

MERN Day-9 React 2

① Props \Rightarrow Properties that you want to pass to your component from the component call.

```
var Home = (props) => {  
  return(<div>
```

```
    <h1> Home Page </h1>
```

```
    <h2> I'm going pass props in the
```

```
    next tag <h2>
```

```
    <h3> Props is {props} </h3>
```

```
  </div>
```

```
} export default Home;
```

* Props are immutable.

State:

* Is mutable

* Everything in your state will be handled by your component itself.

* If you want to handle/change your state

you are dependent on a hook useState()

* You are dependent on event handling as well.

var [num, setNum] = useState(0);

<h1> Update Num : {num} </h1>

<button onClick = {~~setNum(num+1)~~} > 1 button > No control

infinite loop

Event handling

<button onClick = {() => setNum(num+1)} > 1 button

Props vs State.

- 1) Props are immutable
- 2) Props has no control on the component
- 3) Props should be passed only when the component call is happening.
- 4) Props are passed as object
- 5) Props will not create infinite loop

- 1) State is mutable
- 2) State has control over the component.
- 3) State can be passed inside the component itself
- 4) State are also passed object
- 5) State can create infinite loop if the state function has no control

React Router

React Router

react-router-dom

To be installed

① You

npm ; react-router-dom

② Browser Router → No
↳ Routes → No
↳ Route → path
↳ Route → element

③ Link tag → react-router-dom
⇒ to

Browser Router → react-router-dom
Link →

Navbar.jsx

< Link to="/" >
Home < / Home > Browser Router >

App.jsx

< Browser Router >
Navbar

Navbar.jsx
< Link to="/gallery" > gallery < / gallery > blank page
< Link to="/" > Home < / Home >

<Navbar>
 <Routes>
 <Route path={home}>
 element={<
 home />}>

</Routes>

</BrowserRouter>

<Link>
 </Link> >
 output.
 </main>

Hooks → Functions.
 Hooks → import { useState, useEffect } from 'react';
 ↳ useState
 ↳ ~~useEffect~~
 ↳ useRef
 ↳ useMemo
 ↳ useCallback
 ↳ useReducer
 ↳ custom hooks

useEffect: → It is called a side effect hook.
Syntax: useEffect (Anonymous Function, dependency).

Day - 10

useEffect with API

API → GET, POST, PUT, PATCH, UPDATE, DELETE,

fetch ✓

axios ✓

It is a package present in
your npm → node package
manager.

npm i axios

useRef: It is helpful for storing and fetching
renders.

Previous
Syntax

var value = useRef();

useMemo: It is utilized to store a value in the
cache memory.

* It is used to optimize your Website
(callback, dependency)

Syntax:

var value = useMemo

useCallback: It is utilized to store a complete function
in the cache memory which in turn gives me a
greater optimization in my website/web App.

Syntax

var functionName = useCallback (callback
function, dependency).

Custom Hooks

It is

used to create our own hook by manipulating
hooks.

the pre-defined

HO \hookrightarrow Higher Order Components.

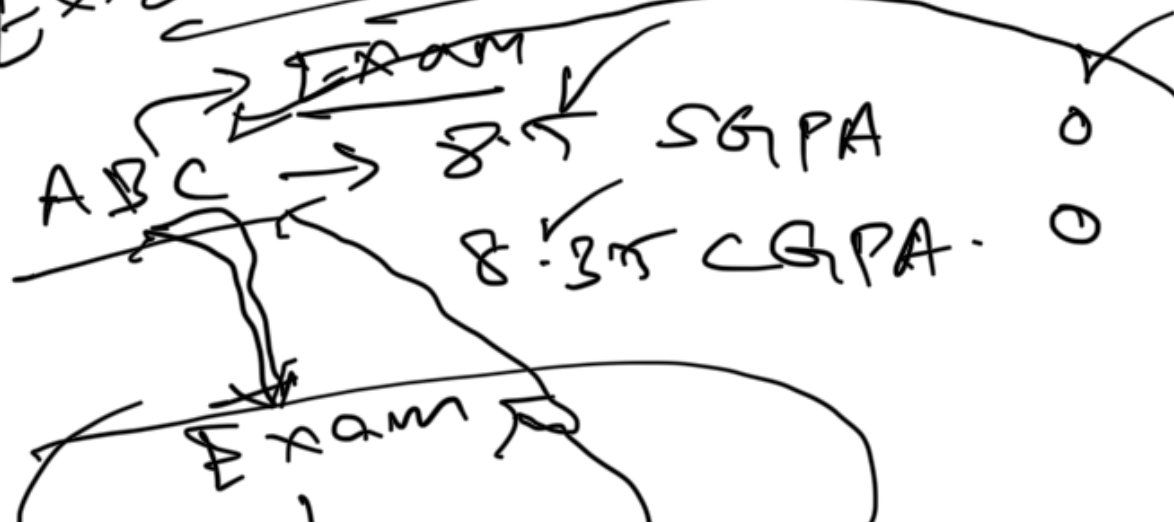
It is a component build upon another component.

Login \rightarrow navigate C

Login \rightarrow Scraping the details.

Props Drilling

Exam Results Publication

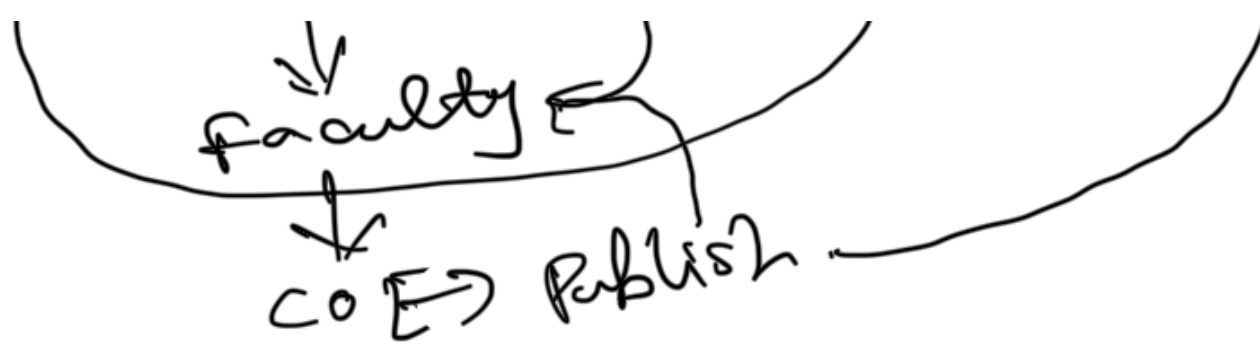


Context API

Student \leftarrow

Exam

Faculty



COE

Post Completed.