Date: - 14 Aug 2024

-> Key words like

EPISODE-1

Browsey understand innerHPML

document create Element

appendehild this keyword as it have a Javascuipt engine init that enecutes these Js.

Ans-No Browsey does not understand react?

- We need to get react into our project (1st step)

L) Ist way to inject react into own project: With the help of CDN. * CDN stands for Content Delivery Network

yue: What is CDN? It's a System of servers located in different parts of would.

Instead of loading resources (like scripts, images or videos)

directly from one server, the content is delivered from the server closet to the user.

Imagine you've at a lest want with a huge menu. If the kitchen is far away, it takes longer to get your food. But if there's a

small kitchen closen by with the most popular dishes heady, you get your food much faster! A CDN is like that small kitchen

* Main Website - Like the main kitchen with all dishas In Shout: * CDN Servers - like small Kitchen with popular dishes

Closer to customers.

* Users - You, waiting for website content

* Fastest Delivery - Gretting your content from the necest CDN server instead of the main website.

Que: Why do we use CDN? Ans - Ly Speed: Content loads faster because it's delinered from a server close to you. Reliability: If one server gets down, another server can take over, so the content is still available. Scalability: A CDN can handle lots of useus at once without slowing down. Que: What is russ ouigin?

Ans Crossovigin is an attribute used in HTML when you're loading resources (like scripts, images etc.) from a different domain (server).

- It tells the becourse to handle requests for these resources especially in terms of security.

So, CDNs help websites load faster, especially for users who are far away from the main server. This makes websites more enjoyable to use and keeps users happy!

```
React CDN Development Links

<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>
```

https://unpkg.com/react@18/umd/react.development.js

Above is the websites where plane js code of react is uploaded, as react is a js library, it is written into js.

https://unpkg.com/react-dom@18/umd/react-dom.development.js

Above is the react DOM library code in js which is useful for DOM (Document Object Model) manipulation.

What is ReactDOM?

ReactDOM is a package in React that provides DOM-specific methods that can be used at the top level of a web app to enable an efficient way of managing DOM elements of the web page. ReactDOM provides the developers with an API containing the various methods to manipulate DOM.

React does not only works on browsers, it also work on phone as react native so there are different types of places where react are used so there are different methods or functions which are being used between different places where react are used such as on browser or on phone.

So that's the reason why we have 2 different links in our CDN, First one is the core react and second one is like a bridge between the react and the Dom of different places where react is being used such as browser or phone.

For using react on phone we have some different functions and same for browser.

What is crossorgin in script tag of react ??

The "crossorigin" attribute is a security measure that allows a script tag to access resources from a different domain than the one where it is loaded. This is useful when working with online APIs or external libraries, as it allows them to be used without having to be served from the same domain.

* Hello Would Code Using React.

Example:-<Script> Content which we 11 1st : Create h1 tag want to write inside Const heading = React. create Element ("h1", 53, "Hello Woyld"),

as any tag is just a paut It contains 3 auguments i.e. It is an object Ci.e. the object is a react element of type 'h1')

H-2nd: Sweate Moot

Const 900t = React DOM. CHEATE Root (document.get Element by Id (root));

as 400t is part = want to sonder owr code. of React DOM

Il Now we have created root for our react library 4": Render heading inside the 400t. Goot · Gender (heading); place where we Code which we want to wonder. want to wender LI scuipt> Note: - React comes with a simple philosophy i.e. Do DOM. manipulation using Js. > In React. create Element () there are 3 arguments in that one augument is Object. [React : Create Element ("hs", 8,3, "Hello Would") This object is the place where we will give "attributes" to own tag Que: What is attribute? suppose we want to give id to the hI tag then we will use attribute i.e. React. cueate Element ("hi") {id: "heading", nyz: "abc"} "Hello Would"); Note: - React Element (Object) -> HTML (Browsey Undowstand) i.e. React element is nothing but a JS object. -> This object will be conveyted into HTML while it get sundey.

→ But to create Element we will not use React create Element, We will use ISX. It will make our life more easier.

1> Thing Topics that are covered in Code Editor. 1st: Queating Nested Elements in React. 2nd: Creating Siblings Ly four creating siblings, we will use away of children 3'd: Suppose there are more than one child.

In for this we also use away of children. * Point to Rember: -> Before handering the component. Suppose there is a h1"
tag inside div. i.e. [Ln1> Kirti is here </h1> Then what will hoppen when we use evender. It will simply replace the content of it. In sender () we can only pass single attribute at a time React can be applied to any one single tag in an HPML. for example: - React can only be used at fotor / Header. i.e. React can wouk independently in a small pourtion of app (That's why it is a library) -> React can work on a single part of HPML also. Note: - We should write code in Sequence only e.g. If we wuite Locuipt sie = ". / Appojs > </script> Then CDN links. Then it will show every "React is not defined".