**Virtual Dom in React**

**DOM In JS**

The whole DOM tree gets updated if we add/update one element in the DOM. This process makes the app slow.

<body>

    <div *id*="box">

        <h2>hello web</h2>

        <p>some data</p>

    </div>

    <button *onclick*="**myfun** ()">click me</button>

    <script>

     function **myfun**() {

        let pElement =document.**createElement**('p');

        pElement.innerHTML="this is ptag";

        document.**getElementById**("box").**append**(pElement);

     }

    </script>

</body>

If we add/update n no of the element in the DOM, the whole DOM gets updated. This process is costly in terms of memory, process, and app performance. React Solve this problem

**React Virtual DOM – React DOM**

React internally has/creates a lightweight copy of the real DOM.

Whenever any change happens in the virtual DOM, React creates another virtual DOM and compares both virtual DOMs to see the changes, and finally updates only these changes in the real DOM, not updating/loading the whole DOM