**Namaste React**

**Telegram video notes**.

What does emmet in vs code do?

What is a CDN ?(content delivery n/w)

Interview questions as well

Whether react is a library or a framework? Its a library.Main diff. Is that it takes minimum effort to put a library in our code and can be applied to a very small part of the code also.

Javascript:

createElement function is used to create html tag using JS.

appendChild, to append String to parent.

JS engine gives this functionality so that the browser knows what is a window and what is DOM.

In an array we can store values of different data types and push function can be used to add new values to the array. And POP message to delete the last item of the array.

**EPISODE 1: Inception**

Emmet generates code for us.

In vs code: html:5 gives basic skeleton of HTML.

Appendchild can be used to inject some child element inside a root element.

Browser has a JS engine in it, so it is able to understand the code, eg: document, getElementById etc.

What is CDN?

What is crossorigin?

What is the shortest program of JS? : empty file.

**CDN links** are basically websites where react is hosted and we are just injecting it into our website. If we open the src of these CDN links, they are basically Javascript code. React is actually JS files(written by facebook developers).

Ways to inject react in your code:

By CDN links.

<script crossorigin src="https://unpkg.com/react@18/umd/react.development.js"></script> // this is the core of react

<script crossorigin src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script // this is the react library which is useful for DOM manipulations.

These are done in 2 different files as react also works in other devices.

**What is crossorigin?**

The crossorigin attribute sets the mode of the request to an HTTP CORS Request(Cross-Origin Resource Sharing (CORS) is an HTTP-header based mechanism that allows a server to indicate any origins).

In react the createElement takes 3 arguments i.e. the tag, an object(used to give attributes to the tag) and the content of h1 tag(basically the children of the tag that we are creating). I we want more that 1 child i.e. create siblings then pass last argument as Array.

Creating an element is done by react library but creating a root is the job of the ReactDOM.

**First React code :**

<body>

    <div id="root"></div>

    <script crossorigin src="https://unpkg.com/react@18/umd/react.development.js"></script>

    <script crossorigin src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>

    <script>

        const heading= React.createElement("h1", {}, "Hello world from react!");

        const root = ReactDOM.createRoot(document.getElementById("root"));

        root.render(heading);

    </script>

</body>

Try doing console.log and print the heading variable in above code: it will give an object.

React element is not some HTML tag element, it is actually a React object while rendering it to the DOM it converts itself into the HTML that browser understands.

If Root already has some tag inside it then , the render function will replace it with the content inside the render func.

**Basic React In Javascript not JSX therefore, not that simplified:**

const heading = React.createElement("div", {id: "parent"},

[React.createElement("div", {id: "child1"},

[React.createElement("h1", {}, "I am H1 tag" ),

React.createElement("h2", {}, "I am H2 tag" )]),

React.createElement("div", {id: "child2"},

[React.createElement("h1", {}, "I am H1 tag" ),

React.createElement("h2", {}, "I am H2 tag" )])]);

        const root= ReactDOM.createRoot(document.getElementById("root"));

        root.render(heading);