document -> built-in object in JS

HTML document loaded in current window

HTML content can be accessed and manipulated

createElement, appendChild and etc are document methods

https://unpkg.com/react@18.2.0/umd/react.development.js

This is the CDN link of React Here code of React is written At the end of the day React is Javascript code

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

CDN link for ReactDOM

Why 2 files??

React is core file (it provides the core functionalities to build UI etc) and ReactDom (bridge between React and Browser) is the file that helps in interaction with DOM.

As something ReactNative used for developing mobile apps.

const element = React.createElement('hI', {}, "Namaste React!!!") -> What is this??

This is a React element and a react element at the end of day is a object

But while rendering, the render method converts it into HTML and put it into DOM

KeactDUM.render() or root.render() overwrite the content					

What is Emmet?

- Toolkit for web developers
- Enhance speed and efficiency
- By using shorthand syntax or abbreviations we can generate HTML/CSS structures and code

Difference between a Library and Framework?

- Both written by someone else
- Library functionalities are used when needed
- But when using framework you have to follow comprehensive structures and guidelines while making application
- Library follow "Call" mechanism while Framework follow the "Don't Call Us, We Call You" mechanism
- Library User is incharge of flow of applications
- Framework Framework is incharge of flow

What is CDN? Why do we use it?

- when website host in India -> primary server or data center are situated in India
- when a User access the website then there isn't an intermediate server involved between the user and the primary server (where hosted)

• CDN - Content Delivery Network

• Network of geographically distributed servers which efficiently delivers static content to

users based on their location

• CDN replicate and store cached content

• When user access the website, it directly deliver the content rather fetching it from origin

server

• At first it have to fetch from the origin server

Async and Defer

• Normal: Synchronous behavior, potentially blocking rendering while script loads/executes.

• Async: Non-blocking loading, may interrupt HTML parsing for execution.

• Use when script is independent,

• Defer: Non-blocking loading, executes after parsing and before DOMContentLoaded.

• Use when scripts interacts with DOM and follow execution order

What is crossorigin in script tag?

Used to control how the browser handles fetching and using external script files from different

origins (domains).

What is the difference between React and ReactDOM?

React: Manages components and state for building interfaces.

ReactDOM: Renders React components into the browser's DOM and handles DOM interactions.

What is the difference between react.development.js and react.production.js files via CDN?

react.development.js: Larger file with development aids like warnings and error messages for

debugging during development.

react.production.js: Smaller file optimized for production, lacks development-specific aids for better performance in deployment.