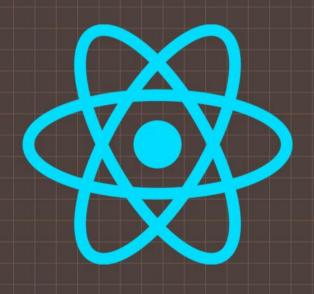
Note Taking

# Namaste React



Khushi Johri Notes



# Episode 1 - Inception

#### What is React?

React is an Open-source Javascript library that is used for creating User Interfaces for Single Page Application (SPA). It is mainly used for handling view layor of any Web or Mobile Application.

#### Apps Used

Browser

- Chrome

Cocle Editor

- VS Coole

#### Create an HTML file in VS Code

- ⇒ Drag-Drop a folder in VS code
   ⇒ Create a file index.html
   ⇒ Use Emmet to create a boiler plate : html 5

#### lays to Add React in our project

#### 1) Using CDN links in Script Tag

CDN → Content Delivery Network, these are Websites where react has been hosted and we are pulling react into our project

Why do we use CDN ? To reduce latency (Delay in network communication). It is that annoying delay you experience when triging to access a web page or video stream before it fully loads.

What is cross origin in this script tag? A cross origin request is a request for a resource (eg: style sheets, iframes, images, font or script ) from another domain.

Who has written this react code? Some developers of Facilook

What happened when we got React into our Project? It gives us alot of different important functions and methods to use in our project.

What are we using 2 CDN links ? First is react development is this is the core of react.

Second is the react-dom.development.js to modify the Dom (Document Object Medul)

Why there are 2 files and not just 1? React works on other devices using React Native in Mobile Phones, React 3D and more.

1st file is the core react and 2nd file is the react-dom file which make a bridge between react and browser.



#### Creating Elements in React



Create Element in React

const heading = React. create Element ("h1", [3, "Hello World")

Content to display inside Element



id: "heading" to give attribute to tag

(onst root = React.DOM. createRoot (document.getElementById ("root"));

To put the element on the DOM We use React DOM library

root render (heading)

React was built to manipulate DOM using Js

Most costly thing is change the down tree on some update in the project

To optimize it React is used to do this using Js.

Import Js in HTML <script src=":/App.js"><|script>

Import CSS in HTML < link sul="stylesheet" heaf="./index.css"/>

What is create Element? What does heading return?
Const heading = React. create Element ("h1",

= React.createElement ("h1", Eid:"heading", xyz:"abc"}, "Hello World from React!"

> attribute

Console.log (heading)

React Element is an object Brops are children + attributes we are passing

root runder (heading)

used to create the <hi> tag and display it in the root

runder is used to convert object into tag

## How to create nested elements in React?

#### React Element (Object) > HTML (Browser Understands)



# How to create sibling elements in React?

To pass siblings we need to pass it in an overay in the children

[React. createElement ("h1", E3, "I'm an hstag"), React. createElement ("h2", E3, "I'm an h2 tag"),

### Will the order of files in HTML file matter?

It will throw an error. The order needs to be in sequence.

When we try to do root. render (...) and if something is already present inside the div tog then root render will replace the child tag inside the div.

It is loaded but within few milliseconds replaced by root, render (parent)

What is the difference between a library and a framework? Library can work in a small part of the app too unlike a framework.

Framework need to be used in a fully fleged app to use them. They can't be used in already existing project.

But react can be used inside your existing project as well.

