## Chapter-01 ⇒ Inception

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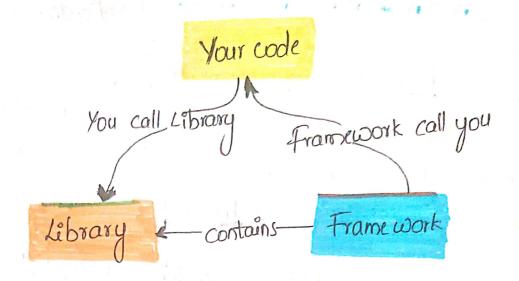
React is a Library (or) Framework?

React is written in Javascript and it is Used to make better JavaScript applications. We refer to React Specially as a library.

What is difference between a library and a -framework?

Both libraries and frameworks are reusable Code written by someone else. Their purpose is to help you solve common problems in easier ways.

Difference between a framework and library lies in term called inversion of control. When you use a library, you are in charge of the application flow. You choose when and Where to call the library. When you use a francework, the framework is in charge of the flow. It provides you with a few places to plug in your code, but it calls the code you plugged in as needed.



Frameworks:

frameworks created by dedicated teams, and ship with everything you needed to build large-Scale applications.

These teams provide official style quides -that follow best practices.

## Libraries:

Libraries focus only on how to use it, which means that the team doesn't support librarie for global state management, like HTTP, routing forms, etc...

And that is a choice, it gives the User the ability of picking libraries that he wants.

That means Using libraries, giving us full

control of our application, you only add what you want, which makes the application smoother.

## 1) What is Emmet?

Emmet is full of Snippets for HTML and CSS Which allow you to write a small line of code that will generate a bunch of HTML or CSS based on the Emmet code you write. It is built into Vscode. and

## index. html code.

Writing Code in html.

<head> 2+9He > Namaste React </title>

Khi> Namaste kaise ho capt log! Z/hi> < body>

<1body>

> Everything happens inside root. Writing Code in JavaScript.

<body> <div id = "root"> </div>

<1body>

We can write the same Hml code in Javascript by Using DOM manipulation We can write our javascript in Scripts This is how we create using Js. < script> document. Create Element ("hi"); </script> ZBER 2 html> > <div id = "root" > </div> <1body> <script> Const heading = document. creat [ "hi"]; heading. Inner+ITML = "Namaste kaise ho aap log! "; Const root = document. getElementById ("root"); root append Child (heading); </script> </html>

Q: Can you tell me that now browser run the above code. How does browser get to know that is document, create Element? That comes from browser APIS. Brower has Is engine. Brower knows about a Window.

Java Script Engine gives us <u>Window.document</u> -functionality. MIK What is CDN? Content Delivery Networks is a network of

Servers that delivers constent to users. Both React and React DOM are available over a CDN. What is inside JavaScript files (CON Links)? It's Basically intense code. But at the end ît's Javascript. This is the javascript Someone else les wrote for us (Fb developers How to inject script tag? 

This indicates that the script should be loaded

What is crossorigin? The crossorigin attribute sets the monde of the request to an HTTP cors Request.

CORS stands for Cross-Origin Resource sharing Cross origin attribute provide support for cors If we serve React-from a CDN, keep (rossorigin attribute Set.

Why There are two files inside React and React DOM?

React is not just limited to browsers. React also works on mobile devices, works on rendering. That There are so many things Whi react has comeup.

For that Regreason These two script files. escript crossorigin src = "https://unpkg.com/react@18/-.. </script>

<Script Crossorigin STC = "https://unpkg.com/react-domé</pre>

react@18 means 18th version, tate This is the latest version of react.

react-dom@18 dom means web version of React. 1st file is core library of React. and tile is the library which gives you access to the document object model.

Const heading = React. create Element ("h1", 23." "Namaste Everyone") React Api We pass 3 argument to this "hi" -> tag what we are going to create. Namaste Everyone" -> What you need to put in What is Peach element? It's an object.

Yout render ( heading); 2 Passing a react element inside the root.

When we pass react element înside render method, This render method. takes react element and modifies our Dom.

render override (Not rendering)

- All applications whether how big it is most of the time will only have One root and one render method.
  - In General practice Developers write <div id = "root"> Not Rendered </div>
  - A If you see Not Rendered in your app mean there's an issue
  - \* Whenever we reload our page It'll take Sometime for react to get installed into our page.

We cannot avoid this ms lag, There are ways we can optimise it to be very less

that user doesnot know.

That user doesnot know.

State will happen if we put script tag

first then CON Links?

we It says Not Rendered. We will get on error: React is not defined.

\* Loading React in a correct order matters a lot.