**React js-**

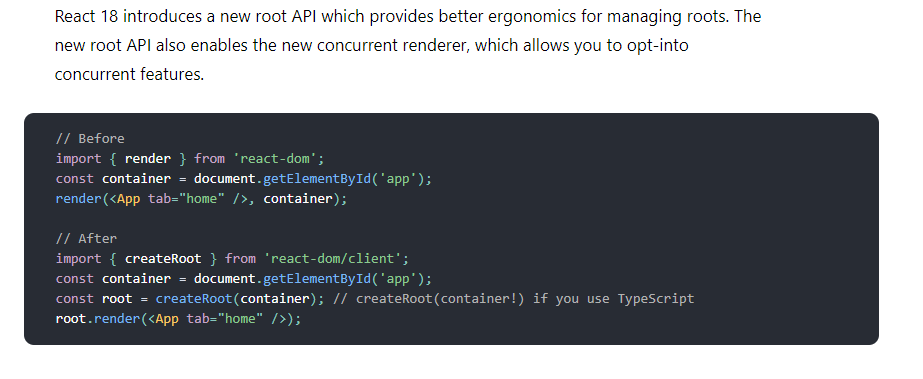
**JSX—**



This funny tag syntax is neither a string nor HTML.

Color-rgb(40,44,52)

It is called JSX, and it is a syntax extension to JavaScript. We recommend using it with React to describe what the UI should look like. JSX may remind you of a template language, but it comes with the full power of JavaScript.



**Virtual Dom ---**

A copy of dom is created alongside the actual dom. It is used to identify changes.

**State ---**

Trigger re render only when

1.when the state changes

2.when the props changes

For state changing we use useState

Const [ state , function for changing state] = useState()

EX- const [counter ,setcounter] = useState(0)

useEffect(function, dependency array{

// by default runs after every re render

if any time our dependency array changes , function is called

}

useref – if the value changes it again does not rerendered it.{

//preserves previous value

//does not trigger re render

//target dom nodes/element

}

/\*\*

Const products = useRef([ ])

Products -> {current : [ ]}

Products.current.push(“shirt”);

Products -> {“shirt”}

Note : would not trigger a re render

Const [products ,setProducts ] = useState([ ])

Products -> [ ]

setProducts([“shirt”])

products - > [“shirt”]

Trigger a re render

\*\*/

Optimization in react

UseMemo(function ,dependency array)

UseCallback(function , dependency array)

1 render ->1011 memory location

2 render ->1011 memory location

3 render ->1011 memory location

**UseContext 🡪**

A solution to fix the problem of prop drilling