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Akshay Saini It takes a lot of efforts to... :)

Anil Kumar K. Namaste react is really awesome; i started many times react, but took a break, after finding namaste react, i felt 100% worth..

Rahul krishna. JI when i say react is but they ask me to write down using only in paper so how should i prepare for interviews since we can create projects but not good in problem solving that is expected from us.

Ironman. when will you launch the next course? We want a next js course. what is your other plans, which topic course will you launch?

sheroth kar. what is pure component? pure function? I'm unable to answer this plz explain sir plz

Anil Kumar K. can you please share your notebook, which your writing now..

Rajesh K. Sad for people who think it's LIVE

Digital Alchemist. lol it literally says permie ❤️

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ENG IN 21:19 22-12-2023

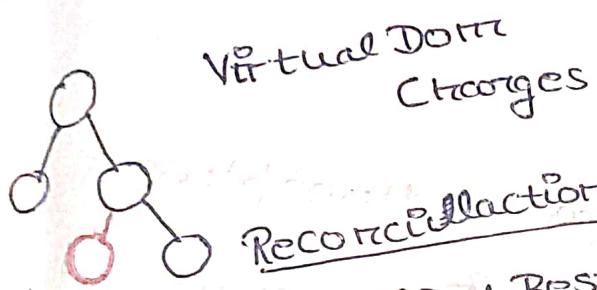
What is Virtual Dom?

⇒ It's light copy of actual Dom

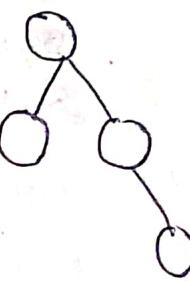
* manipulation of actual Dom is slow But Virtual Dom is Fast

How Virtual Dom works?

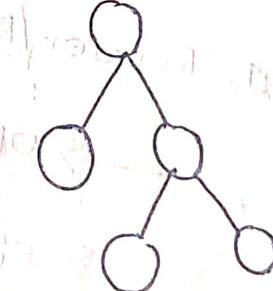
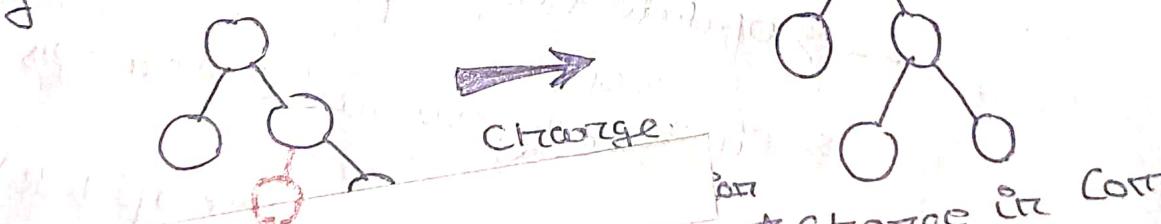
⇒ whenever there is a change in single Element a Virtual Dom is created



Compare previous Dom



* After they find best possible way to update get render ~~page~~ of all.



* Change in Component State

* Problem with old Recomputation

For heavy updates like CSS Animation backward

Compatible [slow data process]

Browser got stuck in b/w

Q What is React fiber?

⇒ It improved previous performance & It's basically an internal Engine change geared to make React faster & steeper.

fiber Internal Engine provide info update

⇒ Low priority

⇒ High priority

Q How React fiber works?

React fiber work in two phase or three phase

phase 1. Render/Recalculation [Component will update]

→ Update the progressive

work

→ fiber → figure out the changes

phase 2. Commit rather than (Layer update)

⇒ Component will update

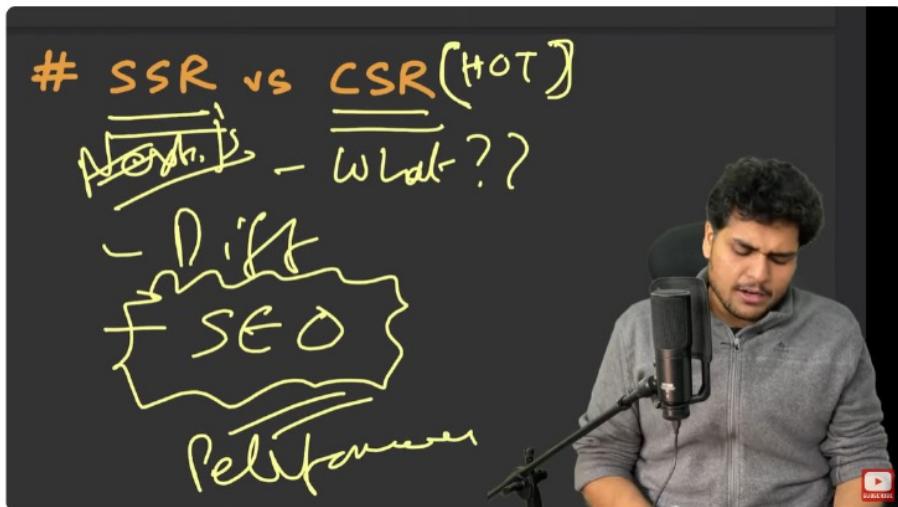
⇒ Component did mount

phase 3. for large update

use Error boundary again phase 1 & phase 2 error boundaries
Handler Hook boundaries

⇒ Component did mount

⇒ Component will update.



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| User | Message |
|-------------------|---|
| Akshay Saini | It takes a lot of efforts to... |
| Anil Kumar K. | Nameste react is really awesome, i started many times react, but took a break, after finding nameste react, I felt 1000% worth. |
| Rahul Krishna | ji when I say react.js but they ask me to write down using only in paper so how should I prepare for interviews since we can create projects but not good in problem solving that is expected from us |
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| Digital Alchemist | lol it literally says permire |
| CSE | future of Web Technology due To AI?? |

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What is Server Side Rendering & Client Side Rendering?

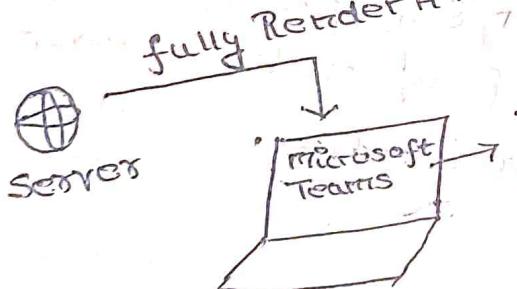
SSR

- * Server \Rightarrow generate HTML
- \Rightarrow including \Rightarrow Dynamic Data
- \downarrow
- * The client \Rightarrow Display page
- \downarrow
- \Rightarrow without any further processing

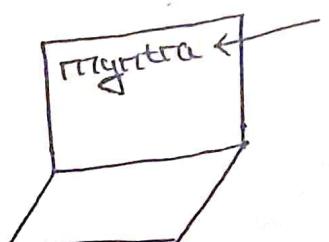
CSR

- * Server \Rightarrow only sends the initial page (HTML page)
- \downarrow
- The client \Rightarrow Java script to update the page
- This allows more interactivity
- \Rightarrow responsive web

Working of SSR \Rightarrow When user requests a page, the server generates HTML for the page including any dynamic data.



Working CSR \Rightarrow Server only sends Initial page along with only required JS file



Without reload it can update entire page

Q What is Next.js?

⇒ It's Based on react.js library
But many extra features were added
in the Next.js

- Like ⇒ Routing / middleware
- ⇒ Styling / Data fetching
- ⇒ ReRendering
- ⇒ Optimization

Q How Next.js improve SEO & performance?

* Next.js automatically split up JavaScript code
into smaller - smaller bundles for each page.

Youtube video player showing a video titled '# Higher Order Components' by Akshay Saini. The video content includes a list of questions: - What? - Why? - When? - How?. The video is in progress, labeled as a premiere. The YouTube interface shows various stats like 209 views, 347 watching now, and a link to 'How He Got Hired as Frontend Developer JUST IN 10 MONTHS'. The video is set against a background of a person speaking into a microphone.

Higher Order Components

- What?
- Why?
- When?
- How?

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Akshay Saini It takes a lot of efforts to...
Akash Kumar Patel yes, I have seen
Anson Dsouza very true 🌟🌟🌟 100 life cycle methods in react 🚀🚀

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Priyanshu Sharma bhai Mern kar liya Abhi tak Facebook se call ni aya Recruitment ka 😊
Anil Kumar K. Tough part is designing phase, either css or tailwind
Learn Code With TechSociety TechSini I have used today bhaiya
Learn Code With TechSociety TechSini zusta ❤️ is awesome

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Q What is Higher Order Component?

⇒ A higher order component is function that takes a function 1st & return new component from it

Q Why to use HOC?

- ⇒ Reusability → Reuse component logic across multiple
- ⇒ flexibility → Customize the behaviour.
- ⇒ separation → Code In encapsulation [certain functionality]
- ⇒ composition → to create more complex functionality
- ⇒

Q Where to use

- * Authentication
- * Logging
- * Styling & theming

Q What is fetch?

⇒ fetch() method starts the process of resources from External Environment (Server)

Syntax:-

fetch('URL')

How fetch work?

⇒ It gives promise

promise → State ⇒ fullfilled
Result ⇒ fullfilled

Gives resource object body is Readable Stream

JSON() ⇒ Convert to JSON

For example

const d = await fetch('URL')

await d.JSON()

Q What is axios?

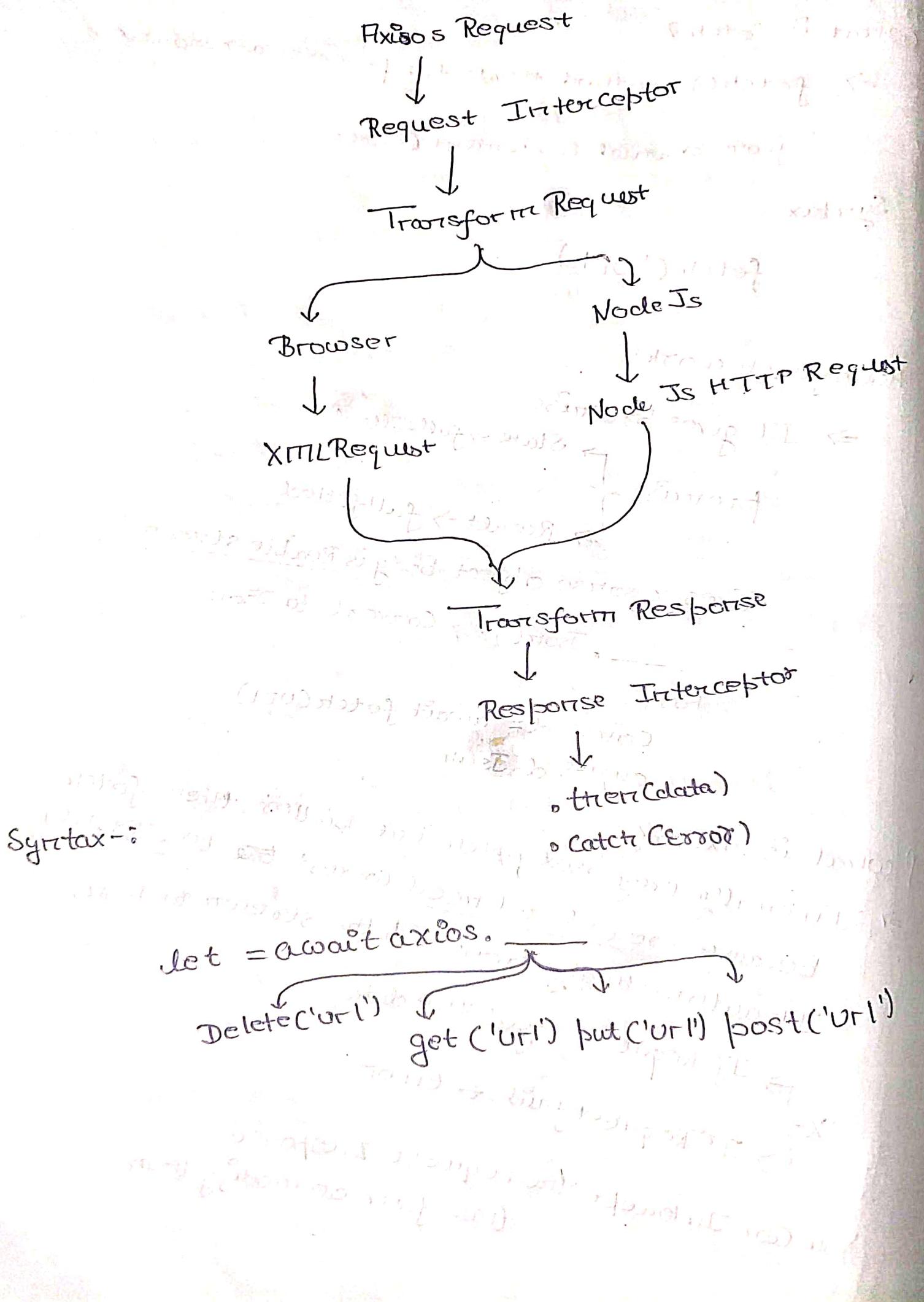
⇒ Internally they uses fetch but better than fetch because we did not need convert ~~to~~ to JSON()

It automatically converted the stream to JSON.

If Request → get the data

X If Request fail → ERROR

You can Intercept the request & response transform or modify them.



#Hooks

- useState
- useEffect
- useContext
- useReducer
- useMemo
- useCallback
- useLayoutEffect

my dear friends that this seven hooks are not the only hooks there are

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Answers

Q1. What is Hooks?

Answer

⇒ Hooks are JavaScript functions
that manage state's behaviour
that manages Side Effects by isolating them
in Component

Q2. What is Pure function?

Answer ⇒ function without any side effect

Q3. What is use State Hooks?

Answer

⇒ What is State?
⇒ State allows us to manage changes by tracking Data.

so, Use State ⇒ Handling & managing state in your application

Syntax -

Variable [state, setState] = useState(critical value)

Q4. What is use Reducer Hook?

Answer

⇒ useReducer is similar to useState hook that allows for custom state hooks.

⇒ If you find yourself keeping track of multiple records & complex logic

• Body.js - food - Visual Studio Code

```
JS Footer.js U .gitignore U README U # index.css U JS contants.js U JS Body.js U ...
```

src > components > JS Body.js > ...

```
3 import { RestaurantList } from "../contants";
4 function filterdata (searchText,restaurants){
5
6   const filterData = restaurants.filter((restaurant) =>
7     restaurant.data.name.includes(searchText)
8   );
9   return filterData;
10 }
11
12 const Body = () =>{
13   const [restaurants,setRestaurants] = useState(restaurantsList);
14   const [searchText,setSearchText] = useState(""); //returns array = [variable name , function to update the variable]
15   ;//returns array = [variable name ,function to update the variable]
16
17   return (
18     <>
19       <div className="search-container">
20         <input
21           type="text"
22           className="search-input"
23           placeholder="search"
24           value={searchText}
25           onChange={(e)=>{
26             setSearchText(e.target.value);
27           }}
28         />
29         <button
30           className="search-bt"
31           onClick = {()=>{
32             const data =filterdata(searchText,restaurants);
33             setRestaurants(data);
34           }
35         }>
36           Search
37         </button>
38       </div>
39     </>
40   );
41 }
```

13:31 07-2023

page -1

The Brooklyn Creamery - H Search

The Brooklyn Creamery - Healthy Ice Cream

Desserts, Ice Cream, Healthy Food

althan bhatar

useState to filter the restaurant

Syntax :-

const [state

dispatch] = useReducer(reducer,
initialArgs, init);

Answer

Syntax :-

const [state, dispatch] = useReducer(reducer,
initialArgs, init);

* reducer :- It's the user defined function that
maps current state with dispatch method
to handle the state

* initialArgs :- initial Argument

* init :- is the function to initialize the state lazily

Qs. What is useEffect Hook?

Answer

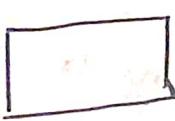
useEffect is function that lets us interact
with outside world but not affect the
rendering & performance of the component.

Syntax :-

Normal :-

Loads \Rightarrow API \Rightarrow render page
(300ms) (500ms)

But By useEffect :-

Loads \Rightarrow  \Rightarrow API \Rightarrow update the page
300ms \Rightarrow 100ms

page -2

useEffect -> to fetch the api

The screenshot shows a developer's environment with multiple windows open:

- Visual Studio Code (Left):** Displays the file `Body.js` containing React code. A callout bubble points to the `useEffect` hook at line 18, which is annotated with the text "useEffect -> to fetch the api".
- Chrome Developer Tools (Center):** Shows the "Network" tab with a list of API requests, including one to "https://www.swiggy.com/dapi/restaurants/list/v5?lat=12.9351929&lng=77.62448069999999&page_type=DESKTOP_WEB_LISTING".
- Browser Preview (Right):** Shows a React application titled "Nameste React" with a search bar and two food images (a burger and a pizza). The browser address bar shows `localhost:65007`.
- System Tray (Bottom):** Shows weather information (30°C, Mostly cloudy), system icons, and a notification for "Prettier" (Port 5500).

page - 2

clearInterval

minimized the side effect

componentunmount

```
File Edit Selection View Go ... ← → ⌂ namesteyoutube
JS ViedoCard.js JS ViedoCard1.js JS demo2.js ● App.css tailwind.config.js ...
src > components > JS demo2.js > [!] Demo2 > useEffect() callback
1 import React, { useEffect, useRef, useState } from 'react'
2
3 const Demo2 = () => {
4   useEffect(() => {
5     const i = setInterval(() => {
6       console.log('Nameste React', Math.random())
7     }, 1000)
8     return () => clearInterval(i)
9   }, [])
10  const [y, setY] = useState(0)
11  let ref = useRef(0)
12  let x = 0
13  return (
14    <div className='m-4 p-2 bg-slate-50 border border-black h-96 w-96'>
15      <div>
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

Local: http://localhost:3000
On Your Network: http://192.168.1.39:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled successfully

14°C Smoke

Search

ENG IN 19:55 07-01-2024

For Ex-^o setup function
 Syntax-^o ↓ ↓
 useEffect (c) ⇒ {}, []

case 1 without Dependencies ⇒

For Ex-^o

```
useEffect (c) ⇒ {
  console.log ("useEffect")
}
console.log c ("render");
```

case 2-^o with Empty Dependencies ⇒ Render Only Once
ComponentDidMount

For Ex-^o

```
useEffect (c) ⇒ {
  console.log ("render")
```

{, []}

console.log ("render");

Metric

case 3-^o with Depend on variable ⇒ ComponentDidUpdate

For Ex-^o useEffect (c) ⇒ {
 console.log ("render")

{, [button]}

Depend upon
variable.

Important
**

For Fetch the api use `useEffect`

useEffect (c) ⇒ {

callfunction()

callfunction
to get api

Q6

Use Context Hook?

⇒ React context to manage state globally

It's designed to share the data global that can be considered as global Data for a tree of React

Syntax:-

```
const auth = useAuthContextValue();
```

Case-4

Side Effect of useEffect?

⇒ If you have a countdown timer function that will need stop by clearInterval function using the setInterval

Component will vanish

```
useEffect(() => {
```

```
    return () => {
```

```
        console.log("Removed")
```

}

}, [])

⇒ Implemented websocket clearing

⇒ Debugging concept

What is use memo?

⇒ use memo is a React hook that let you cache the result between re-render.

Syntax:

const CacheValue = usememo(CalculateValue, dependencies)

What is memoization?

⇒ when we don't need to recompute the function with a given argument for the next time it returns its cache to avoid expensive calculation.

⇒ use memo is helpful to avoid expensive calculation on every render when they return value is not going to change.

Q What is use callback?

use callback is a React hook that let you cache a function definition b/w renders.

Syntax:

const memoizedCallback = usecallback()

() => {

do something (a, b)'

},

[a, b],

};

Page - 3

```
src > components > JS Demo.js > [o] Demo > [o] prime
1 import { useMemo, useState } from "react";
2 import { findPrime } from "../utils/helper";
3 const Demo = () => {
4   const [text, setText] = useState(0);
5   const [isDarkTheme, setIsDarkTheme] = useState
6     (false);
7   console.log("RENDERING....")
8   // const prime = findPrime(text);
9   const prime = useMemo(() => findPrime(text),
10     [text]);
11
12   return (
13     <div
14       className={
```

```
src > components > JS Demo.js > [o] Demo > [o] prime
28
29
30
31
32
33
34
35
36
37
38
39
```

not a function any more

useMemo()

it caches the result

Local: http://localhost:3000
On Your Network: http://192.168.1.39:3000

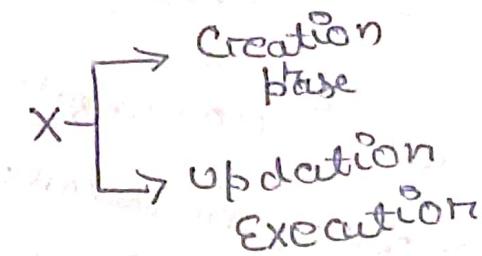
t optimized.
run build

What is useRef

useReact is a react hook that you reference
value that not need for rendering

problem with

- * let variable $\leftarrow \dots$ is that they new JS context is create has initial once again



once again.

- * problem with useState Render phase once again

** not like $\Rightarrow \text{ref} = 0$

** $\text{ref} = \{\text{current}\}$

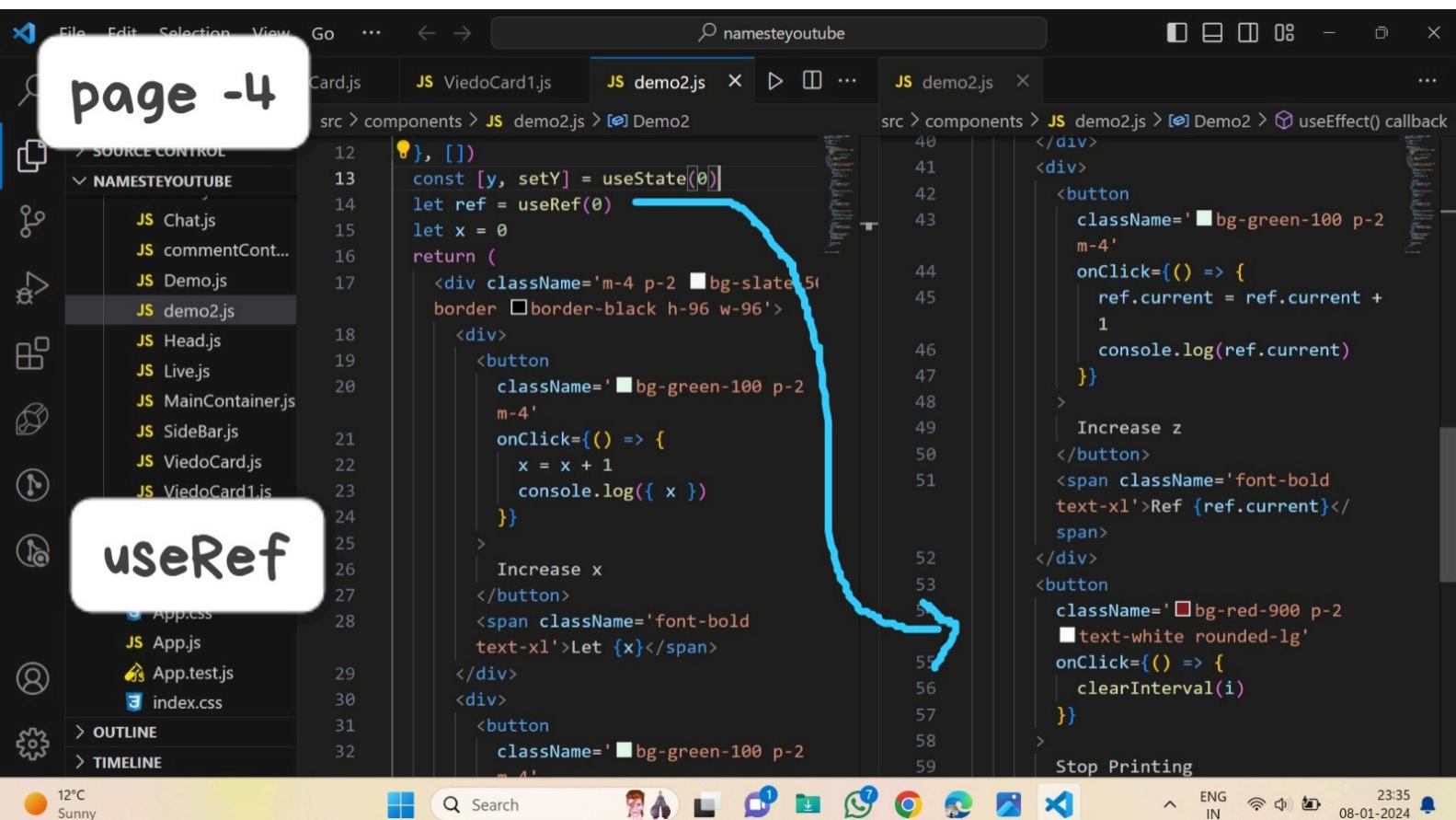
*

*

*

*

**



page - 4

Home
Shorts
Videos
Live
Watch Later
Music

Toggle

0

nth Prime :

Increase x Let 0

Increase y state 1

Increase z Ref 3

render cache the result

reinitialize

let reinitialize the code

RENDERING....

API CALL-

4 > {x: 1}

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19:45 07-01-2024

Custom Hooks

- When ??

- Code =

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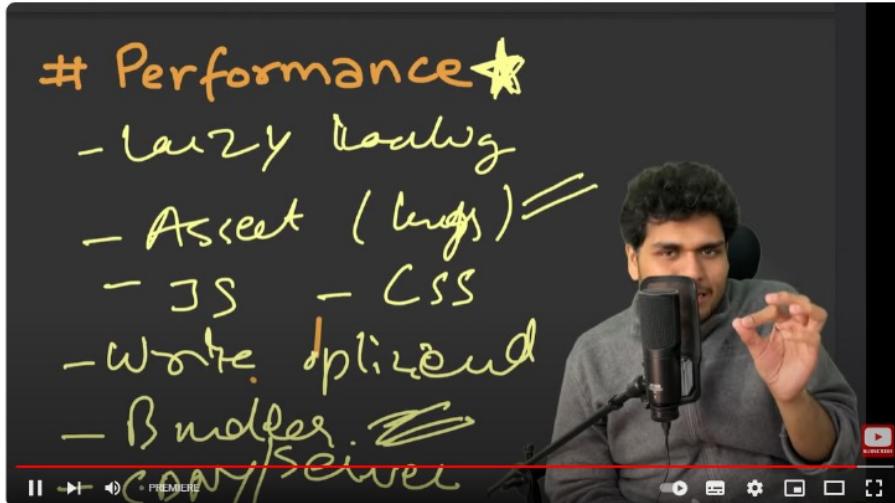
Akshay Saini It takes a lot of efforts to...
Anil Kumar K. I rough plan in designing places, either css or tailwind
Learn Code With TechSociety TechSimu I have used today bhaiya
Learn Code With TechSociety TechSimu Zustand is awesome
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- Bhavika Rathod using generic functions/components
- Trained Fresher sir, how much html css javascript and react is required to getting placed
- Adarsh Kumar Patel I only write modular code
- Arghya Saha What should we know about testing as a fresher
- Rohit Sharma shimmer effect
- Suraj Gupta skeleton
- Arghya Saha skeleton
- Satyasenan Sir, we need logical problem solving coding practise series, so that we can learn approach to solve live coding round and can do better in real project also.
- Arghya Saha how to optimize images?
- Ravi Tiwari @Akshay Saini 😊 I am waiting for Data Structures series 😊 😊 ❤️

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Q What is Custom Hook?

Hooks are reusable utilities

⇒ When the component logic need to used to multiple time then we can extract that logic to a custom hook.

Custom hook start with "use" ↪ In a file Note.

Custom hook is chunking, Code Splitting, Dynamic Bundling ? OR

Q What is Lazy Loading?

⇒ It's basically a component or a part of code that get loaded where it's required.

Train * Small Bundle like
Business → payment ⇒ majority of API payment
But Bus tickets / Aeroplane tickets.

After Business → But Bus tickets / Aeroplane tickets.
'part'

⇒ On Demand loading

const AirTicket = lazy(() => import());

Q What is Suspense?

It's basically a loading indicator of the component is being fetched.

<Suspense fallback={<h1> Thankyou </h1>}>
<AirTicket/></Suspense>

```
  }callback ---> it will called whenever my useeffect call
useEffect(()=>{
  // API Call
  getRestaurants();
},[]);//[]---->dependence array

async function getRestaurants(){
  const data=await fetch(
    "https://www.swiggy.com/dapi/restaurants/list/vs?
lat=28.603282&long=-77.1932095&
is-seo-homepage-enabled=true&
page-type=DESKTOP_WB_LISTING"
  );
  const json=await data.json();
  console.log(json);
  //Optional Chaining
  setAllRestaurants(json?.data?.cards[2]?.card?.card?.?
gridElements?.infoWithStyle?.restaurants);
  setFilteredRestaurants(json?.data?.cards[2]?.card?.?
card?.gridElements?.infoWithStyle?.restaurants);
}

console.log("render");

//conditional rendering
// if(!allRestaurants) return null;
// if(filteredRestaurants?.length==0)
// return <h1>No restaurants match yours filter</h1>
const offline =useOnline();
if(offline){
  return <h1>●●●●● Offline,please check your
internet connection</h1>
}
return allRestaurants?.length ===0 ? <Shimmer/> :(

```

Visual Studio Code

```
src/utils > js useOnline.js > [e] useOnline > ↗ useEffect(callback) > ↗ window.addEventListener("offline") callback
import { useEffect, useState } from "react";

const useOnline=(()=>{
    const [isOnline, setIsOnline]=useState(true);

    useEffect(()=>{
        window.addEventListener("online", ()=>{
            setIsOnline(true);
        });
    });

    window.addEventListener("offline", ()=>{
        |   setIsOnline(false);
    });
}, []);

return isOnline//return
});

export default useOnline;
```

The screenshot shows a tooltip for the 'useEffect' parameter in the code. The tooltip lists several global event objects: 'false', 'FontFaceSetLoadEvent', 'FilesystemWritableFileStream', 'FinalizationRegistry', and 'CSSFontFeatureValuesRule'. The 'false' entry is highlighted.

this whole thing is custom hook

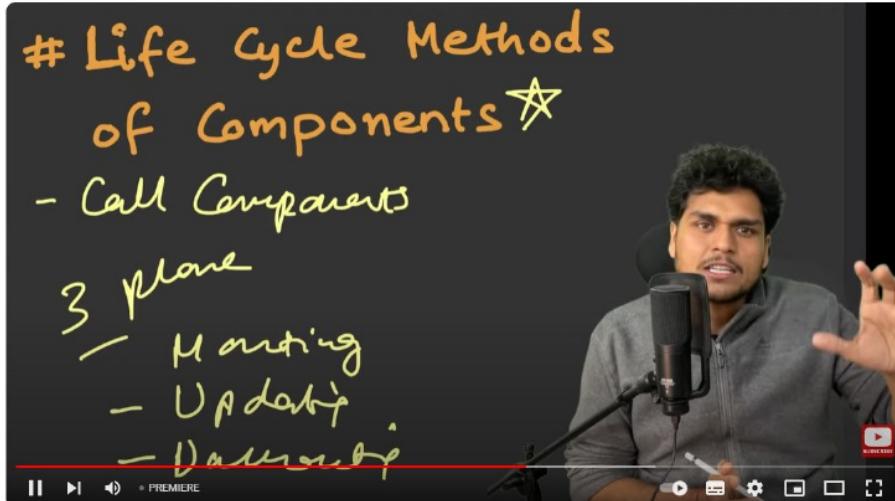
custom hook

Lazy Loading

```
26 //Upon demand Loading --> Upon render -->suspend Loading
27 const About=lazy(()=>import("./components/About"));
28
29
30
31 const AppLayout = ()=>{
32
33     return (
34         <>
35             <Header />
36             <Outlet />
37             <Footer></Footer>
38         </>
39     );
40 }
41 };
42
43 const appRouter = createBrowserRouter([
44     {
45         path: "/",
46         element: <AppLayout />,
47         errorElement: <Error />,
48         children: [
49             {
50                 path: "/",
51                 element: <Body />,
52             },
53
54
55             {
56                 path: "about", //parentPath/{path} ---->localhost:1234/about
57                 element: <Suspense fallback={<h1>loading.....</h1>}><About /></Suspense>,
58                 children: [
59                     {
60                         path: "profile", //parentPath/{path} ---->localhost:1234/about/profile
61                         // path: "/profile", //parentPath/{path} ---->localhost:1234/profile
62                     }
63                 ]
64             }
65         ]
66     }
67 ])
```

You,





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Takis in real time. Remember to guard your privacy and abide by our Community Guidelines.
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Priyanshu Sharma bhai Mern kar liya Abhi tak Facebook se call ni aya Recruitment ka 😊
Anil Kumar K. Tough part is designing phase, either csa or tailwind
Learn Code With TechSociety TechSini I have used today bhaiya
Learn Code With TechSociety TechSini Zustand is awesome
Anil Kumar K. Namaste react is really awesome, i started many times react, but took a break, after finding namaste react, i felt 100% worth..
Rahul krishna Ji when i say react.js but they ask me to write down using only in paper so how should i prepare for interviews since we can create projects but not good in problem solvin. ❤️ that is expected from us

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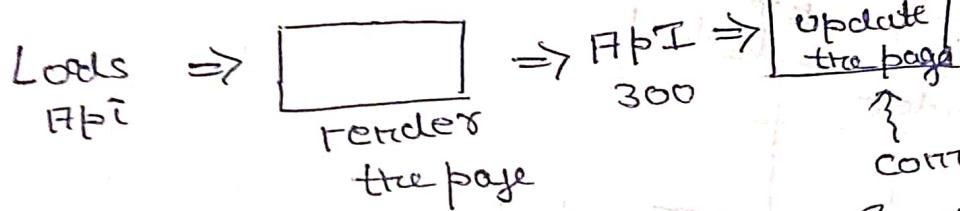
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life cycle method of component

Q What is Component Did mount?

Just like use Effect Hook Component Did mount
is React hook used for set up the network request

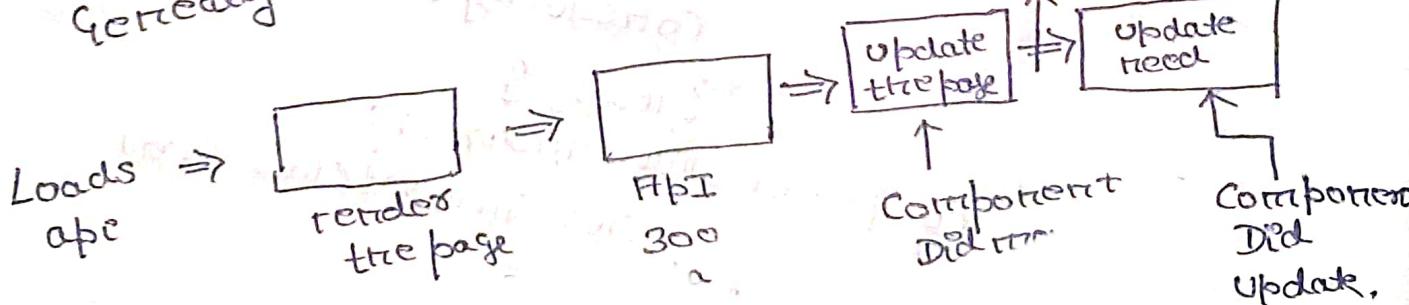


Important point to note we have to write
syntax `async ComponentDidMount()`
const data = await fetch('url')

Component Did update? await data.json()

This method is used during the updating phase
of React cycle
Generally known as Before component is update.

If-Else



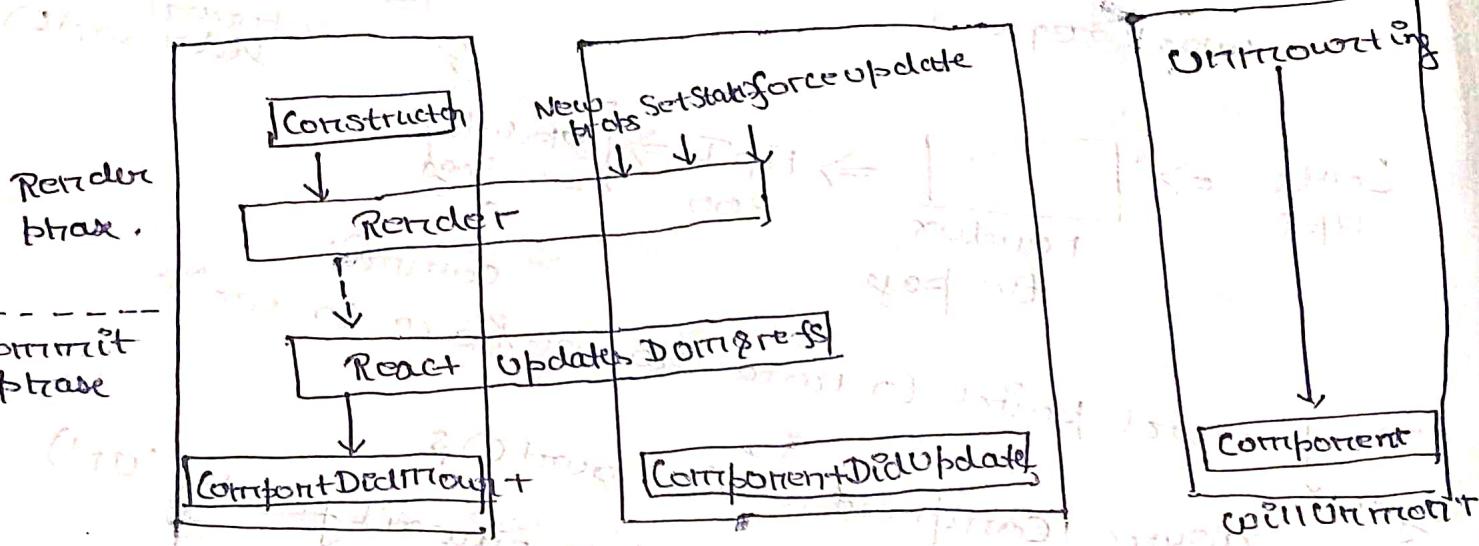
Q Component Did update? useEffect?

useEffect(() => {

}, [count1, count2])

Q What is component will Unmount?

When we want to Destroy the component
or Unmount from the DOM.



For

```
Ex - ComponentDidMount() {
    this.timer = setInterval(() => {
        console.log("CMD");
    }, 1000);
}

ComponentWillUnmount() {
    clearInterval(this.timer);
}
```

A screenshot of Visual Studio Code showing a file named `profileclass.js` in the `src/components` directory. The code defines a class with several methods:

```
24
25
26
27
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29
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31
32
33
34
35
36
37
38
39
40
41
42
```

```
};
```

```
componentDidMount(){
    this.timer=setInterval(()=>{
        console.log("componentDidMONUNT")
    },1000);
}
```

```
componentWillUnmount(){
    clearInterval(this.timer)
    console.log("componentWillUnmount")
}
render(){
    const {count}=this.state;
    console.log("Child-render"+this.props.name);

    // console.log("Child-render");
    return(

```

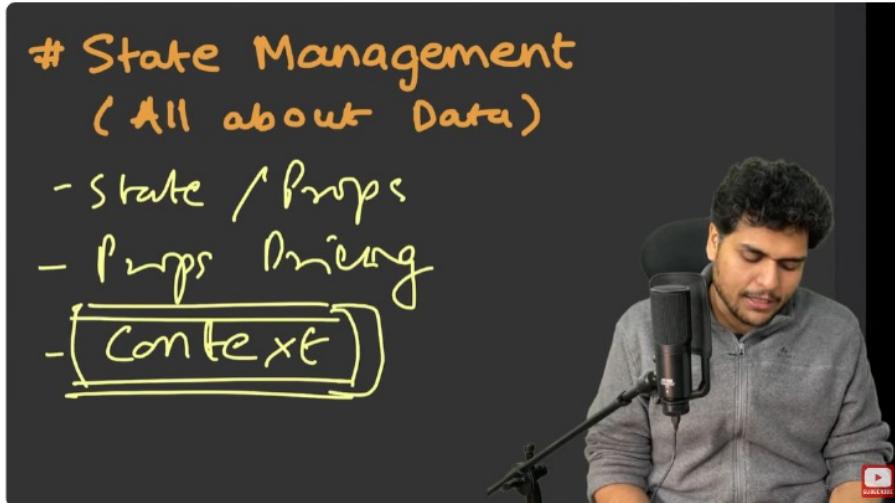
The code editor has two large callout boxes with arrows pointing to specific parts of the code. One box, labeled "componentdidMount", points to the `componentDidMount` method. Another box, labeled "componentUnMount", points to the `componentWillUnmount` method.

Below the code editor, the terminal shows the command line output of a Node.js application:

```
PS C:\Users\ASUS\Desktop\namestereact\food> npm
> inception@1.0.0 start
> parcel index.html

Server running at http://localhost:1234
Built in 48ms
```

At the bottom of the screen, there are various system icons and status bars, including a weather icon showing 35°C Haze, a search bar, and a date/time stamp of 06-08-2023 16:45.



Top chat ▾

Akshay Saini It takes a lot of efforts to... Learn more

Priyanshu Sharma bhai Mern kar lya.Abhi tak Facebook se call ni aya Recruitment ka 😊

Anil Kumar K. Tough part is designing phase, either css or tailwind

Learn Code With TechSociety TechSims I have used today bhaiya

Learn Code With TechSociety TechSims Zustand is awesome

Anil Kumar K. Namaste react is really awesome, i started many times react, but took a break, after finding namaste react, i felt 100% worth.

Rahul krishna ji when i say react.js but they ask me to write down using only in paper so how should i prepare for interviews since we can create projects but not good in problem solving 😊😊

Ironman when will you launch the next course? We want a next.js course, what is your other plans, which topic course will you launch?

Chat... Hide chat

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What is State Management?

(All about Data)

⇒ state / props

⇒ props Drilling

⇒ Context

q1 what is state & props in

* state is variable that exist inside a component [scope of component]
that cannot access outside the React component
& can be only used inside the component only

* state can be modified ⇒ this.state.

⇒ state is like [scope of function]

⇒ state is like [scope of function]

* props allow us to pass information to a component

q2 what is props Drilling?

⇒ It's Basically a situation where some data

is being sent across every level [due to requirement]

parent



child [parent]



child [needed here]

props drilling

page - 1

```
6 import RestaurantCategory from './RestaurantCategory';
7
8 const RestauarntMenue=()=>{
9     const {resid}=useParams();
10    const dummy="dem";
11
12    const [restataurant, setRestataurant]=useState(null);
13    const [restataurantMen, setRestataurantMen]=useState([[]]);
14
15    const [showindex, setShowindex]=useState([]);
16
17    // const restataurant=useRestaurant(resid);
18
19        //Get data from the api
20    useEffect(()=>{
21        getRestauarntInfo();
22    },[[]]);
23        //return the data from the api
24
25
26    async function getRestauarntInfo(){
```

```
JS RestaurantMenu.js M ●
src > components > JS RestaurantMenu.js
key={index} showItems={index==showindex && true}
setShowindex={()=>setShowindex(index)}
dummy={dummy}/>)
}
export default RestauarntMenue;
```

```
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
```

```
// const itemcategory1='type.googleapis.com/swiggy.presentation.food.v2.ItemCategory'
// const Nesteditemcategory='type.googleapis.com/swiggy.presentation.food.v2.NestedItemCategory'
// console.log(Json.data.cards[2].groupedCard.cardGroupMap.REGULAR.cards.map(x => x.card?.card).filter(x=> x['@type'])
```

value from one component to another

Props drilling

```
src > components > JS RestaurantCategory.js > [x] RestaurantCategory
1 import { useState } from "react";
2 import ItemList from "./Item";
3
4 const RestaurantCategory =({data,showItems,setShowindex,dummy})=>{
5     // const [showItems,setShowItems]=useState(false);
6     // console.log(data);
7     const handleClick=()=>{
8         setShowindex();
9     };
10    return(
11        <div>
12            <div className="w-6/12 mx-auto my-4 bg-gray-50 shadow-lg p-4 ">
13                <div className="flex justify-between cursor-pointer"
14                    onClick={handleClick}>
15                    <span className="font-bold text-lg">{data.title}{data.
16                        itemCards.length}</span>
17                    <span>{"↓"}</span>
18                </div>
19                { showItems && data.itemCards.map((item)=> <ItemList item=
20                    {item.card} key={item.card.info.name}
21                    dummy={dummy} />
22                ) }
23            </div>
24        </div>
25    );
26}
```

```
src > components > JS Item.js > [x] itemList
1 import { IMG_CDN_URL } from
2 ".../contants";
3 const itemList={({item,dummy})=>{
4     console.log({dummy})
5     return <div
6         className="p-2 m-2
7         border-gray-200
8         border-b-2 text-left
9         flex justify-between">
10            <div className="w-9/
11                12 p-2">
12                <h1>{item.
13                    info.name}</
14                    h1>
15                    <span>"₹"
16                    +item.info.
17                    price
18                ?(
19                    item.
20                )
21            </div>
22        </div>
23    );
24}
25
```

one to another to another

The screenshot shows a code editor with two tabs open: `RestaurantCategory.js` and `RestaurantMenu.js`. A callout bubble with the text "useContext" points to the `useContext` hook in the `RestaurantMenu.js` code.

`RestaurantCategory.js` content:

```
You, 46 seconds ago | 2 authors (You and others)
1 import { useEffect, useState, useContext } from
"react"
2 import { useParams } from "react-router-dom";
3 import { IMG_CDN_URL, FETCH_MENU_URL } from "../
contants";
4 import Shimmer from "./Shimmer";
5 // import useRestaurant from "../utilis/
userrestaurant";
6 import RestaurantCategory from "./
RestaurantCategory";
7 import loggedUserContext from "../utilis/
loggedUserContext";
8 import UserContext from "../utilis/UserContext";
9 const RestauarntMenue=()=>{
10   const {resid}=useParams();
11   const {loggedInUser}=useContext
(loggedUserContext);
12   const dummy="dem";
13
14   const [restataurant, setRestataurant]=useState
(null);
15   const [restataurantMen, setRestataurantMen]
=useState([]);
16 }
```

`RestaurantMenu.js` content:

```
<div className="w-6/12 mx-auto my-4 bg-gray-50
shadow-lg p-4" >
  <h2 className="font-bold">
    {restataurant.name}</h2><br><br>
  <h2>{restataurant.city}</h2>
  <h1>{restataurant.areaName}</h1>
  <h3 className="text-right font-bold" >
    {restataurant.avgRating}star</h3>
  <h3 className="font-bold">
    {restataurant.cuisines.join()}-<br>
    {restataurant.costForTwoMessage}</h3>
  <h1>{loggedInUser}</h1>
  <hr></hr>
</div>
<hr></hr>
<hr></hr>
<hr></hr>
<hr></hr>
```

System tray icons include: 23°C Rain showers, Search, File Explorer, Task View, Chat, Facebook, YouTube, Google Chrome, Microsoft Edge, and others. Status bar shows ENG IN, 23:09, and 16-10-2023.

https://www.youtube.com/watch?v=uE925hp9KDk

#Redux/Zustand

- How?
- Why?
- When?

Redux Toolkit (RTK)

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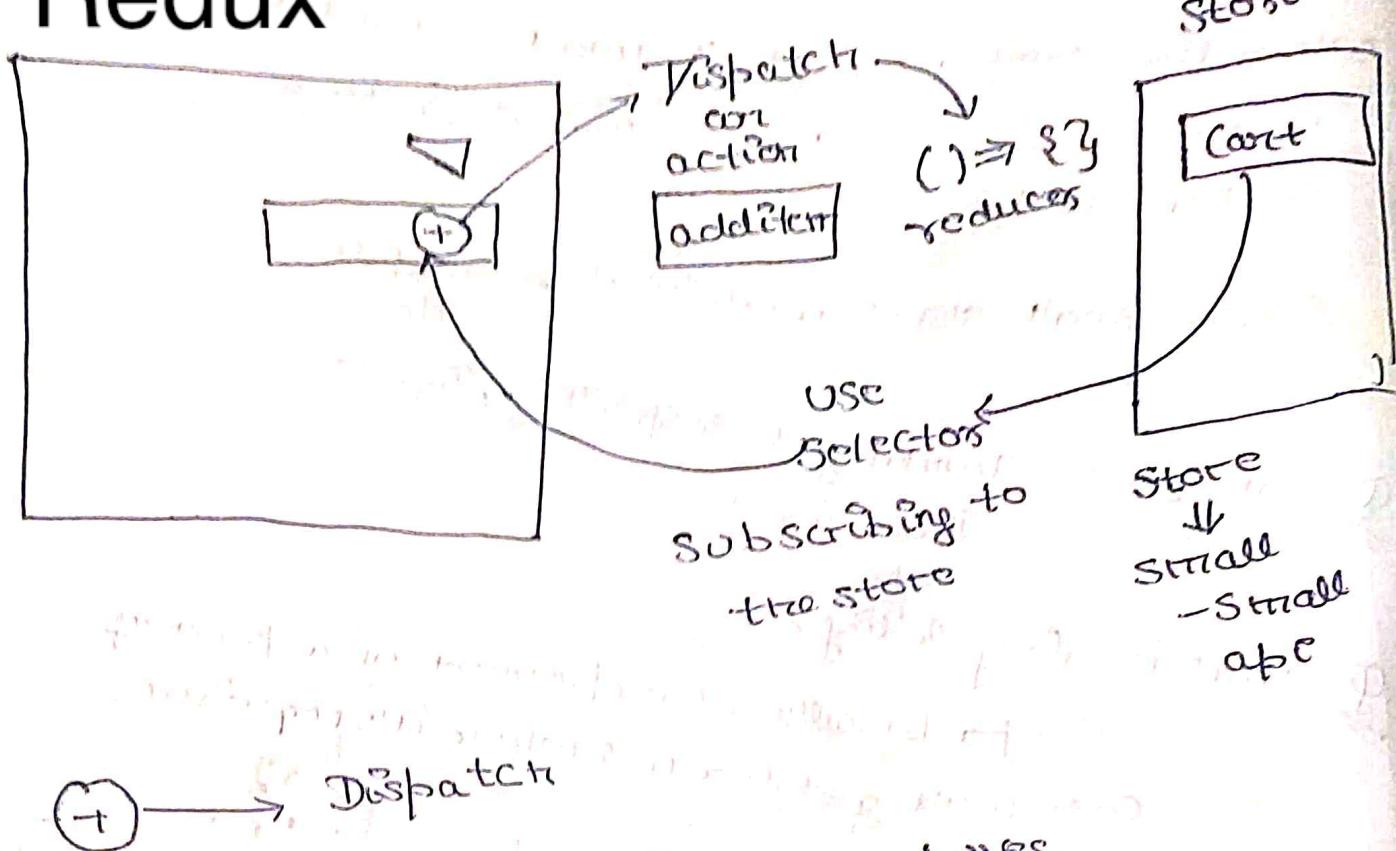
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16°C Smoke

Search

ENG IN 21:16 22-12-2023

Redux



- * Redux is library that helps you pass state of component from one to another
- * Basically It's Big Object in Central place of your application

Redux & Redux + React is different thing in toolkit all

Q What is redux-toolkit?

It's intended way of redux logic
In Redux configure the store is difficult
to be solved.
⇒ I have to add lots of package to do anything useful.
⇒ require too much boilerplate.

It's installation require

- ⇒ Install @redux/toolkit
- ⇒ Build our store
- ⇒ Connect our store to our app
- ⇒ Slice (cartSlice)
- ⇒ dispatcher (action)
- ⇒ Selector

Rememberance

⇒ It's not good where we are subscribing to store in a small-small logic format

1st ⇒ The whole store get disturbed by this

const store = useSelector ((store) => store)

Bad way

const cart = store.cart.items

2nd ⇒ Cart Slice

Two ways } Effects mutate the state
state.items.length = 0;

clearCart: (state, action) => console.log(state);
 current.state
 console.log(state);
 state = []
 console.log(state);

}

This diff

This is ok

CowtSlice.js

11. `mutate the state`
12. `mutate state`
13. `Do not mutate state`

Today { State, items, push(action) } + stack

II Invattilla

Old way { Const new state = [... state];
new state, stems, push (action, payload)
return new state

return new one

page - 1

reducer
function

store.js

click -> dispatch ->reducer->slice

React-Redux

```
JS appStore.js X JS RestaurantInfo.js X JS RestaurantCategory.js X
JS cartSlice.js X
food > src > utils > JS appStore.js > ...
You, 6 hours ago | 1 author (You)
1 import { configureStore } from "@reduxjs/toolkit";
2 // import cartReducer from "./cartSlice1.js";
3 import cartReducer from "./cartSlice";
4
5 const appStore=configureStore({
6   reducer:{
7     cart:cartReducer,
8   },
9 });
10
11 export default appStore;
```

```
JS cartSlice.js X
food > src > utils > JS cartSlice.js > [e] cartSlice > ↗ reducers > [?] clearCart
You, 52 seconds ago | 2 authors (You and others)
1 import { createSlice } from "@reduxjs/toolkit";
2
3 const cartSlice=createSlice({
4   name:'cart',
5   initialState:{ items:[ ] },
6   reducers:{
7     addItem:(state,action)=>{
8       state.items.push(action.payload);
9     },
10    removeItem:(state)=>{
11      state.items.pop();
12    },
13    clearCart:(state)=>{
14      state=[];
15      // state.items.length=0;
16    }
17  });
18
19  export const{addItem,removeItem,clearCart}
20 =cartSlice.actions;
21
22  export default cartSlice.reducer;
```

```
File Edit Selection View Go Run ... ← → ⌘ food ... JS store.js U JS foodapp.js M X
src > JS foodapp.js > ...
19 import {appStore} from "./utilis/appStore";
20 // import { useContext } from "react";
21 // import Instamart from "./components/Instamart";
22
23 //Chunking
24 //Code Splitting
25 //Dynamic Bundling | deveshchhabra, 2 months ago via PR #1 • Chapter - 9
26 //Lazy Loading
27 //Ondemand loading
28 //Dynamic Import
29 const Instamart=lazy(()=>import("./components/Instamart"));
30
31 //Upon demand Loading --> Upon render -->suspend Loading
32 const About=lazy(()=>import("./components/About"));
33
34
35 const AppLayout = ()=>{
36   const [user, setUser]=useState({
37     name:"Nameste React",
38     email:"support@namedestedev.com"
39   });
40
41   // const useEffect=(){
42   //   //Authenticate user
43   //   //set
44   //   ,[]
45   return (
46     <>
47       <Provider store={appStore}>
```

Page - 2

configure the store

Page - 3

```
JS foodapp.js M JS COMMIT_EDITMSG JS appStore.js JS Header.js M JS itemList.js JS Item.js •  
food > src > components > JS Item.js > itemList  
1 | import { useDispatch } from "react-redux";  
2 | import { IMG_CDN_URL } from "../contants";  
3 | import { addItem } from "../utilis/cartSlice1";  
4 | const itemList=(item,dummy)=>[  
5 |   // console.log({dummy})  
6 |  
7 |   const dispatch=useDispatch();  
8 |  
9 |   const handleAddItem=()=>{  
10 |     dispatch(addItem('pizza'))  
11 |   }  
12 |  
13 |   return <div className="p-2 m-2 border-gray-200 border-b-2 text-left flex justify-between">  
14 |  
15 |     <div className="w-9/12 p-2">  
16 |       <h1>{item.info.name}</h1>  
17 |       <span>₹{item.info.price  
18 |         ?( item.info.price/100  
19 |           : (item.info.defaultPrice/100)  
20 |         )</span>  
21 |  
22 |       <p className="text-xs">  
23 |         {item.info.description}  
24 |       </p>  
25 |     </div>  
26 |     <div className="w-3/12 p-4 " >  
27 |       <div className="absolute">  
28 |         <button className="p-2 mx-16 rounded-lg bg-black text-white shadow-lg" onClick={handleAddItem} >  
29 |           Add +  
30 |         </button>  
31 |       </div>
```

click -> dispatch ->

page - 4

click -> dispatch ->reducer->store

useSelector

```
JS foodapp.js M JS COMMIT_EDITMSG JS cartSlice.js JS appStore.js JS cartSlice1.js JS Header.js M JS itemList.js
food > src > components > JS Header.js > ...
25 const [isLoggedIn, setIsLoggedIn] = useState(true); //create to state
26 const isOnline = useOnline();
27 // useEffect(()=>{
28 //   console.log("useEffect+");
29 // },[])
30 // console
31 // const {
32 //   console
33
34
35 // const {user} = useContext(UserContext)
36 const cartItems = useSelector((store) => store.cart.items);
37 console.log(cartItems);
38   return(
39     <div className="flex justify-between bg-pink-100 shadow-lg sm:bg-blue-50 md:bg-yellow-50">
40       <Title />
41       <div className="nav-item">
42         <ul className="flex py-9">
43           <li className="px-3">
44             <Link to="/">
45               Home
46             </Link></li>
47             <li className="px-5"><Link to="/about">About</Link></li>
48             <li className="px-5"><Link to="/Contact">Contact</Link></li>
49             <li className="px-5"><Link to="/instamart">Instamart</Link></li>
50
51           <li className="px-5 text-xl font-bold">Cart-{cartItems.length}</li>
52           <li className="px-5">{loggedInUser}</li>
53
54
29°C Haze
Search
16:29 18-10-2023
```

The screenshot shows a browser window displaying a React application and an adjacent code editor.

Browser View:

- Header:** Home, About, Contact, Instamart, Cart-3, Logout
- Card:** Janakpuri, 4.3 star, Pizzas, Italian - ₹400 for two, Default User
- Text Overlay:** update the ui screen
- Callout:** dispatch
- Bottom Text:** click -> dispatch->useSelector->store

Code Editor (JS Item.js):

```
<div className="w-9/12 p-2">
  <h1>{item.info.name}</h1>
  <span>₹{item.info.price}<br/>{(item.info.price/100)} : {(item.info.defaultPrice/100)}</span>
</div>
<p className="text-xs">{item.info.description}</p>
<div className="w-3/12 p-4">
  <div className="absolute">
    <button className="p-2 mx-16 rounded-lg bg-black text-white shadow-lg" onClick={handleAddItem}>Add +</button>
  </div>
  <img src={IMG_CDN_URL+item.info.imageId} />
</div>
```

System Status Bar:

- 25°C Haze
- Search bar
- Icons for File, Edit, View, Insert, Tools, Help
- Network: ENG IN
- Date: 18-10-2023
- Time: 16:54