**EPISODE 01**

#In Javascript

document.createElement("TAG\_NAME");

TAG\_NAME.setAttribute("ATTR\_PROPERTY","ATTR\_VALUE");

TAG\_NAME.textContent("HELLO WORLD!");

document.appendChild("APPEND\_WE\_CREATED")

#In React

React.createElement("TAG\_NAME",{"ATTR\_PROPERTY":"ATTR\_VALUE"},TEXT,CHILD\_NODE IF REQUIRED);

ReactDOM.createRoot(Where we need to append it)

render it

**EPISODE 02**

#npm init

create a package.json

npm install -D parcel

// parcel webpack vite all bundler using in the npm

Here we are going with parcel

devDependies created

"parcel": "^2.11.0"

^ - upgrade the minor version

~ - major upgrade

To Run

npx parcel index.html

Two package we need to install [Same as CDN URL]

npm install react

npm install react-dom

Error - Browser Script

type="module"

For prduction

npx parcel build index.html

Advantage of parcel

- Dev/Production packing

- Optimization

- Error Handling

- Compress

- Image Optimization

- Loca Server

- HMR HOT MODULE REPLACEMENT

- Caching

- Code Spliting

- Dignostics

- Tree Shaking

- Easy Upgrade

//Remove main in the package.json

**EPISODE 03**

package.json

edited the script

npm run start or npm start both same

npm run build

Browser doesn't understand JSX

Transpiling - JSX to JS [with the help of babel parcel is doing conversion]

//React Element

//Babel

//React Component

-> Class Based - OLD

-> Function Based - NEW

// Ways of declare components

{ELEMENT-COMPONENT}

<FUNCTION-COMPONENT/>

<FUNCTION-COMPONENT></FUNCTION-COMPONENT>

<FUNCTION-COMPONENT()>

**EPISODE 04**

Utilis

useState

Utilis for Data purpose

Default Export => use keyword default

Named Export => Directly in the Elements or function

Default import => Normal way without {}

Named import => use {}

**EPISODE 05**

Utilis for Data purpose

Default Export => use keyword default

Named Export => Directly in the Elements or function

Default import => Normal way without {}

Named import => use {}

Config driven UI

{Place,User configuration}

//Hooks

**WHENEVER THE STATE VARIABLE UPDATES REACT RENDER THE COMPONENTS**

**REACT IS FASTER BCOZ IT'S UPDATE DOM MANIPULATION FASTER** => {Nothing else}

Reconcillation algorthim - React Fiber

**EPISODE 06**

Monolithic vs Microservice architecture

Monolithic - UI/Backend/DB/Authentication all layer in the single environment

Microservice - All sepearte micro services with their own language with own PORT number running

- Micro service communicate each other

----------------

Two approach

- Page Loads -> API Call -> Render

- Page Loads -> Render -> API Call -> Re-Render

React follows 2nd approach

---------------

CORS

---------------

Traditional Method - Spinner

But now

Shimmer UI - Loading Technique

---------------

Conditional Rendering

---------------

Normal Variable vs State Variable

-Normal Variable will not render DOM dynamically

-State Variable does it

**EPISODE 07**

**UseEffect**

1. if we ignore second parameter whenever components render useEffect will called

2. [] - Only one called

3. [dependency] - Depenedency variable change it will be called

**useState**

- Use inside Functional Comp

- Never use inside conditional stmt

- Never use inside for loop

- Be always at top for good pratice

--------------------------

**ROUTER**

npm install react-router-dom

createBrowseRouter

RouterProvide

Outlet

path

element

errorElement

children