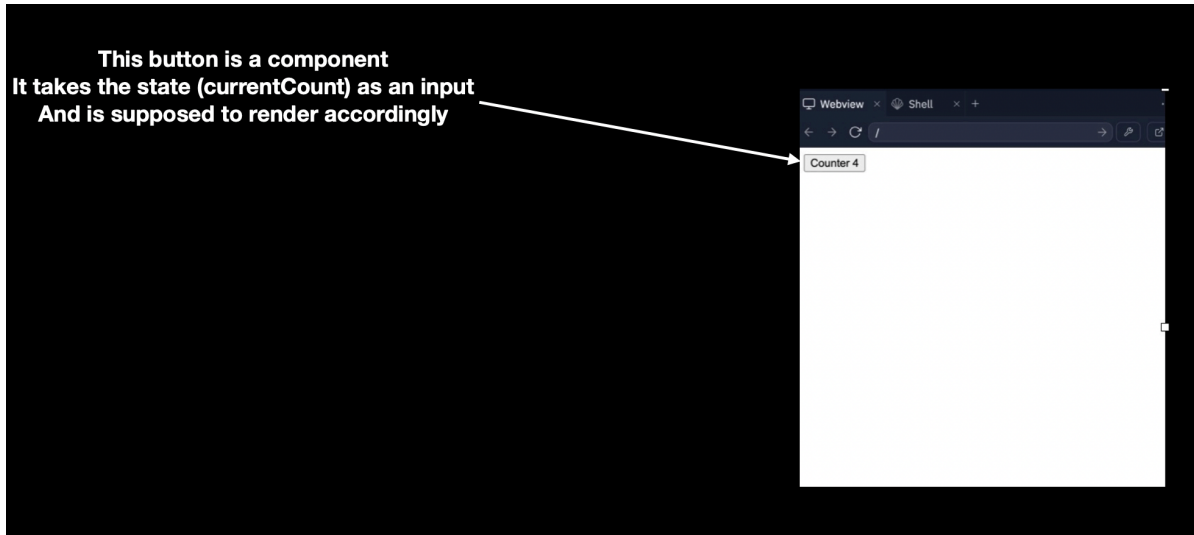
1. Earlier JQuery was used to do DOM manipulation, now it is React.
2. Facebook uses React.
3. It's a syntax under the hood which is used to manipulate HTML, CSS, JS files.

React is just an easier way to write normal HTML/CSS/JS
It's a new syntax, that under the hood gets converted to HTML/CSS/JS



4. State :
Anything on the website that is dynamic is known as a state.
Anything which changes.
Ex : Counter in the example.
5. Component

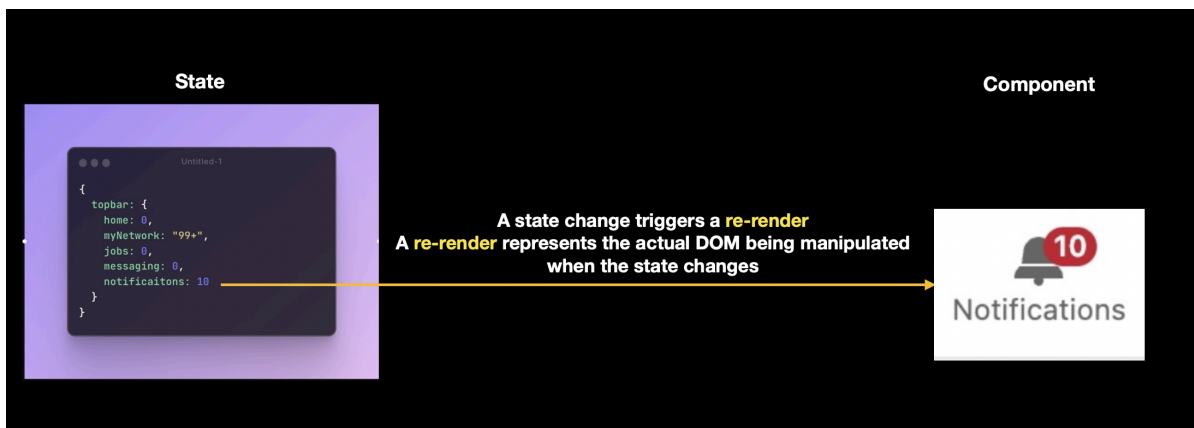
A button which takes props as an input and returns you the actual HTML, CSS, JS is a component.



```
buttonComponent("Compile", "play" , "green")  
//this is the replit run buttonComponent Example.
```

6. Re- rendering

When the notification changes on the component.



7. In react you just have to define the components and the state for the app to work. —
> Basic thing to keep in mind.
8. [JSX file](#)
A JS file inside which you can write both JS & XML.
9. Counter code in React way:

```
// state, components
import { useState } from "react";

function App() {
  const [count, setCount] = useState(0);

  function onClickHandler() {
    // state.count++; --> this is not the right way to call the
    //it gave you the setCount function above to call the count
    setCount(count + 1);
    //we have used console.log here because the count is not be:
    //and react states that to make it visible define the state
  }
  return (
    <div>
      <button onClick={onClickHandler}>Counter {count}</button>
    </div>
  );
}

export default App;
```

10. To change react code into HTML,CSS

```
npm run build
```

11. When props are introduced

```
import { useState } from "react";

function App() {
  const [count, setCount] = useState(0);
  return (
    <div>
      <CustomButton count={count} setCount={setCount} />
    </div>
  );
}

//component

function CustomButton(props) {
  function onClickHandler() {
    props.setCount(props.count + 1);
    //while using props the code should be props.setCount and pr
  }
  return <button onClick={onClickHandler}> Counter {props.count}
}

export default App;
```