

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

devDependencies 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

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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}

Reconciliation algorithm - 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

createBrowserRouter

RouterProvide

Outlet

path

element

errorElement

children

AS REACT