

## VIDEO 105

index.html

Readme.md

withoutreact.html

withoutreact.html &gt; html &gt; body &gt; button#btn

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <div id="counter">0</div>
10     <button id="btn">Click me</button>
11     <script>
12         document.getElementById("btn").addEventListener("click", ()=>{
13             let num = parseInt(document.getElementById("counter").innerHTML)
14             document.getElementById("counter").innerHTML = num + 1;
15         })
16     </script>
17 </body>
18 </html>
```





The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar with a tree view of files. A yellow arrow points from the 'with-react' folder icon to the 'withoutreact.html' file tab in the center. The main area displays the code for 'withoutreact.html'. A blue arrow points from the terminal tab at the bottom to the terminal window below. The terminal shows a command being run: 'npx create-react-app with-react'. The output of the command is visible, showing the creation of a new React app named 'with-react' in the specified directory.

EXPLORER ...

VIDEO 105

> with-react index.html Readme.md withoutreact.html

index.html withoutreact.html X Readme.md

withoutreact.html > html > body > button#btn

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <div id="counter">0</div>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node +

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 105> npx create-react-app with-react

Creating a new React app in C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 105\with-react.

Installing packages. This might take a couple of minutes.

Installing react, react-dom, and react-scripts with cra-template...

[.....] \ idealTree:with-react: sill idealTree buildDeps



10°C Fog

Search

Ln 10, Col 39 Spaces: 4 UTF-8 CRLF HTML Port: 3000

ENG IN Sun



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- > src
- !.gitignore
- package-lock.json
- package.json
- README.md

npm package.json X

npm package.json > {} scripts

```
11   "react-scripts": "5.0.1",
12   "web-vitals": "^2.1.4"
13 },
14   ▷ Debug
15   "scripts": {
16     "start": "react-scripts start",
17     "build": "react-scripts build",
18     "test": "react-scripts test",
19     "eject": "react-scripts eject"
20   },
21   "eslintConfig": {
22     "extends": [
23       "react-app"
24     ]
25   }
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell + □ 🗑️ ... ^ X

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 105\with-react> npm start

Ln 15, Col 36 (31 selected) Spaces: 2 UTF-8 LF {} JSON

11°C Fog

Search

Windows Start

Clouds

Calendar

Chrome

VS Code

File Explorer

Terminal

Subtitles

Sun

EXPLORER

WITH-REACT

- > node\_modules
- > public
- > src
- !.gitignore
- package-lock.json
- package.json
- README.md

npm package.json X

npm package.json > {} scripts

```
11   "react-scripts": "5.0.1",
12   "web-vitals": "^2.1.4"
13 },
14   ▷ Debug
15   "scripts": {
16     "start": "react-scripts start",
17     "build": "react-scripts build",
18     "test": "react-scripts test",
19     "eject": "react-scripts eject"
20   },
21   "eslintConfig": {
22     "extends": [
23       "react-app"
24     ]
25   }
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + - X

Compiled successfully!

You can now view **with-react** in the browser.

Local: http://localhost:3000 ←  
On Your Network: http://192.168.1.199:3000

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

webpack compiled **successfully**

YESBANX Earnings

Search

Spaces: 2 UTF-8 LF {} JSON

ENG IN Sun

EXPLORER ...

WITH-REACT

- > node\_modules
- public 
- favicon.ico
- harry.txt
- index.html
- logo192.png
- logo512.png
- manifest.json
- robots.txt
- > src
- .gitignore
- package-lock.json
- package.json
- README.md



Ln 1, Col 10 Spaces: 4 UTF-8 CRLF Plain Text

YESBANX Earnings

Search

Windows Start

Chrome

File Explorer

Terminal

Subscriptions

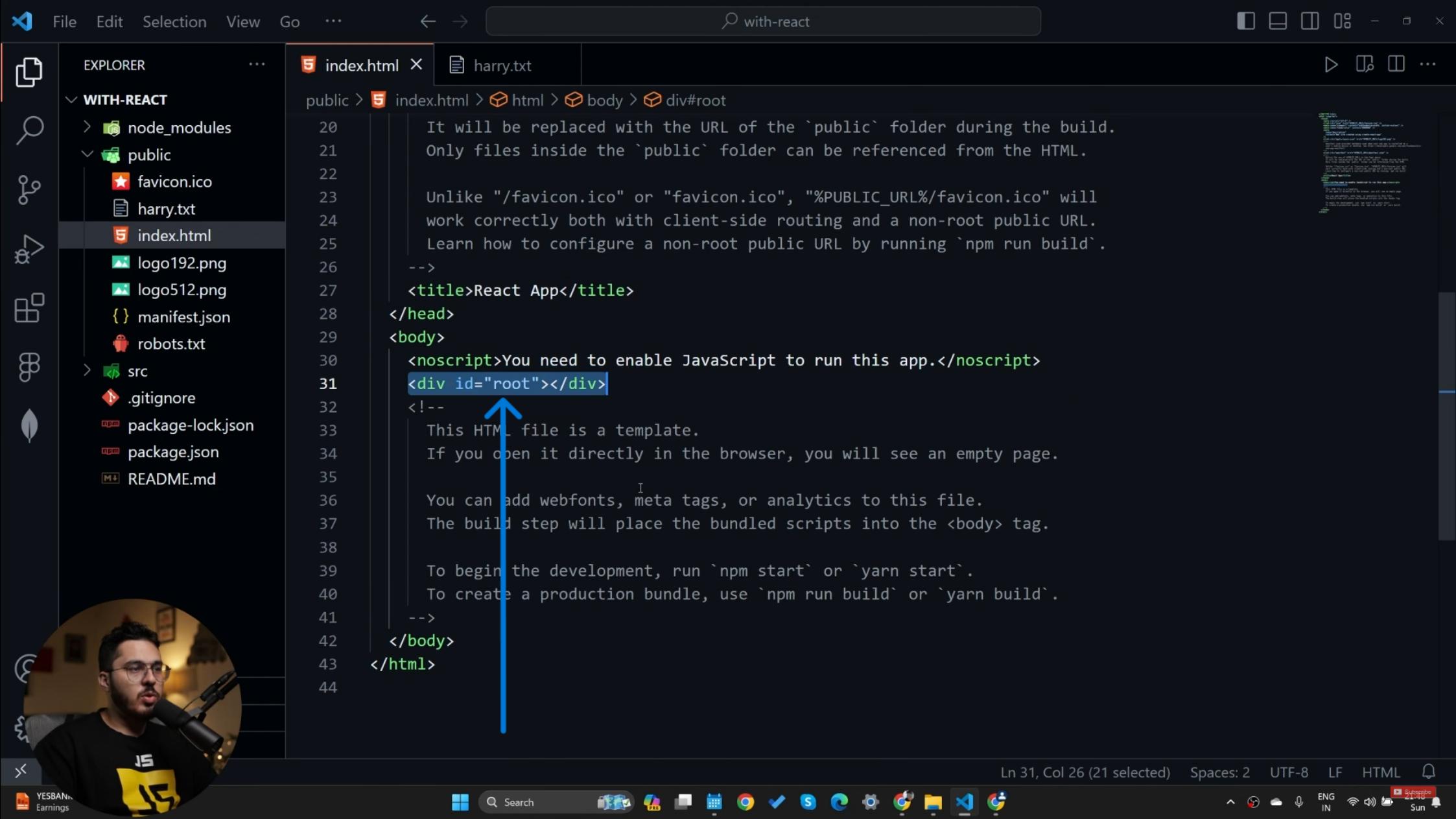
Notifications

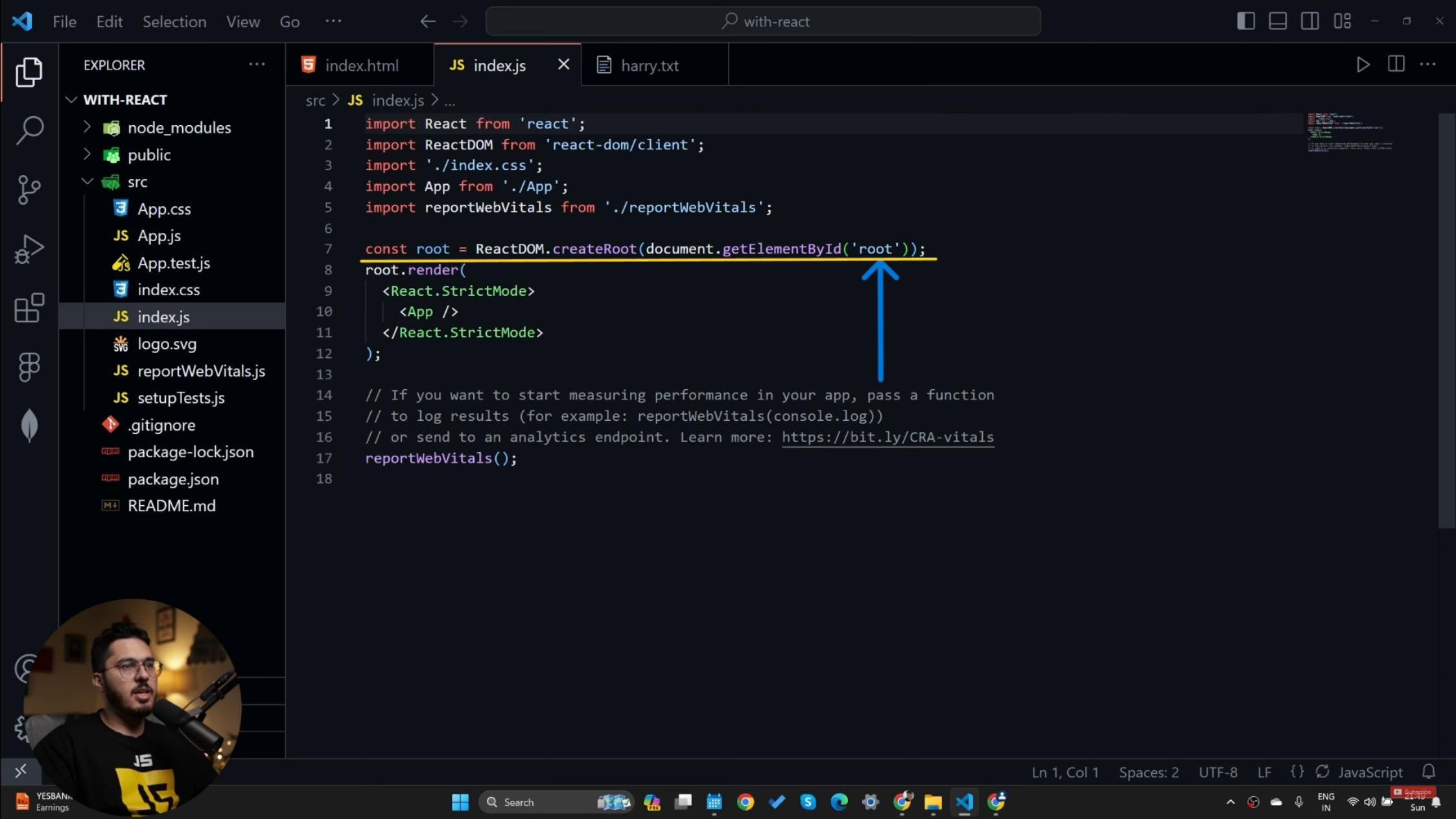
Language: ENG IN

Date: Sun 21-10

Hey harry







File Edit Selection View Go ... ← → ⚡ with-react

EXPLORER WITH-REACT ...

index.html withoutreact.html App.js App.css harry.txt

src > App.js > App

```
1 import logo from './logo.svg';
2 import { useState } from 'react';
3 import "./App.css"
4
5
6 function App() {
7   const [value, setValue] = useState(0)
8
9   return (
10    <div className="App">
11      <div className='value'> {value}</div>
12      <button onClick={()=>{setValue(value + 1)}}>Click me</button>
13    </div>
14  );
15}
16
17 export default App;
```

Ln 10, Col 26 Spaces: 2 UTF-8 LF {} JavaScript JSX

11°C Fog

Search

11°C Fog

```
# Reactjs :  
  
# State: A variable which we can use in the DOM and also can change it.  
=> CODE  
  
import { useState } from 'react';  
  
function App( ) {  
    const [value, setValue] = useState(0) // Here '0' is Default Val  
  
    return (  
        <div className="App"> {value} </div>  
        // Here "className" because "class" is a keyword in Javascript  
    );  
}  
  
export default App;
```

EXTENSIONS ⏪ ...

Search Extensi... ⌂

INSTALLED 16

- Code Runner** ⏪ 40ms  
Run C, C++, Java, JS, PHP...  
Jun Han
- EJS language support**  
2019 - EJS language supp...  
DigitalBrainstem
- ES7 React/Redux/Grap...**  
Simple extensions for Rea...  
rodrigovallades
- ES7+ React/Re...** ⏪ 124ms  
Extensions for React, Rea...  
dsznajder
- Figma for VS Code** ⏪ 54ms  
Bring Figma into the text ...

RECOMMENDED 8



index.html withoutreact.html App.js Extension: ES7+ React/Redux/React-Native snippets Navbar.js

ES7+ React/Redux/React-Native snippets v4.4.3

dsznajder | 10,533,363 | ★★★★★ (72)

Extensions for React, React-Native and Redux in JS/TS with ES7+ syntax. Customizable. Built...

Disable | Uninstall | ⚡

This extension is enabled globally.

DETAILS FEATURE CONTRIBUTIONS CHANGELOG RUNTIME STATUS

## VS Code ES7+ React/Redux/React-Native/JS snippets

JavaScript and React/Redux snippets in ES7+ with Babel plugin features for [VS Code](#)

### Installation

#### Visual Studio Marketplace

Launch Quick Open:

- Linux: Ctrl+P

Categories

Snippets

Extension Resources

Marketplace Repository License dsznajder

More Info

Published 2017-06-08, 00:32:50

11°C Fog

Search

11°C Fog

ENG IN

Sun



EXTENSIONS ⏵ ...

Search Extensi... ⏷

INSTALLED 16

- Code Runner** ⏳ 40ms  
Run C, C++, Java, JS, PHP...  
Jun Han
- EJS language support**  
2019 - EJS language supp...  
DigitalBrainstem
- ES7 React/Redux/Grap...**  
Simple extensions for Rea...  
rodrigovallades
- ES7+ React/Re...** ⏳ 124ms  
Extensions for React, Rea...  
dsznajder
- Figma for VS Code** ⏳ 54ms  
Bring Figma into the text ...

RECOMMENDED 8

- 30.5M te, ... **Install**
- 2.5M ...

Ln 1, Col 6 Spaces: 4 UTF-8 CRLF {} JavaScript

1 rafce

rafce reactArrowFunctionExportComponent  
rafce reactArrowFunctionExportComponent  
[e] ReadableStreamDefaultController

Creates a React Arrow Function Component with ES7 module system (ES7 React/Redux/GraphQL/React-Native snippets)

```
import React from 'react'

const = () => {
  return (
    <div>

    </div>
  )
}

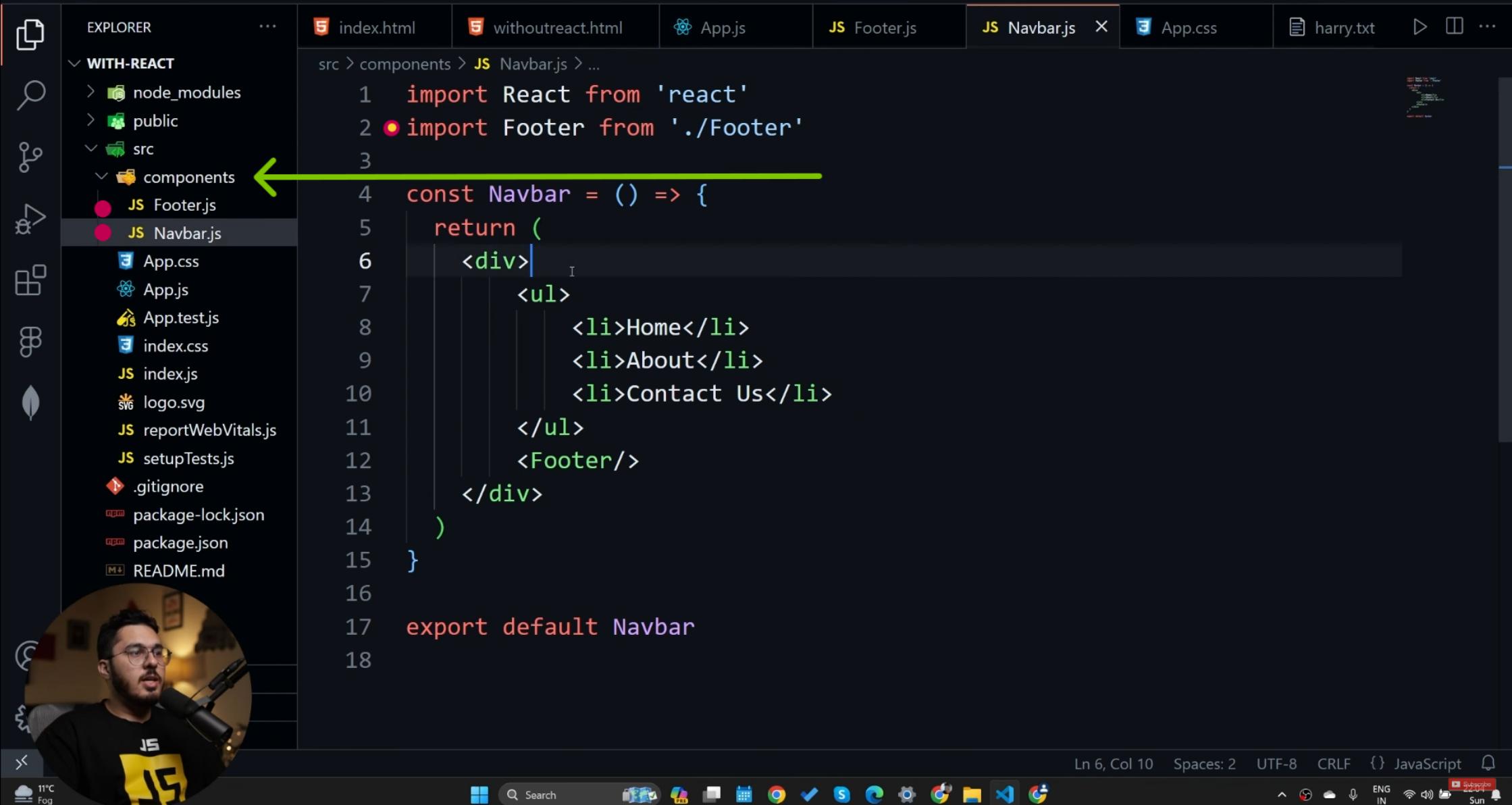
export default
```

11°C Fog

Search

Windows Start

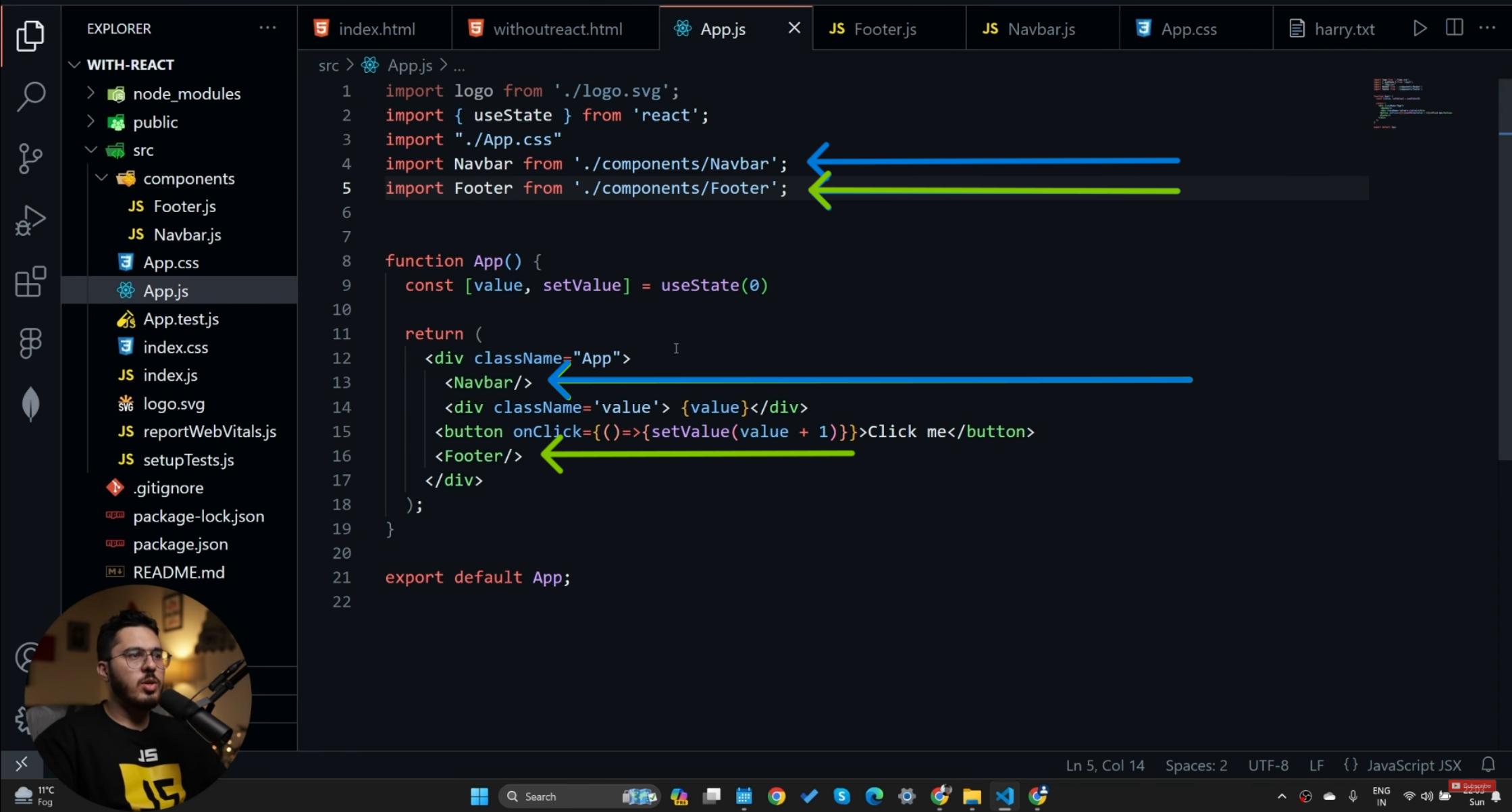
Cloud Sun ENG IN



The screenshot shows a dark-themed instance of Visual Studio Code (VS Code) with the following interface elements:

- Left Sidebar (Explorer):** Shows the project structure under "WITH-REACT". The "components" folder is expanded, revealing "Footer.js" and "Navbar.js". A green arrow points from the "components" folder to the "import Footer" line in the code editor.
- Top Bar:** Includes standard VS Code icons for file operations (New, Open, Save, Find, etc.) and a search bar labeled "with-react".
- Code Editor:** Displays the content of "Navbar.js". The code defines a functional component "Navbar" that returns a 

containing a 
 with three   - items ("Home", "About", "Contact Us") and a  component.
  - Bottom Status Bar:** Shows the current line (Ln 6, Col 10), character spacing (Spaces: 2), encoding (UTF-8), file type (CRLF), and the language being edited (JavaScript). It also includes system status icons like battery level and network connection.
  - Bottom Taskbar:** Features the Windows taskbar with icons for File Explorer, Task View, and other open applications.



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- < src
  - components
    - JS Footer.js
    - JS Navbar.js
  - App.css
  - App.js
  - App.test.js
  - index.css
  - index.js
  - logo.svg
  - reportWebVitals.js
  - setupTests.js
- .gitignore
- package-lock.json
- package.json
- README.md

index.html withoutreact.html App.js Footer.js Navbar.js App.css harry.txt

```
src > App.js > ...
1 import logo from './logo.svg';
2 import { useState } from 'react';
3 import "./App.css"
4 import Navbar from './components/Navbar';
5 import Footer from './components/Footer';

function App() {
  const [value, setValue] = useState(0)

  return (
    <div className="App">
      <Navbar/>
      <div className='value'> {value}</div>
      <button onClick={()=>{setValue(value + 1)}}>Click me</button>
      <Footer/>
    </div>
  );
}

export default App;
```

Ln 5, Col 14 Spaces: 2 UTF-8 LF {} JavaScript JSX

11°C ENG IN Sun



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- < src
  - components
    - JS Footer.js
    - Navbar.js
  - App.css
  - App.js
  - App.test.js
  - index.css
  - index.js
  - logo.svg
  - reportWebVitals.js
  - setupTests.js
  - .gitignore
  - package-lock.json
  - package.json
  - README.md

index.html withoutreact.html App.js Footer.js Navbar.js App.css harry.txt

src > components > Navbar.js > Navbar

```
1 import React from 'react'
2 import Footer from './Footer'
3 
4 const Navbar = ({logoText}) => {
5   return (
6     <div>
7       <div className="logo">{logoText}</div>
8       <ul>
9         <li>Home</li>
10        <li>About</li>
11        <li>Contact Us</li>
12      </ul>
13      <Footer/>
14    </div>
15  )
16 }
17
18 export default Navbar
19 
```

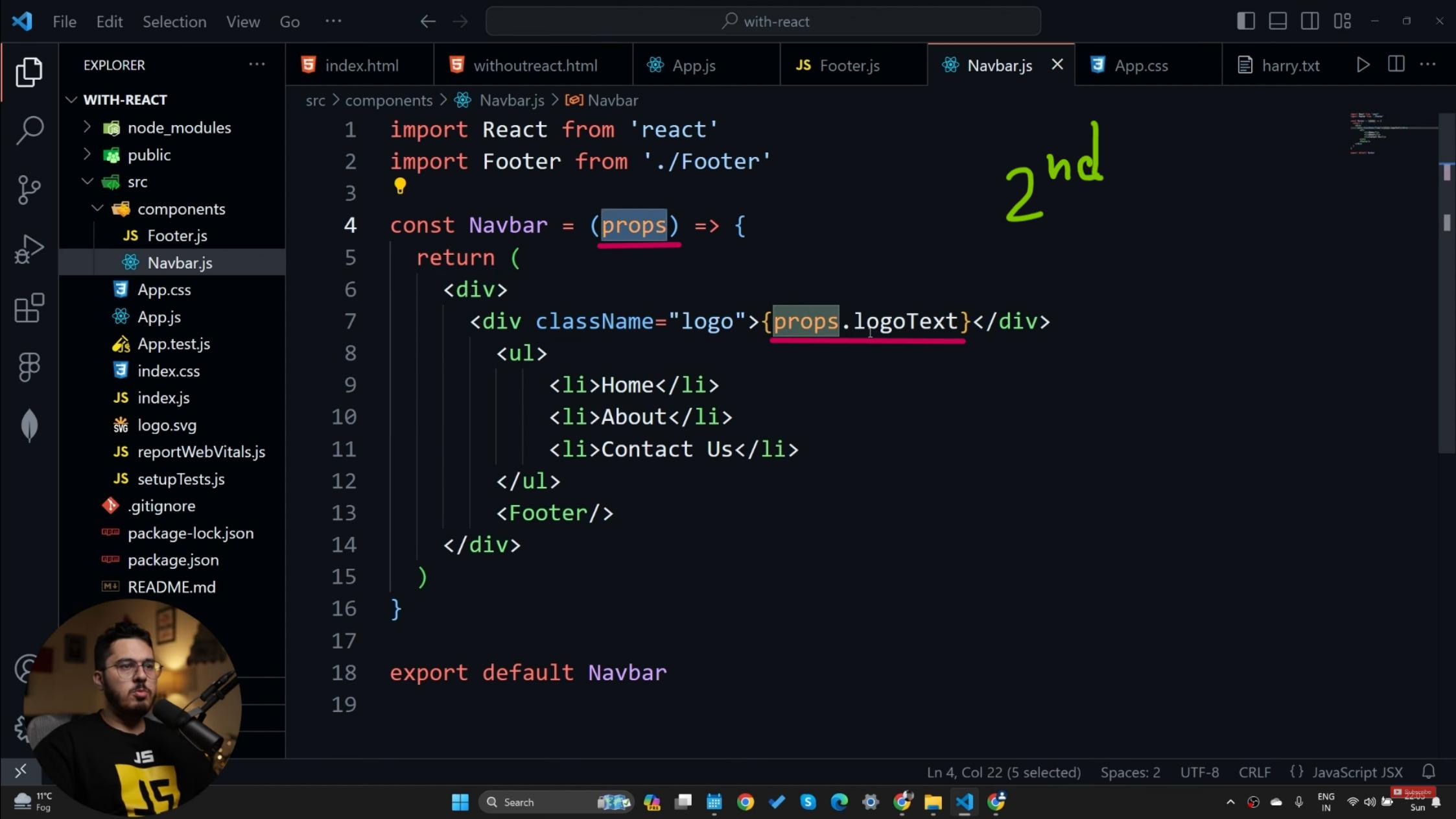
Ln 4, Col 27 (10 selected) Spaces: 2 UTF-8 CRLF {} JavaScript JSX

11°C Fog

Search

Windows Taskbar

Subscribed Sun





EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- src
  - components
    - Footer.js
    - Navbar.js
  - App.css
  - App.js
  - App.test.js
  - index.css
  - index.js
  - logo.svg
  - reportWebVitals.js
  - setupTests.js
  - .gitignore
  - package-lock.json
  - package.json
  - README.md

index.html withoutreact.html App.js Footer.js Navbar.js App.css harry.txt

src > App.js > App

```
1 import logo from './logo.svg';
2 import { useState } from 'react';
3 import "./App.css"
4 import Navbar from './components/Navbar';
5 import Footer from './components/Footer';
6
7
8 function App() {
9     const [value, setValue] = useState(0)
10
11     return (
12         <div className="App">
13             <Navbar logoText="CodeWithCWHHarry"/> ←
14             <div className='value'> {value}</div>
15             <button onClick={()=>{setValue(value + 1)}}>Click me</button>
16             <Footer/>
17         </div>
18     );
19 }
```

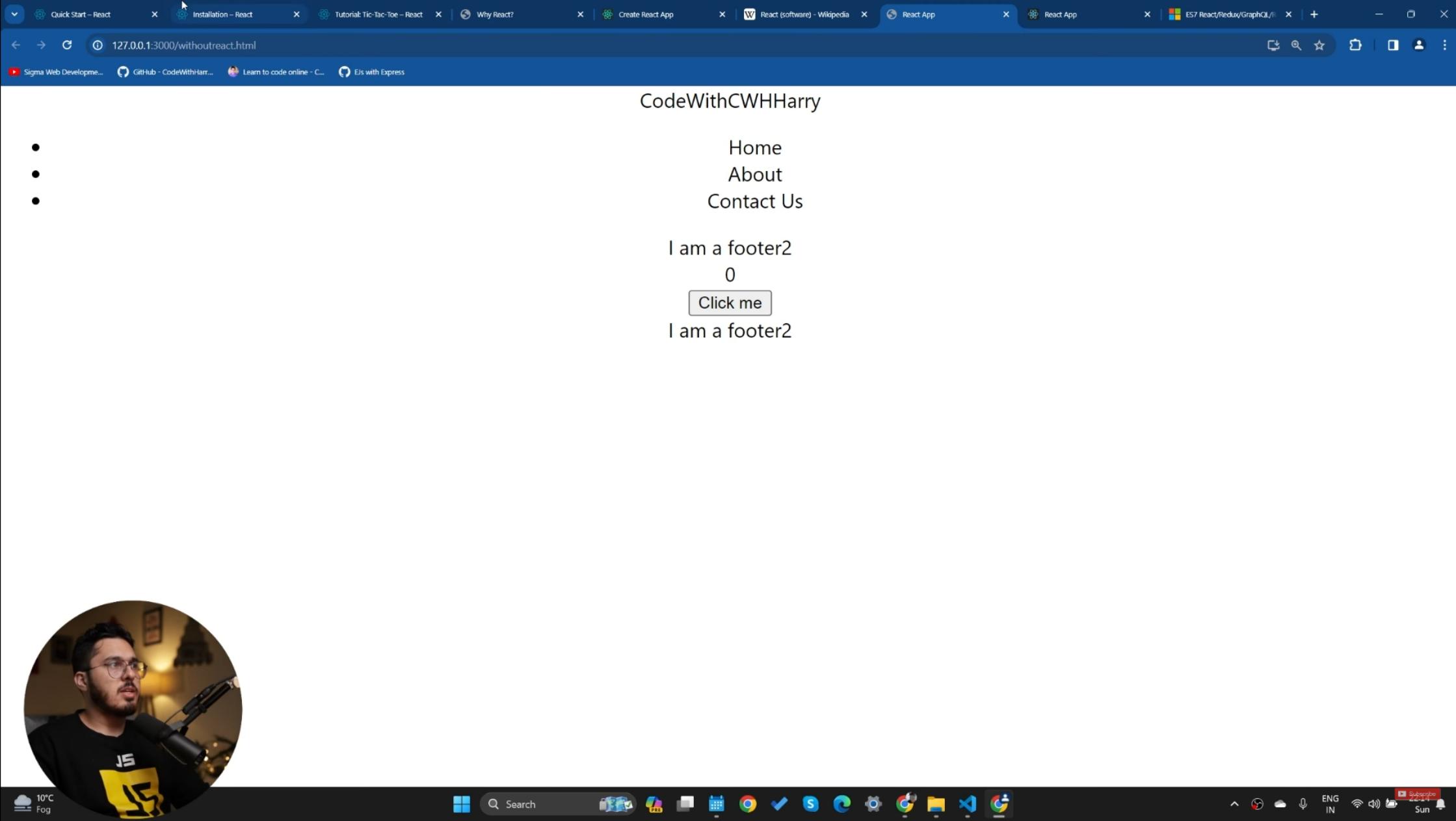
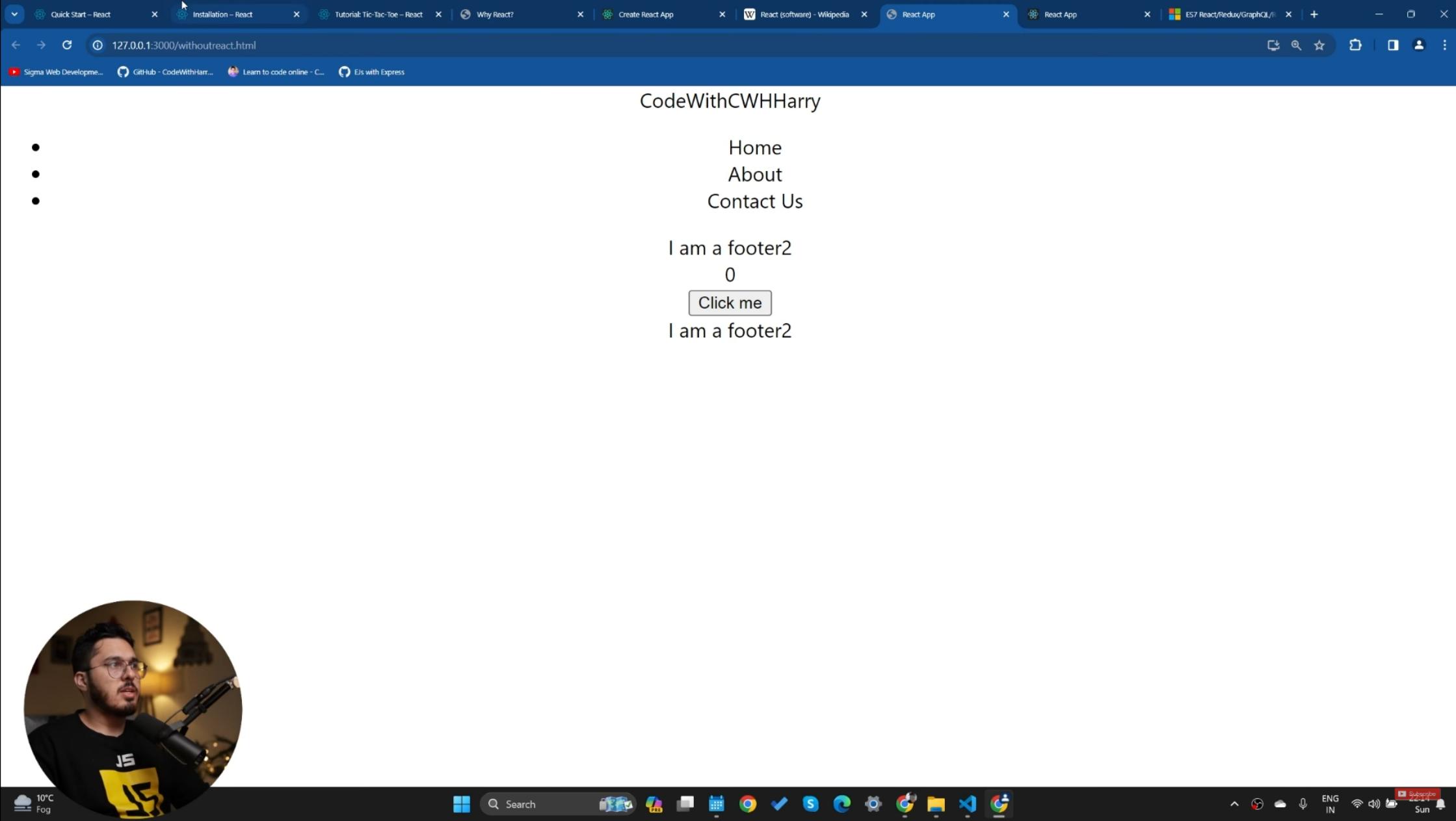
Ln 13, Col 36 Spaces: 2 UTF-8 LF {} JavaScript JSX

11°C Fog

Search

Windows Taskbar

Subscribed Sun





EXPLORER ...

VIDEO 105    

with-react

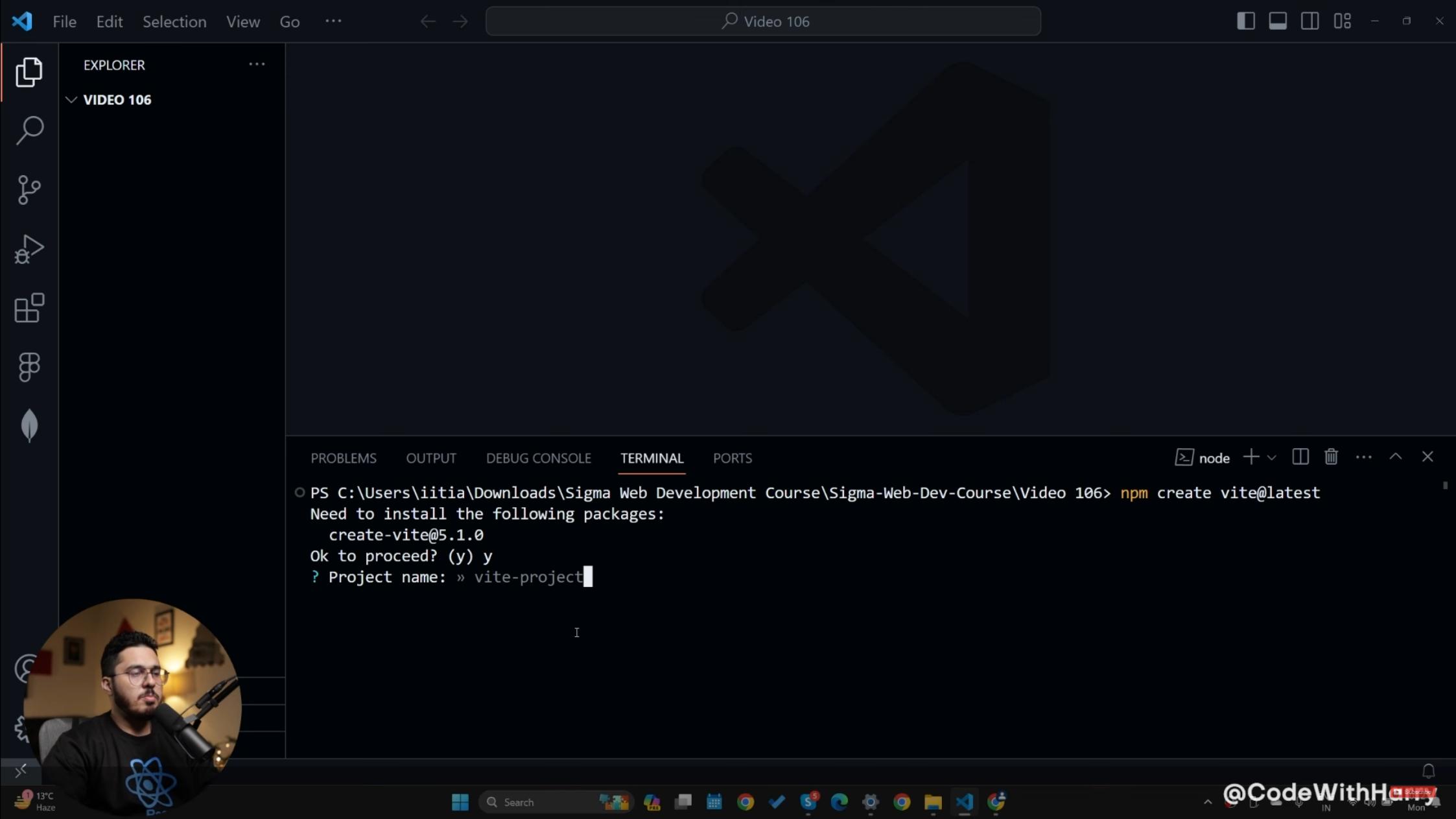
- > node\_modules
- > public
- > src
- .gitignore
- package-lock.json
- package.json
- README.md

index.html Readme.md withoutreact.html

index.html withoutreact.html Readme.md X

Readme.md > # Why React?

```
1 # Why React?
2 - We can use states which means that once we update the state variable, it changes across the page
3 - We can split our app into multiple components and reuse those components
4 - React uses a virtual DOM to efficiently update the UI which is better than updating content using DOM Manipulation
5 - Debugging and maintainance is easy
6
```



File Edit Selection View Go ... ← → ⌂ Video 106

EXPLORER ...

VIDEO 106

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

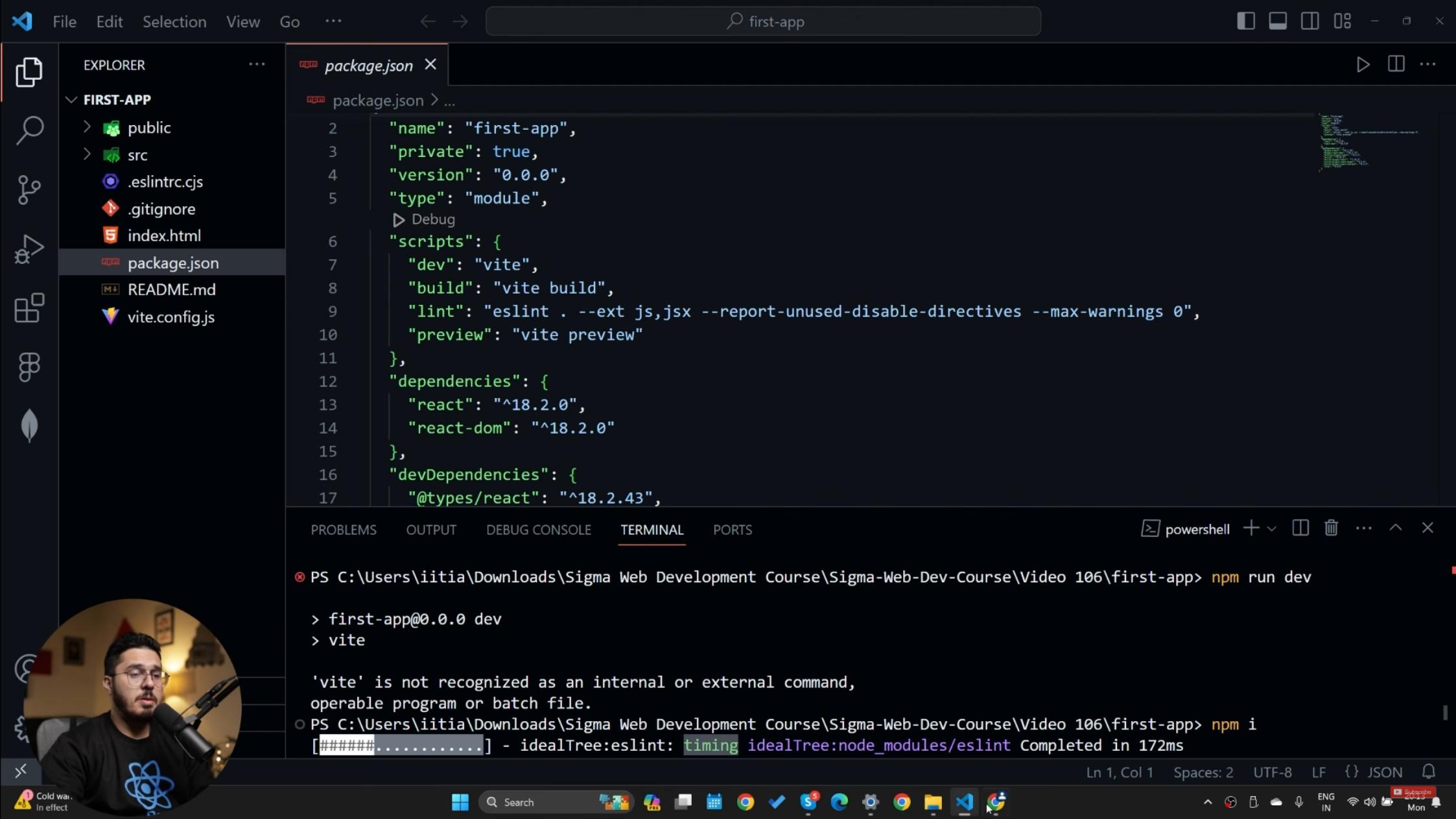
node + ▾ ▷ 🗑️ ... ^ X

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 106> npm create vite@latest  
Need to install the following packages:  
  create-vite@5.1.0  
Ok to proceed? (y) y  
? Project name: » vite-project

I

13°C Haze

@CodeWithHarry IN Mon



Sigma Web Development Course - W | Vite | Next Generation Frontend Tools | Getting Started | Vite | Vitejs - Vite (forked) - StackBlitz | create react app - Google Search

v4.vitejs.dev/guide/

Learn to code online - C... Eis with Express

Guide Config Plugins Resources Version

Compatibility Note

Vite requires Node.js version 14.18+, 16+. However, some templates require a higher Node.js version to work, please upgrade if your package manager warns about it.

With NPM:

```
$ npm create vite@latest
```

With Yarn:

```
$ yarn create vite
```

With PNPM:

```
$ pnpm create vite
```

Then follow the prompts!

You can also directly specify the project name and the template you want to use via additional command line options. For example, to scaffold a Vite + Vue project, run:

```
# npm 6.x
npm create vite@latest my-vue-app --template vue

# npm 7+, extra double-dash is needed:
npm create vite@latest my-vue-app -- --template vue

# yarn
yarn create vite my-vue-app --template vue

# pnpm
pnpm create vite my-vue-app --template vue
```

On this page

- Overview
- Browser Support
- Trying Vite Online
- Scaffolding Your First Vite Proj...
- Community Templates
- index.html and Project Root
- Command Line Interface
- Using Unreleased Commits
- Community

ViteConf 2023

StackBlitz

Δ Labs

astro

storyblok

bit

Remix

tailwind.css

VueJobs

<div> RIOTS

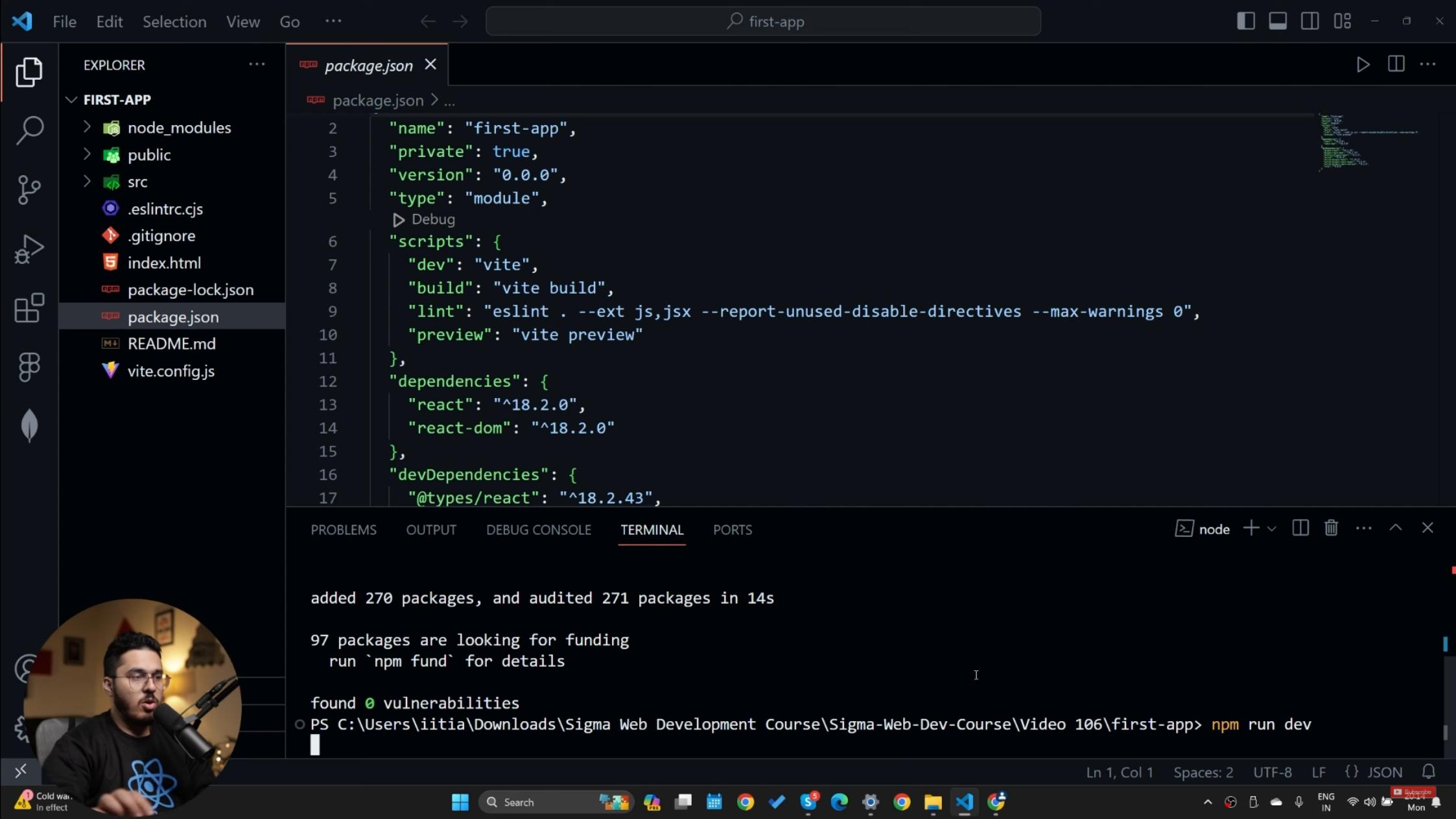
Cold war In effect

ENG IN

Subscribe 2013 Mon



Search Ctrl K





Vite + React *is a library*

count is 0

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more





EXPLORER ...

FIRST-APP

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

App.jsx index.css index.html

src > App.jsx > App

```
1 function App() {  
2  
3   return (  
4     <>  
5     </>  
6   )  
7 }  
8  
9  
10 export default App  
11
```

Entry point

Ln 3, Col 11 Spaces: 2 UTF-8 LF {} JavaScript JSX

ITC Earnings

Search

Windows Start, Task View, Calendar, Chrome, File Explorer, Visual Studio Code, Google Chrome, Edge, Settings, Control Panel, System, Task Manager

Subscribed 2018 Mon



EXPLORER ...

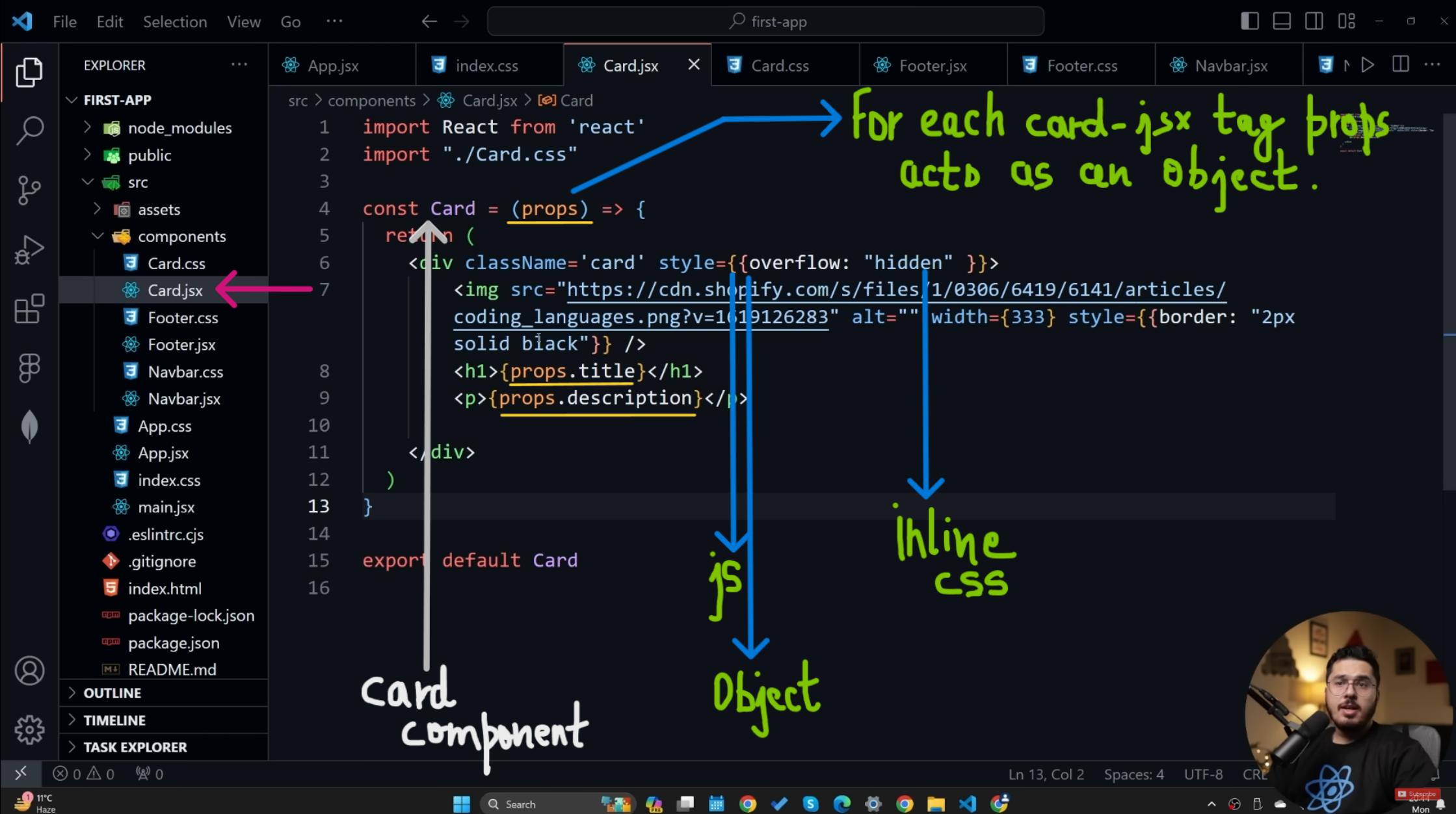
FIRST-APP

- > node\_modules
- > public
- < src
  - > assets
  - < components
    - Card.css
    - Card.jsx
    - Footer.css
    - Footer.jsx
    - Navbar.css
    - Navbar.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

App.jsx index.css Card.jsx Card.css Footer.jsx Footer.css Navbar.jsx

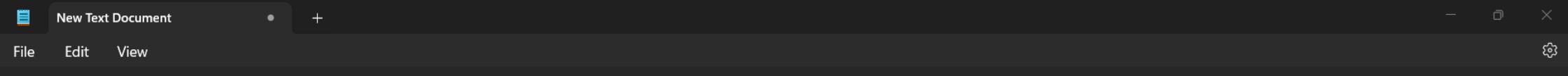
src > components > Card.jsx > Card

```
1 import React from 'react'
2 import "./Card.css"
3
4 const Card = (props) => {
5   return (
6     <div className='card' style={{overflow: "hidden"}}>
7       
10      <h1>{props.title}</h1>
11      <p>{props.description}</p>
12    </div>
13  }
14
15 export default Card
16
```



A screenshot of a Microsoft Visual Studio Code (VS Code) interface showing a file named `App.jsx` open in the editor. The code defines a functional component `App` that returns a JSX structure. The structure includes a `<Navbar />`, a `<div>` with four `<Card>` components, and a `<Footer />`. A pink arrow points from the `App.jsx` icon in the Explorer sidebar to the `App.jsx` tab in the top bar. Four blue arrows point from the word "Components" on the right towards the `<Card>` elements. The status bar at the bottom shows "Ln 23, Col 1" and "Spaces: 2". A circular video overlay in the bottom right corner shows a man speaking into a microphone.

```
function App() {  
  return (  
    <>  
      <Navbar />  
      <div className="cards">  
        <Card title="card 1" description="card 1 desc" />  
        <Card title="card 2" description="card 2 desc" />  
        <Card title="card 3" description="card 3 desc" />  
        <Card title="card 4" description="card 4 desc" />  
      </div>  
      <Footer />  
    </>  
  )  
}  
export default App
```



Jsx : Simply a HTML syntactical sugar(like HTML) where JS "functionalities" can be integrated.

## Jsx wrapper Empty Tag [ // we can also use opening & closing div as wrapper tags: in case there are no div's in inside the "return" function(Entry Point).]

<>

.....

.....

...

</>

Jsx is more Strict than html as all the tags needed to be closed

Eg: <img src="" alt="" />

## Index.css is the css globally for all the page components in the src folder.

## props in the card.jsx acts as an object(oops)(to fetch info) for all the card component tags in app.jsx.

## In jsx:

{ } --> represents writing js

{} {} --> represents object inside js [for inline css object inside js]



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vitejs.dev/guide/ GitHub - CodeWithHarry... Learn to code online - C... Es with Express

Vite Guide Config Plugins Resources Version X

Search Ctrl K

qwik qwik-ts

## Scaffolding Your First Vite Project

**Compatibility Note**

Vite requires [Node.js](#) version 18+. 20+. However, some templates require a higher Node.js version to work, please upgrade if your package manager warns about it.

NPM Yarn PNPM Bun

```
$ npm create vite@latest
```

Then follow the prompts!

You can also directly specify the project name and the template you want to use via additional command line options. For example, to scaffold a Vite + Vue project, run:

```
# npm 7+, extra double-dash is needed:  
npm create vite@latest my-vue-app -- --template vue  
  
# yarn  
yarn create vite my-vue-app --template vue  
  
# pnpm  
pnpm create vite my-vue-app --template vue  
  
# bun  
bunx create-vite my-vue-app --template vue
```

See [create-vite](#) for more details on each supported template: [vanilla](#), [vanilla-ts](#), [vue](#), [vue-ts](#), [react](#), [react-ts](#), [react-swc](#), [react-swc-ts](#), [preact](#), [preact-ts](#), [lit](#), [lit-ts](#),

On this page

- Overview
- Browser Support
- Trying Vite Online
- Scaffolding Your First Vite Project**
- Community Templates
- index.html and Project Root
- Command Line Interface
- Using Unreleased Commits
- Community

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StackBlitz

Δ Labs

astro

storyblok

bit

Remix

tailwind.css

VueJobs

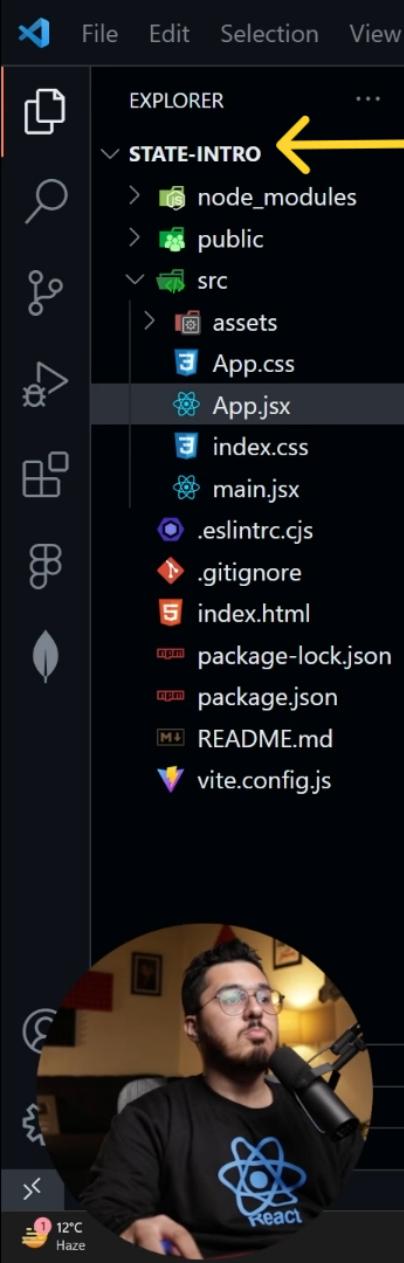
<div> RIOTS

12°C Haze

LIKE & SUL

@CodeWithHarry





A screenshot of a Microsoft Visual Studio Code interface. The title bar shows 'state-intro'. The Explorer sidebar on the left has a yellow arrow pointing to the 'STATE-INTRO' folder, which contains files like 'node\_modules', 'public', 'src', 'assets', 'App.css', 'App.jsx', 'index.css', 'main.jsx', '.eslintrc.cjs', '.gitignore', 'index.html', 'package-lock.json', 'package.json', 'README.md', and 'vite.config.js'. The 'App.jsx' file is open in the main editor area. The code uses hooks to manage state:

```
3 import viteLogo from '/vite.svg'
4 import './App.css'
5
6 function App() {
7   // const [count, setCount] = useState(2)
8   let a = 5;
9
10  return (
11    <>
12      <div>The count is {a}</div>
13      <button onClick={()=>{a = a+1}}>Update count</button>
14    </>
15  )
16}
17
18 export default App
19
```

A blue arrow points from the line 'let a = 5;' to the word 'Hooks' on the right. A pink arrow points from the line 'The count is {a}' down to the handwritten note 'Updates 'a' , not'.

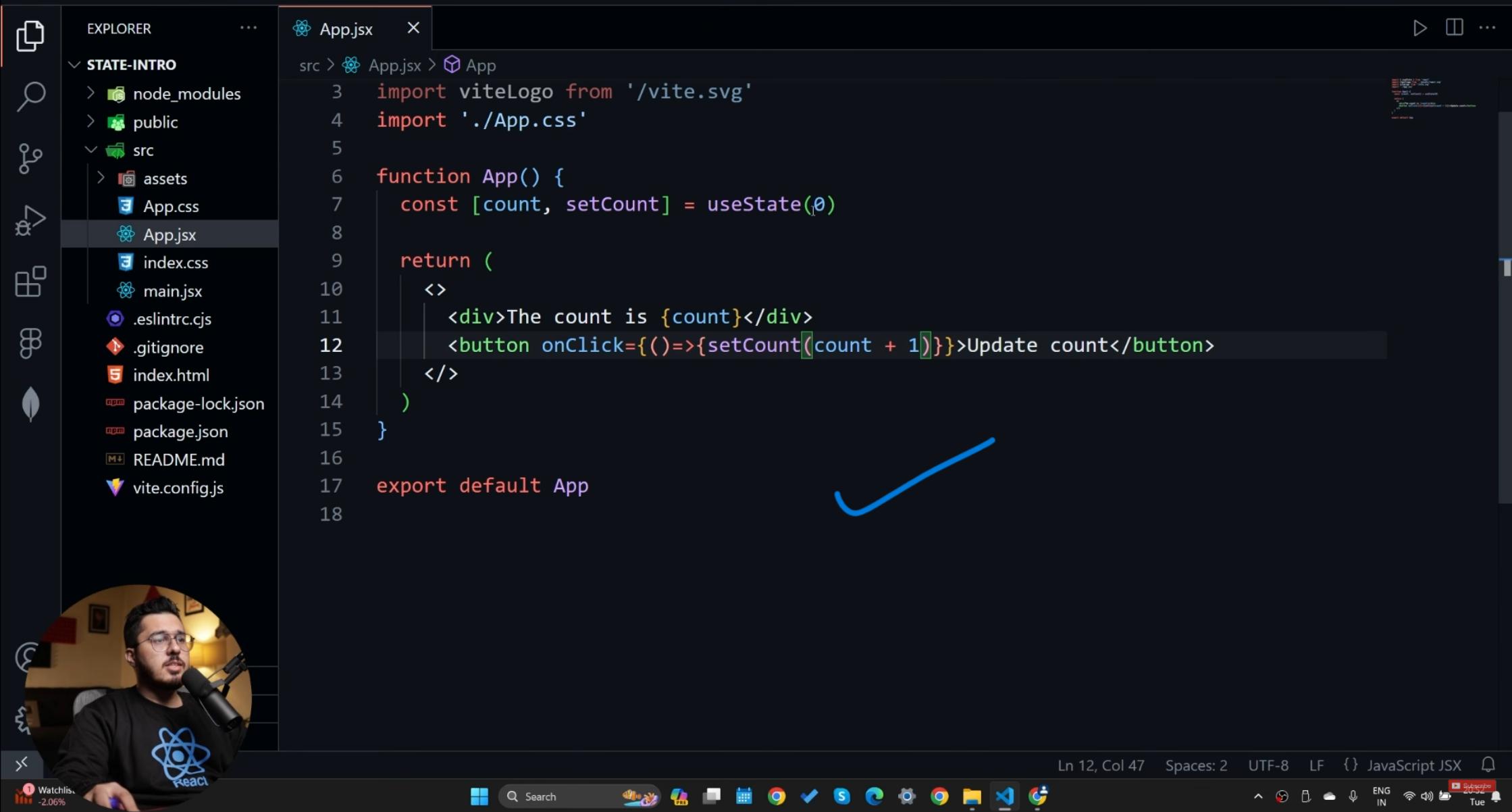
Ln 8, Col 13 (13 selected) Spaces: 2 UTF-8 LF {} JavaScript JSX

12°C Haze

Search

Subscribed 2021

Tue



EXPLORER ...

STATE-INTRO

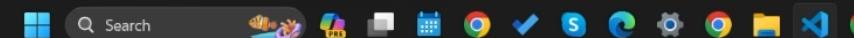
- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

App.jsx X

src > App.jsx > App

```
3 import viteLogo from '/vite.svg'
4 import './App.css'
5
6 function App() {
7   const [count, setCount] = useState(0)
8
9   return (
10     <>
11       <div>The count is {count}</div>
12       <button onClick={()=>{setCount(count + 1)}}>Update count</button>
13     </>
14   )
15 }
16
17 export default App
18
```

Ln 12, Col 47 Spaces: 2 UTF-8 LF {} JavaScript JSX

Watchlist -2.06%  Subscribers 20,322

Sigma Web Development Course - W | Getting Started | Vite | Vitejs - Vite (forked) - Stackblitz | Vite + React | hooks in react - Google Search | Built-in React Hooks - React

react.dev/reference/react/hooks

Support Ukraine  Help Provide Humanitarian Aid to Ukraine.

React

react@18.2.0

Overview API REFERENCE > Learn Reference Community Blog

Hooks

- use 
- useCallback
- useContext
- useDebugValue
- useDeferredValue
- useEffect
- useId
- useImperativeHandle
- useInsertionEffect
- useLayoutEffect
- useMemo
- useOptimisticRendering
- useRef
- useState

Built-in React Hooks

*Hooks let you use different React features from your components. You can either use the built-in Hooks or combine them to build your own. This page lists all built-in Hooks in React.*

## State Hooks

*State lets a component "remember" information like user input. For example, a form component can use state to store the input value, while an image gallery component can use state to store the selected image index.*

To add state to a component, use one of these Hooks:

- `useState` declares a state variable that you can update directly.
- `useReducer` declares a state variable with the update logic inside a reducer function.

```
function ImageGallery() {  
  const [index, setIndex] = useState(0);  
  // ...
```

## Context Hooks

*Context lets a component receive information from distant parents without passing it as props. For example, your app's top-level component can pass the current UI theme to all components below, no matter how deep.*

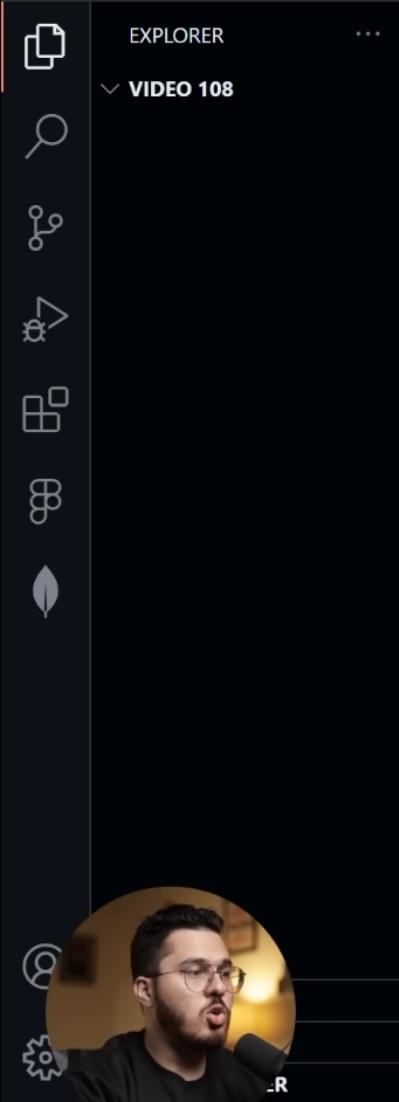
- `useContext` reads and subscribes to a context.

ON THIS PAGE

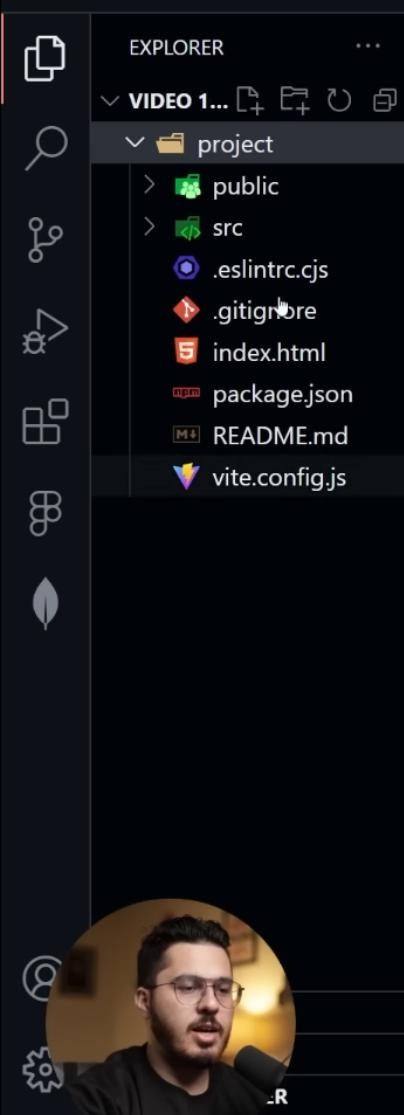
- Overview
- State Hooks
- Context Hooks
- Ref Hooks
- Effect Hooks
- Performance Hooks
- Resource Hooks
- Other Hooks
- Your own Hooks



Watchlist: -2.06% ENG IN Subscribers 20,322 Tue



```
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 108> npm create vite@latest
? Project name: » .
```



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORT

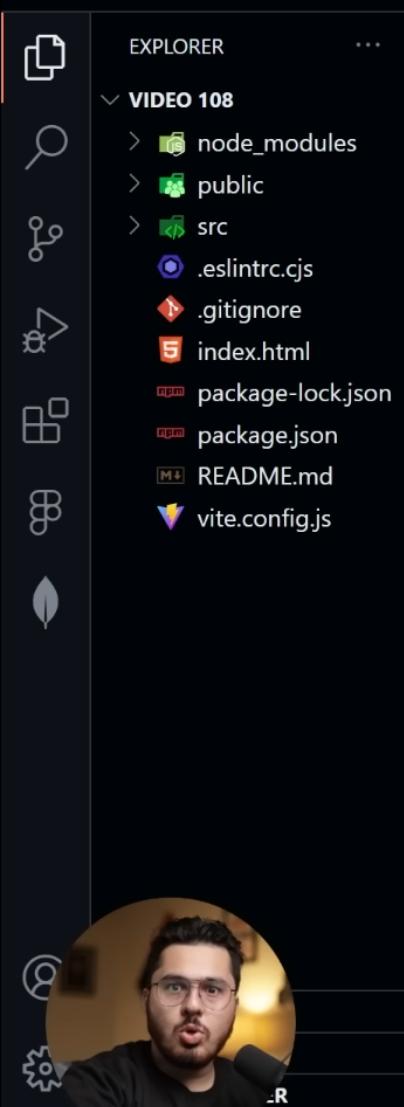
```
✓ Project name: ... project
✓ Select a framework: » React
✓ Select a variant: » JavaScript
```

Scaffolding project in C:\Users\iitja\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 108\project...

Done. Now run

```
cd project  
npm install  
npm run dev
```

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 108> code -r project



EXPLORER

◀ VIDEO 108

- >  node\_modules
  - >  public
  - >  src
    - ⑤ .eslintrc.cjs
    - ⑥ .gitignore
    - ⑦ index.html
  - ⑧ package-lock.json
  - ⑨ package.json
  - M README.md
  - V vite.config.js

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
npm install  
npm run dev
```

● PS C:\Users\litiia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 108 > **npm i**

added 270 packages, and audited 271 packages in 14s

97 packages are looking for funding  
run `npm fund` for details

found 0 vulnerabilities

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 108> █





EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

# App.jsx

src > App.jsx > App

```
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)

8
9   useeff|
```

useEffect (ES7+ React/Redux/React-Native snippets)

```
useEffect(() => {
  first

  return () => {
    second
  }
}, [third])
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

7:36:04 pm [vite] hmr update /src/App.jsx



Ln 9, Col 9 Spaces: 2 UTF-8 LF {} JavaScript JSX

16°C Cloudy

File Edit Selection View Go ... ⟲ ⟳ Video 108

# React Hook

EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
- index.css
- main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



App.jsx

```
src > App.jsx > App
```

```
1 import { useState, useEffect } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)

8
9   useEffect(() => {
10     alert("Hey welcome to my page")
11   }, [])
12
13
14   return (
15     <>
16       <div>
```

it runs whenever the component gets mounted  
when nothing changes on the page.)

16°C Cloudy

Search

Spaces: 2 LF ENG IN Subscripted 19:37 Wed

EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



App.jsx x vite.config.js README.md package.json package-lock.json index.html main.jsx

src > App.jsx > App

```
5
6 function App() {
7   const [count, setCount] = useState(0)
8
9   useEffect(() => {
10     alert("Hey welcome to my page")
11   }, [])
12
13  useEffect(() => {
14    alert("Count was changed")
15  }, [count]) → triggers when count changes
16
17
18  return (
19    <>
20      <div>
```

Ln 15, Col 14 Spaces: 2 UTF-8 LF {} JavaScript JSX

EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



src > main.jsx

```
1 import React from 'react'
2 import ReactDOM from 'react-dom/client'
3 import App from './App.jsx'
4 import './index.css'
5
6 ReactDOM.createRoot(document.getElementById('root')).render(
7   <React.StrictMode>
8     <App />
9   </React.StrictMode>,
10 )
11
```

Dev Environment  
( 2 times )

EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - components
    - Navbar.jsx
    - App.css
    - App.jsx
    - index.css
    - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

App.jsx Navbar.jsx X index.html main.jsx

src > components > Navbar.jsx > [?] Navbar

```
1 import React, {useEffect} from 'react'
2
3 const Navbar = ({color}) => {
4   useEffect(() => {
5     alert("color was changed")
6   }, [color])
7
8   return (
9     <div>
10    | I am navbar of {color} color hehe..
11   </div>
12 )
13
14
15 export default Navbar
16
```



EXPLORER

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - components
    - Navbar.jsx
    - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



App.jsx

src > App.jsx > App

```
10  const [color, setColor] = useState(0) ← blue arrow
11
12  useEffect(() => {
13    alert("Hey welcome to my page")
14  }, [])
15
16  useEffect(() => {
17    alert("Count was changed")
18    setColor(color + 1) ← pink arrow
19  }, [count])
20
21  useEffect(() => {
22    alert("First was changed")
23  }, [first])
24
25
26  return (
27    <>
28      <Navbar color={"navy" + "blue" + color}/> ← pink arrow
```

Ln 28, Col 47 (42 selected)

Spaces: 2

UTF-8

LF

{ } JavaScript JSX

EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- ✓ src
  - > assets
  - ✓ components
    - Navbar.jsx
    - App.css
    - App.jsx
    - index.css
    - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

App.jsx Navbar.jsx X index.html main.jsx

```
src > components > Navbar.jsx > Navbar
1 import React, { useEffect } from 'react'
2
3 const Navbar = ({ color }) => {
4   // Case 1: Run on every render
5   useEffect(() => {
6     | alert("Hey I will run on every render")
7   })
8
9   // Case 2: Run only on first render
10  useEffect(() => {
11    |           I
12    |     alert("Hey welcome to my page. This is the first render")
13  }, [])
14
15   // Case 3: Run only when certain values change
16  useEffect(() => {
17    |     alert("Hey I am running because color was changed")
18  }, [color])
19
20  return (
21    <div>
22      | I am navbar of {color} color hehe..
23    </div>
24  )
25
26 export default Navbar
27
```

EXPLORER ...

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - components
    - Navbar.jsx
    - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

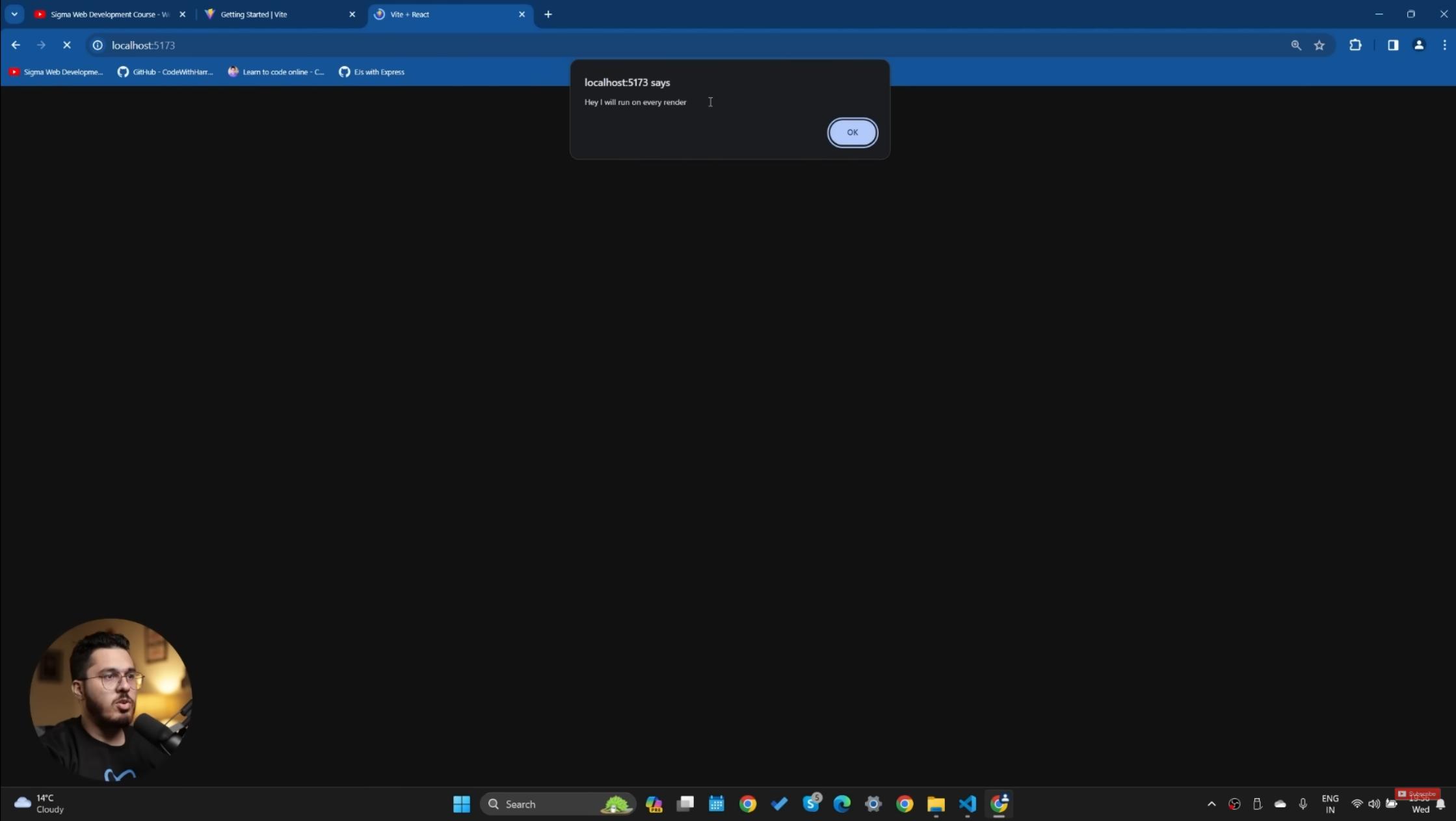
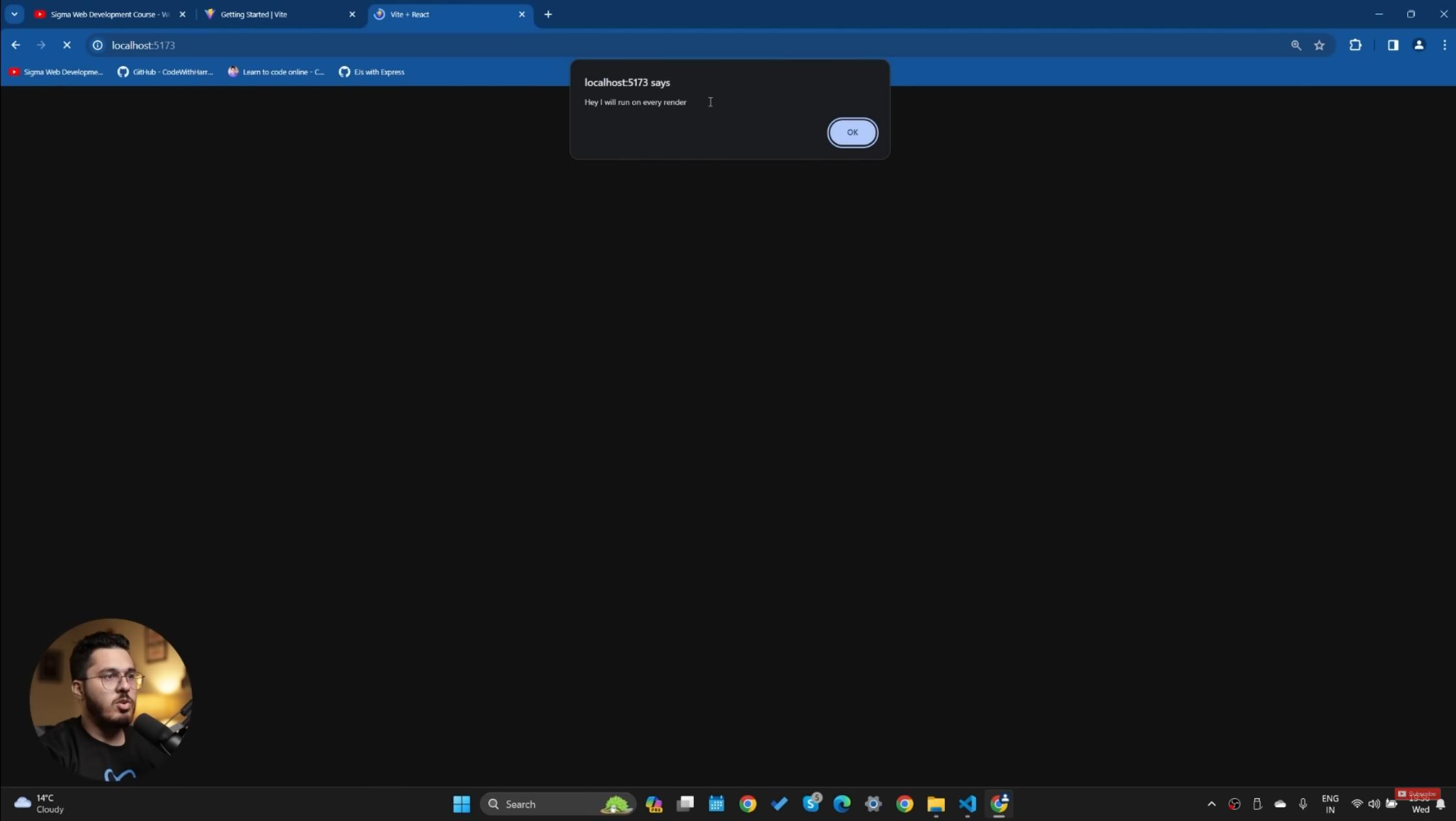


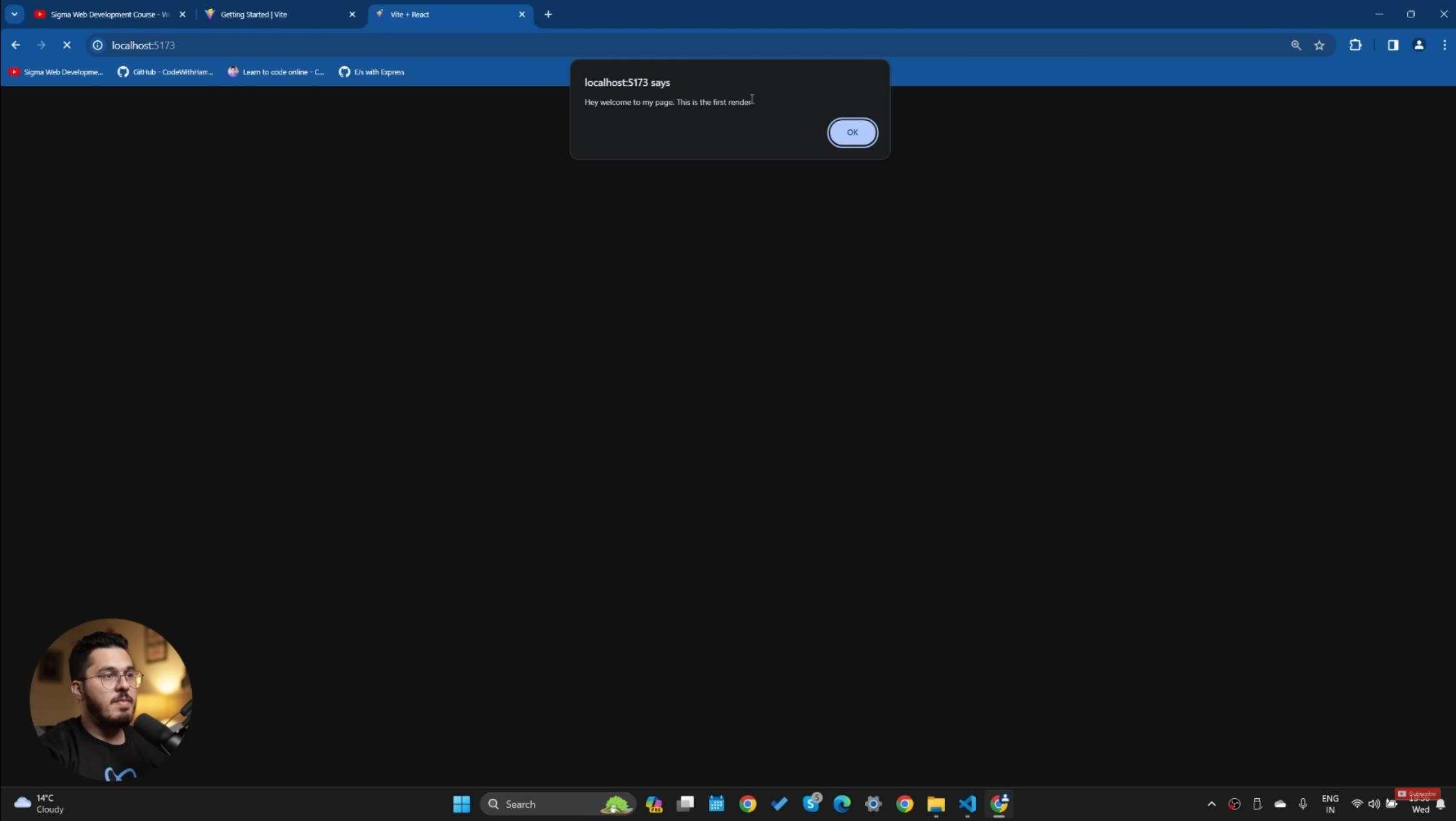
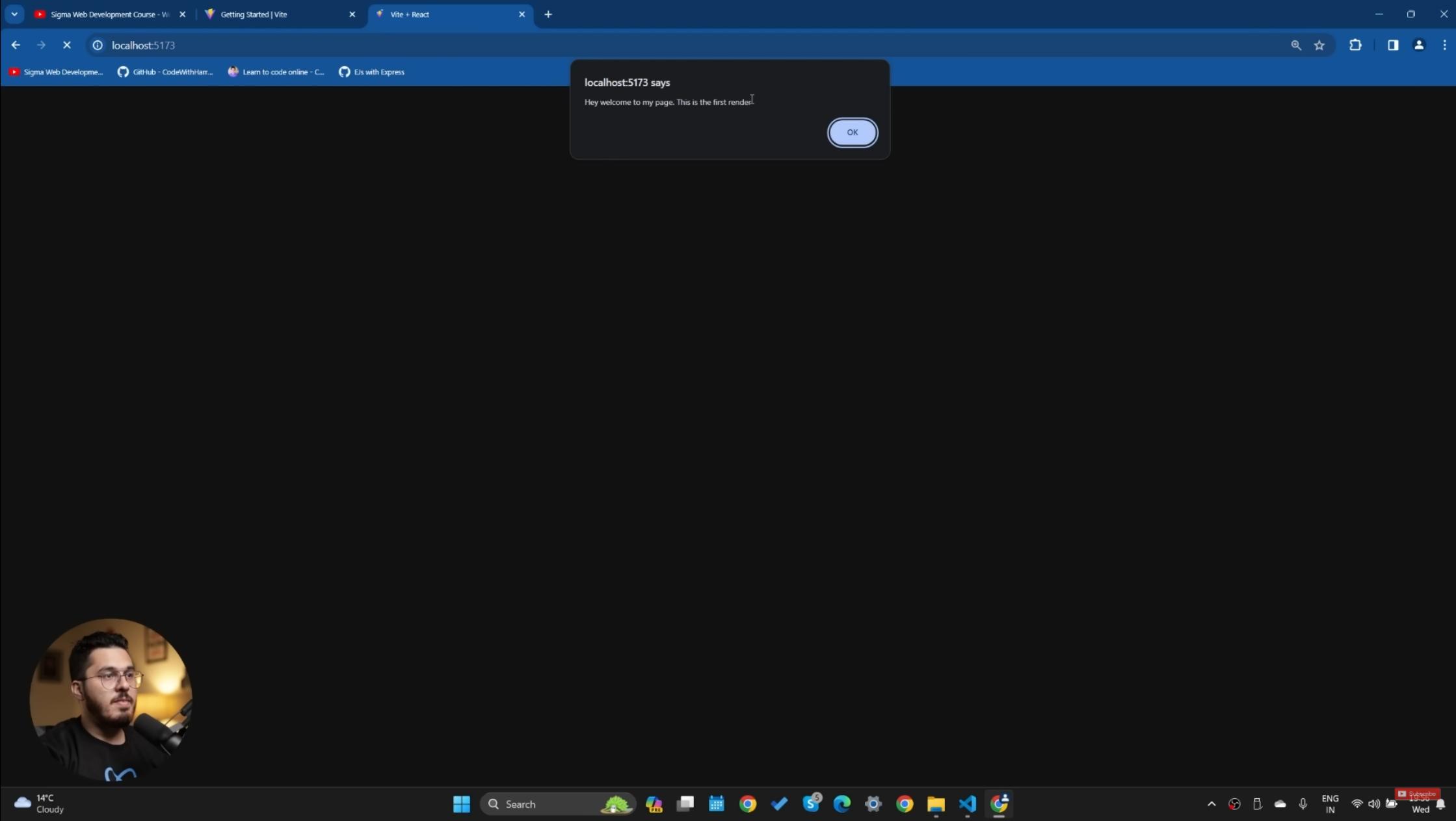
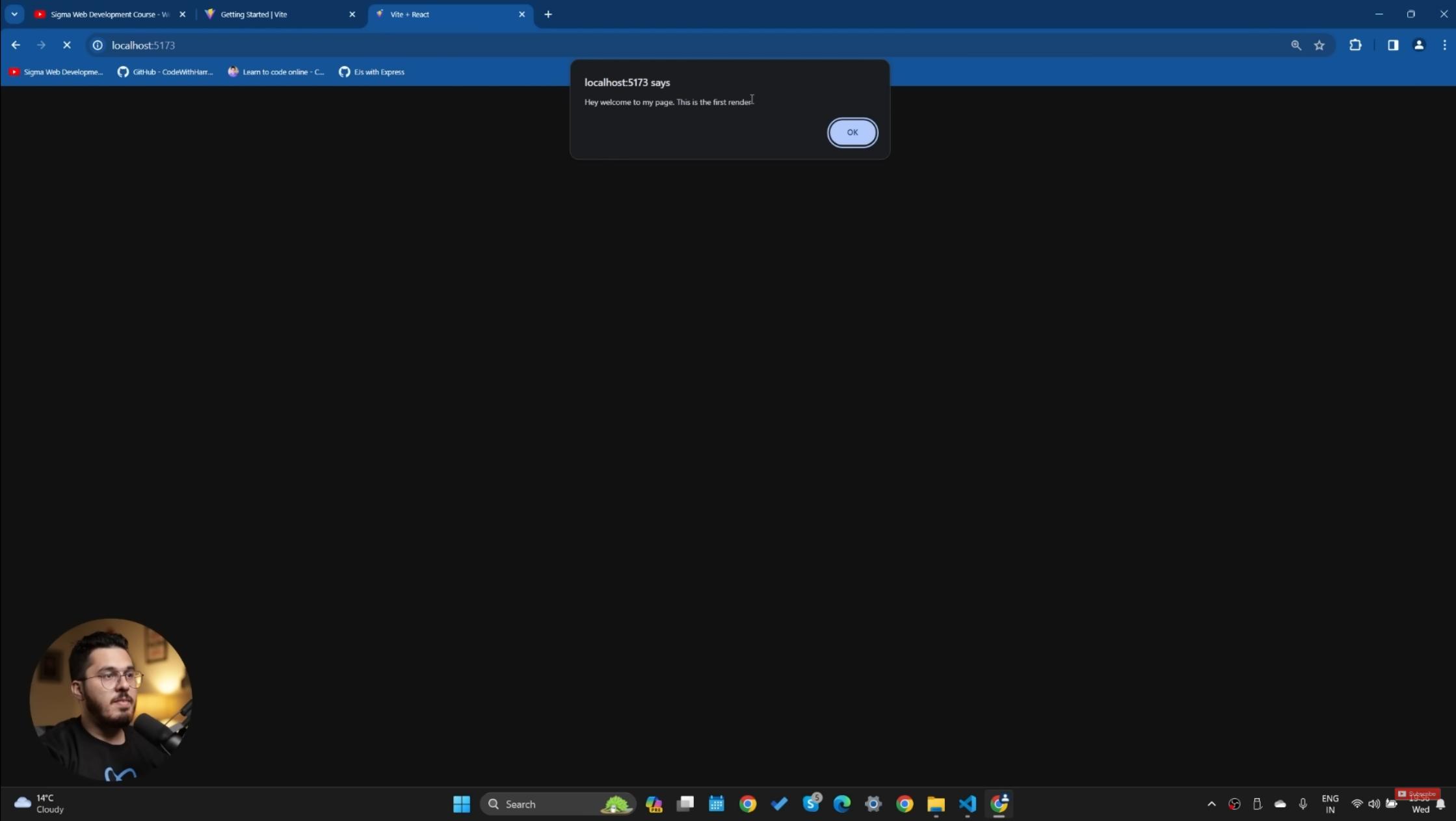
App.jsx x Navbar.jsx index.html main.jsx

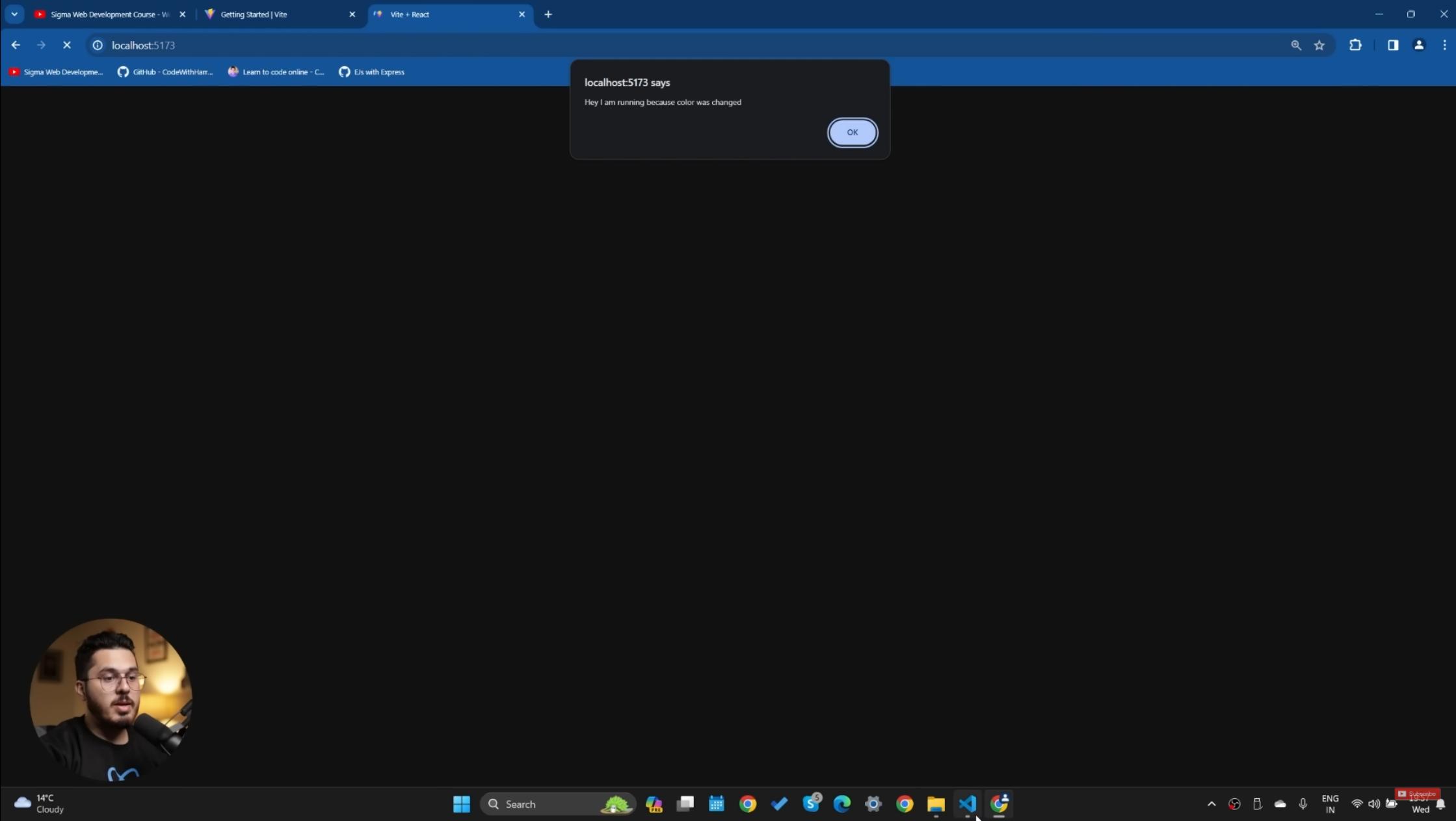
```
src > App.jsx > App
  4 import './App.css'
  5 import Navbar from './components/Navbar'
  6
  7 function App() {
  8   const [count, setCount] = useState(0)
  9   const [first, setFirst] = useState(0)
 10   const [color, setColor] = useState(0)

 13 useEffect(() => {
 14   alert("Count was changed")
 15   setColor(color + 1)
 16 }, [count])

 20
 21   <>
 22   <Navbar color={"navy " + "blue" + color}/>
 23     <div>
 24       <a href="https://vitejs.dev" target="_blank">
 25         <img src={viteLogo} className="logo" alt="Vite logo" />
 26       </a>
 27       <a href="https://react.dev" target="_blank">
 28         <img src={reactLogo} className="logo react" alt="React logo" />
 29       </a>
 30     </div>
 31     <h1>Vite + React</h1>
```







Sigma Web Development Course - W... | Getting Started | Vite | Vite + React

localhost:5173

Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

localhost:5173 says

Hey I am running because color was changed

OK

14°C Cloudy

Search

Windows Start

File Explorer

Calculator

Google Chrome

Notepad

PowerShell

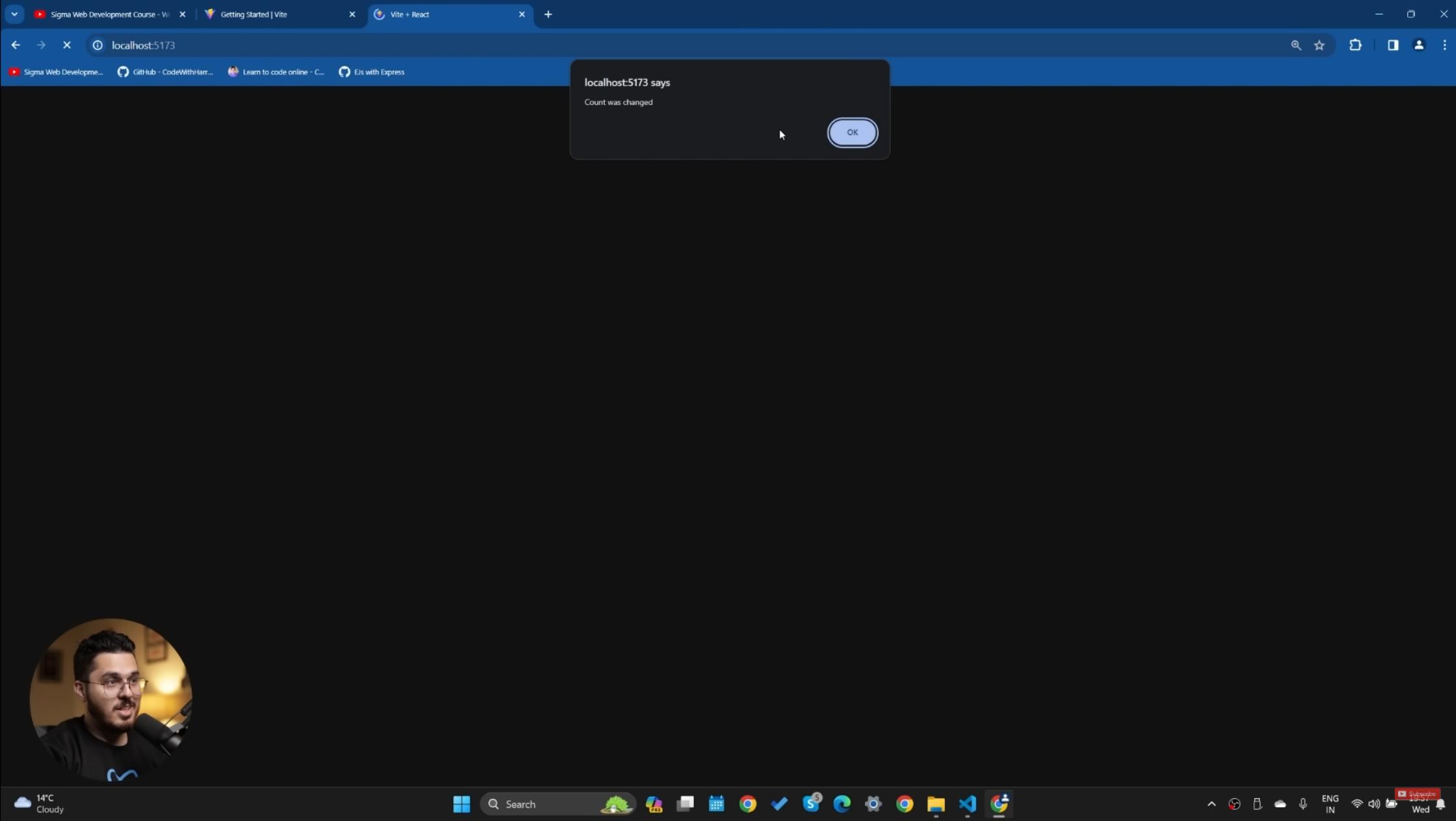
Task View

File Explorer

Visual Studio Code

Google Chrome

System Tray: Network, Battery, Volume, Date/Time (Wed 19:37)



localhost:5173



Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

localhost:5173 says

Hey I will run on every render

OK

I am navbar of navy blue0 color hehe..



# Vite + React

count is 0

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more

localhost:5173 says

Hey I am running because color was changed

OK

I am navbar of navy blue0 color hehe..



# Vite + React

count is 0

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more



localhost:5173



Sigma Web Developme...

GitHub - CodeWithHarr...

Learn to code online - C...

Ejs with Express

I am navbar of navy blue1 color hehe..



# Vite + React

count is 0

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more

localhost:5173



Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

localhost:5173 says

Hey I will run on every render

OK

I am navbar of navy blue2 color hehe..



# Vite + React

count is 0

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more



localhost:5173 says

Count was changed

OK

I am navbar of navy blue2 color hehe..



# Vite + React

count is 0

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more

localhost:5173 says

Hey I will run on every render

OK

I am navbar of navy blue2 color hehe..



# Vite + React

count is 1

Edit `src/App.jsx` and save to test HMR



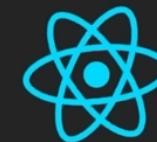
Click on the Vite and React logos to learn more

localhost:5173 say

▶ Hey I am running because color was change

1

I am navbar of navy blue2 color hehe.



# Vite + React

count is

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more

I am navbar of navy blue3 color hehe..



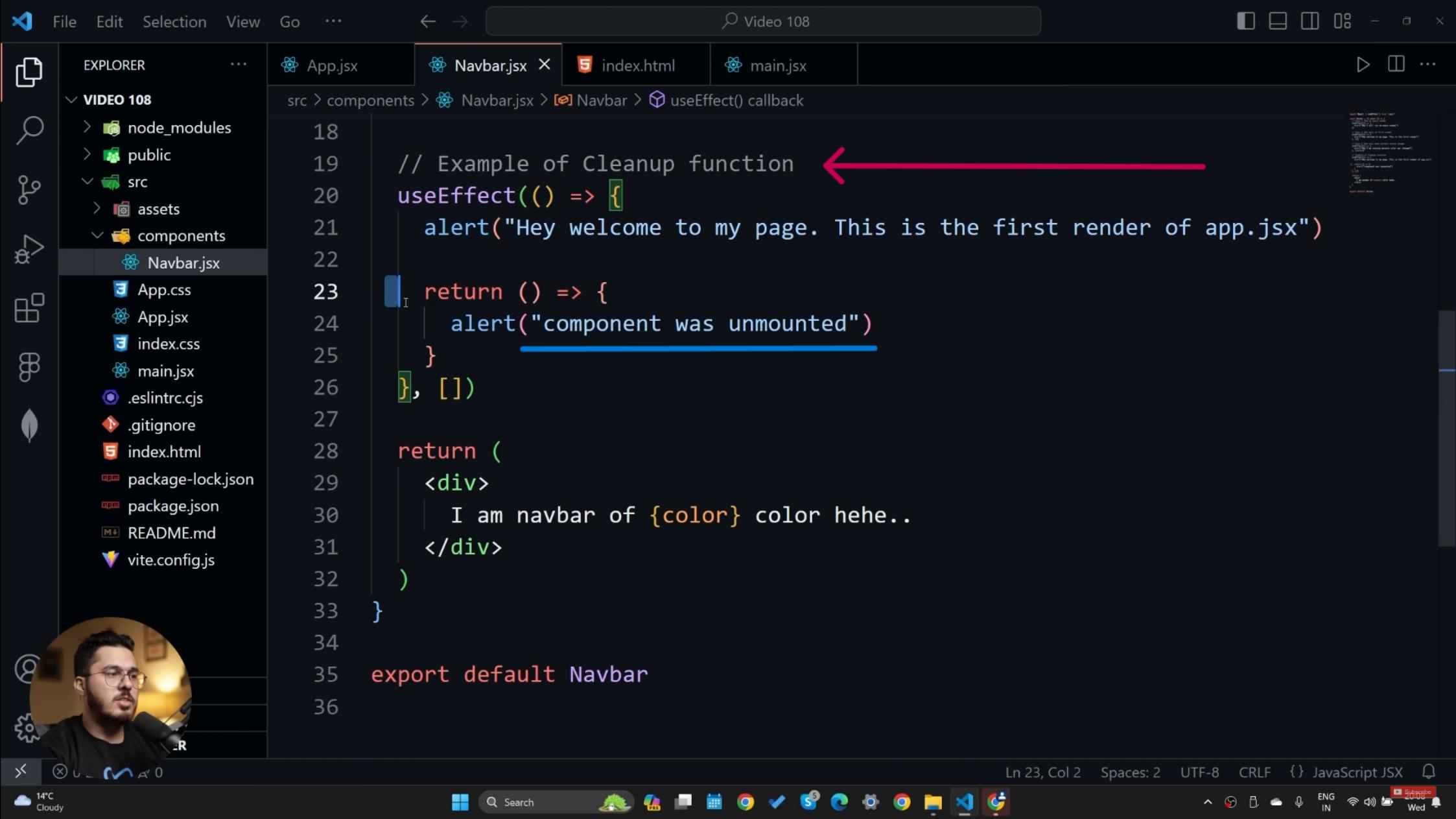
# Vite + React

count is 1

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more



EXPLORER

VIDEO 108

- > node\_modules
- > public
- src
  - > assets
  - components
    - Navbar.jsx
    - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



File Explorer

App.jsx

Navbar.jsx

index.html

main.jsx

src > App.jsx > App

```
useEffect(() => {
    alert("Count was changed")
    setColor(color + 1)
}, [count])

return (
<>
  {/* <Navbar color={"navy " + "blue" + color}> */}
  <div>
    <a href="https://vitejs.dev" target="_blank">
      <img src={viteLogo} className="logo" alt="Vite logo" />
    </a>
    <a href="https://react.dev" target="_blank">
      <img src={reactLogo} className="logo react" alt="React logo" />
    </a>
  </div>
  <h1>Vite + React</h1>
  <div className="card">
    <button onClick={() => setCount((count) => count + 1)}>
```

Line 21, Col 58 (52 selected)

localhost:5173 say

component was unmounte

1

I am navbar of navy blue2 color hehe.



# Vite + React

count is 7

Edit `src/App.jsx` and save to test HMR



Click on the Vite and React logos to learn more

A screenshot of a Microsoft Windows desktop environment. In the center, a video player window titled "Video 109" is open, showing a video thumbnail of a man with glasses. The video player has standard controls for play, pause, volume, and brightness. At the top of the screen, the Windows taskbar is visible with icons for File Explorer, File, Edit, Selection, View, Go, and a three-dot menu. To the right of the taskbar is a system tray with icons for battery status, signal strength, and system notifications.

The main content area shows a Microsoft Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar, which displays a file tree for a project named "VIDEO 109". The tree includes a "public" folder, a "src" folder containing ".eslintrc.cjs", ".gitignore", and "index.html", and files like "package.json", "README.md", and "vite.config.js".

The central workspace contains a terminal window with the following content:

- "PROBLEMS", "OUTPUT", "DEBUG CONSOLE", "TERMINAL" (underlined), and "PORTS" tabs are at the top of the terminal area.
- Terminal output:
  - Two green checkmark messages: "Select a framework: » React" and "Select a variant: » JavaScript".
  - A message indicating the project is being scaffolded: "Scaffolding project in C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 109..."
  - A message "Done. Now run:" followed by two command-line entries: "npm install" and "npm run dev".
  - A terminal prompt showing a progress bar and the command "PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 109> npm i [#####.....] \ idealTree:eslint: timing idealTree:node\_modules/eslint Completed in 1297ms".



EXPLORER ...

VIDEO 109

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



&gt; OUTLINE

&gt; TIMELINE

&gt; TASK EXPLORER

× 0 ▲ 0 ⌂ 0



13°C

Cloudy

App.jsx X

```
src > App.jsx > App
  1 import { useState, useEffect, useRef } from 'react'
  2 import reactLogo from './assets/react.svg'
  3 import viteLogo from '/vite.svg'
  4 import './App.css'

  5
  6 function App() {
  7   const [count, setCount] = useState(0)
  8   let a = 0; ←

  9
 10  useEffect(() => {
 11    console.log(`rerendering and the value of a is ${a}...`)
 12  });

 13
 14
 15  return (
 16    <>
 17      <div>
 18        <a href="https://vitejs.dev" target="_blank">
 19          <img src={viteLogo} className="logo" alt="Vite logo" />
 20        </a>
 21        <a href="https://react.dev" target="_blank">
 22          <img src={reactLogo} className="logo react" alt="React logo" />
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

8:37:37 pm [vite] hmr update /src/App.jsx (x2)

node +



Ln 9, Col 1 Spaces: 2 UTF-8 LF

Vite + React

localhost:5173

Sigma Web Development... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

# Vite + React

count is 8

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder >  

top ▾  Filter Default levels ▾ No Issues 2 hidden 

Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

rerendering and the value of a is 0.. App.jsx:11

rerendering and the value of a is 0.. App.jsx:11

8 rerendering and the value of a is 0.. App.jsx:11

>



13°C Cloudy ENG IN Subscribed 2037 Thu

EXPLORER ...

VIDEO 109

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

App.jsx

```
src > App.jsx > App > useEffect() callback
1 import { useState, useEffect, useRef } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)
8   let a = 0;

9
10  useEffect(() => {
11    a = a + 1
12    console.log(`rerendering and the value of a is ${a}...`)
13  });

14
15
16  return (
17    <>
18    <div>
19      <a href="https://vitejs.dev" target="_blank">
20        <img src={viteLogo} className="logo" alt="Vite logo" />
21      </a>
22      <a href="https://react.dev" target="_blank">
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

8:38:02 pm [vite] hmr update /src/App.jsx (x4)



Vite + React

localhost:5173

Sigma Web Development... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

# Vite + React

count is 20

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder > Default levels ▾ No Issues 2 hidden

Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

rerendering and the value of a is 1..

rerendering and the value of a is 2..

20 rerendering and the value of a is 1..

>

→ because the component got re-rendered & value of 'a' not persist.

react-dom\_client.js?v=d02f0f87:21534

App.jsx:12

App.jsx:12

App.jsx:12



13°C Cloudy ENG IN Thu 20-36

EXPLORER ...

VIDEO 109

- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

1 App.jsx X

src > App.jsx > App > useEffect() callback

```
1 import { useState, useEffect, useRef } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)
8   const a = useRef(0) ←

9
10  useEffect(() => {
11    a.current = a.current + 1 ←
12    console.log(`rerendering and the value of a is ${a.current}`) ←
13  });

14
15
16  return (
17    <>
18    <div>
19      <a href="https://vitejs.dev" target="_blank">
20        <img src={viteLogo} className="logo" alt="Vite logo" />
21      </a>
22      <a href="https://react.dev" target="_blank">
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

8:39:38 pm [vite] hmr update /src/App.jsx (x4)

Ln 12, Col 60 Spaces: 2 UTF-8 LF

1



Vite + React

# Vite + React

count is 10

Edit `src/App.jsx` and save to test HMR

Elements | Console | Sources | Network | Performance | Security | Memory | Application | Lighthouse | Recorder | > |  |  | 

Console

Filter Default levels ▾ | No Issues | 2 hidden 

rerendering and the value of a is 5.. App.jsx:12  
rerendering and the value of a is 6.. App.jsx:12  
rerendering and the value of a is 7.. App.jsx:12  
rerendering and the value of a is 8.. App.jsx:12  
rerendering and the value of a is 9.. App.jsx:12  
rerendering and the value of a is 10.. App.jsx:12  
rerendering and the value of a is 11.. App.jsx:12  
rerendering and the value of a is 12.. App.jsx:12

>



Cloudy 13°C ENG IN Thu 20:30

EXPLORER ...

VIDEO 109

- > node\_modules
- > public
- ✓ src
  - > assets
  - App\_1.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

src > App.jsx > App > useEffect() callback

```
1 import { useState, useEffect, useRef } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)
8   const ref = useRef()

9
10  useEffect(() => [
11    console.log(`First rendering...`)
12    ref.current.style.backgroundColor = "red"
13  ], []);
14
15
16  return (
17    <>
18    <div>
19      <a href="https://vitejs.dev" target="_blank">
20        <img src={viteLogo} className="logo" alt="Vite logo" />
21      </a>
22      <a href="https://react.dev" target="_blank">
```

2



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

8:42:29 pm [vite] hmr update /src/App.jsx (x6)



EXPLORER ...

VIDEO 109

- > node\_modules
- > public
- src
  - > assets
  - App\_1.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

src > App.jsx > App

```
18     <a href="https://vitejs.dev" target="_blank">
19         <img src={viteLogo} className="logo" alt="Vite logo" />
20     </a>
21     <a href="https://react.dev" target="_blank">
22         <img src={reactLogo} className="logo react" alt="React logo" />
23     </a>
24 </div>
25 <h1>Vite + React</h1>
26 <div className="card">
27     <button ref={ref} onClick={() => setCount((count) => count + 1)}>
28         count is {count}
29     </button>
30     <p>
31         Edit <code>src/App.jsx</code> and save to test HMR
32     </p>
33 </div>
34 <p className="read-the-docs">
35     Click on the Vite and React logos to learn more
36 </p>
37 </>
38 )
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

8:42:29 pm [vite] hmr update /src/App.jsx (x6)



useRef - React Vite + React localhost:5173

Sigma Web Development... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

# Vite + React

count is 6

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder > Default levels ▾ No Issues 2 hidden

Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

First rendering.. react-dom\_client.js?v=d02f0f87:21534 App.jsx:11

13°C Cloudy

Search

Cloudy ENG IN

Subscribed 20:13 Thu





EXPLORER

...

VIDEO 109

- > node\_modules
- > public
- src
  - > assets
  - App\_1.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js



&gt; OUTLINE

&gt; TIMELINE

&gt; TASK EXPLORER

&lt; 0 ▲ 0 ⌂ 0



GBP/INR

-0.31%

App.jsx

X

App\_1.jsx

X

main.jsx

X

```
src > App.jsx > App
  24   </a>
  25   </div>
  26   <h1>Vite + React</h1>
  27   <div className="card">
  28     <button ref={btnRef} onClick={() => setCount((count) => count + 1)}>
  29       | count is {count}
  30       </button>
  31     <p>
  32       | Edit <code>src/App.jsx</code> and save to test HMR
  33     </p>
  34   </div>
  35   <p className="read-the-docs">
  36     | Click on the Vite and React logos to learn more
  37   </p>
  38   <button onClick={()=>[btnRef.current.style.display = "none"]}>Change me</button>
  39   </>
  40 }
  41 }
  42
  43 export default App
  44
```

3

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

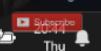
PORTS

8:44:39 pm [vite] hmr update /src/App.jsx

node +



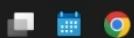
Ln 38, Col 65 Spaces: 2 UTF-8 LF



Search



File



Calendar



Chrome



VS Code



Sheets



Slides



Keep



Photos





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# Vite + React



Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

Change me



useRef - React Vite + React Vite | Next Generation Frontend Tool

react.dev/reference/react/useRef#examples-value Sigma Web Development GitHub - CodeWithHarr... Learn to code online - C... EJS with Express

Support Ukraine Help Provide Humanitarian Aid to Ukraine.

React react@18.2.0

Overview Hooks

use useCallback useContext useDebugValue useDeferredValue useEffect useId useImperativeHandle useInsertionEffect useLayoutEffect useMemo useOptimistic useReducer useRef useState

API REFERENCE > HOOKS >

# useRef

useRef is a React Hook that lets you reference a value that's not needed for rendering.

```
const ref = useRef(initialValue)
```

- Reference
  - `useRef(initialValue)`
- Usage
  - Referencing a value with a ref
  - Manipulating the DOM with a ref
  - Avoiding recreating the ref contents
- Troubleshooting
  - I can't get a ref to a custom component

## Reference

### useRef(initialValue)

Call `useRef` at the top level of your component to declare a `ref`.

```
import { useRef } from 'react';
```

Is this page useful?

ON THIS PAGE

Overview Reference Community Blog

Imp

useRef(initialValue)

Usage Referencing a value with a ref Manipulating the DOM with a ref Avoiding recreating the ref contents Troubleshooting I can't get a ref to a custom component



12°C Cloudy ENG IN Thu 2020

EXPLORER ...

VIDEO 110

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
- index.css
- main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

App.jsx

```
src > App.jsx > App
3 import viteLogo from '/vite.svg'
4 import './App.css'
5
6 function App() {
7   const [count, setCount] = useState(0)
8   const [showbtn, setShowbtn] = useState(false) ←
9
10  return (
11    <>
12      <div>
13        <a href="https://vitejs.dev" target="_blank">
14          <img src={viteLogo} className="logo" alt="Vite logo" />
15        </a>
16        <a href="https://react.dev" target="_blank">
17          <img src={reactLogo} className="logo react" alt="React logo" />
18        </a>
19      </div>
20      <h1>Vite + React</h1>
21      {showbtn ? <button>I will be shown only when second button is clicked</button> : ""} ←
22      <div className="card">
23        <button onClick={() => setCount((count) => count + 1)}>
24          count is {count}
25        </button>
26        <p>
27          Edit <code>src/App.jsx</code> and save to test HMR
28        </p>
29      </div>
30      <p className="read-the-docs">
31        Click on the Vite and React logos to learn more
32      </p>
33    </>
)
```

# Conditional Rendering



EXPLORER ...

VIDEO 110

- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

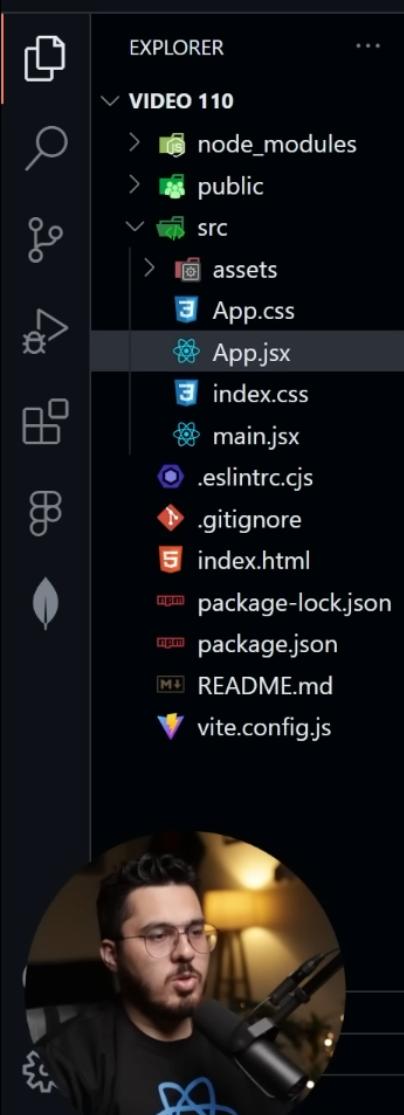


App.jsx

```
src > App.jsx > App
  const [count, setCount] = useState(0)
  const [showbtn, setShowbtn] = useState(false)

  return (
    <>
      <div>
        <a href="https://vitejs.dev" target="_blank">
          <img src={viteLogo} className="logo" alt="Vite logo" />
        </a>
        <a href="https://react.dev" target="_blank">
          <img src={reactLogo} className="logo react" alt="React logo" />
        </a>
      </div>
      <h1>Vite + React</h1>
      {showbtn ? <button>Showbtn is true</button> : <button>Showbtn is false</button>}
      /* {showbtn && <button>Showbtn is true</button>} */
      <div className="card">
        <button onClick={() => setShowbtn(!showbtn)}>
          Toggle Showbtn
        </button>
        <p>
          Edit <code>src/App.jsx</code> and save to test HMR
        </p>
      </div>
    </>
  )
}
```

1 {showbtn ? <button>Showbtn is true</button> : <button>Showbtn is false</button>} ←  
2 /\* {showbtn && <button>Showbtn is true</button>} \*/



App.jsx

```
src > App.jsx > App > [Todo]
  5   import viteLogo from '/vite.svg'
  4   import './App.css'
  5
 6   function App() {
 7     const [count, setCount] = useState(0)
 8     const [showbtn, setShowbtn] = useState(false)
 9
10    const Todo = () => { 3 ←
11      return (<>
12        <div className="todo">I am todo</div></>)
13    }
14
15    return (
16      <>
17        <div>
18          <a href="https://vitejs.dev" target="_blank">
19            <img src={viteLogo} className="logo" alt="Vite logo" />
20          </a>
21          <a href="https://react.dev" target="_blank">
22            <img src={reactLogo} className="logo react" alt="React logo" />
23          </a>
24        </div>
25      </>
26    )
27  }
28
```



EXPLORER

...

VIDEO 110

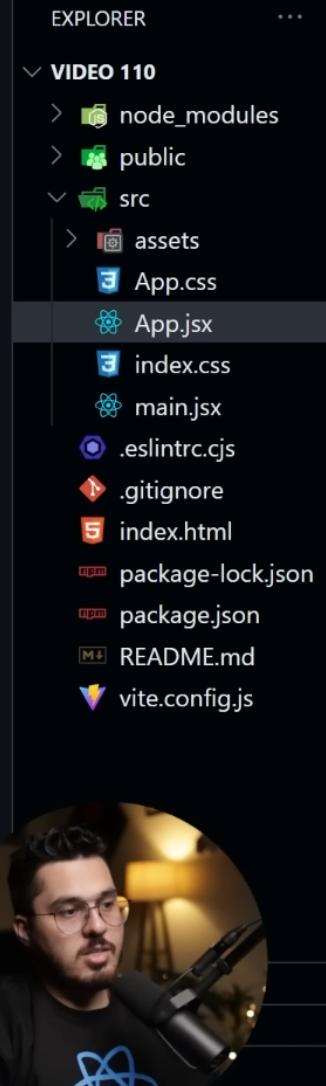
- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



App.jsx X

src > App.jsx > App

```
14
15
16    return (
17        <>
18            <div>
19                <a href="https://vitejs.dev" target="_blank">
20                    <img src={viteLogo} className="logo" alt="Vite logo" />
21                </a>
22                <a href="https://react.dev" target="_blank">
23                    <img src={reactLogo} className="logo react" alt="React logo" />
24                </a>
25            </div>
26            <h1>Vite + React</h1>
27            {showbtn ? <button>showbtn is true</button> : <button>showbtn is false</button>}
28            {/* {showbtn && <button>showbtn is true</button>} */}
29            <Todo /> ←
30            <div className="card">
31                <button onClick={() => setShowBtn(!showbtn)}>
32                    Toggle showbtn
33                </button>
34                <p>
```



App.jsx

```
src > App.jsx > App > Todo
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)
8   const [showbtn, setShowbtn] = useState(false)
9   const [todos, setTodos] = useState([
10     {
11       title: "Hey",
12       desc: "I am a good todo"
13     },
14     {
15       title: "Hey Another todo",
16       desc: "I am a good todo too"
17     },
18     {
19       title: "Hey I am grocery todo",
20       desc: "I am a good todo but I am grocery todo"
21     },
22   ])
23
24
25   const Todo = ({todo}) => {
26     return [
27       <div className="todo">{todo.title}</div>
28       <div className="todo">{todo.desc}</div>
29     ]
30   }
31 }
```

# Rendering Lists



I



1

EXPLORER ...

VIDEO 110

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js



App.jsx x

src > App.jsx > App > todos.map() callback

```
        alt="React logo" />
    41      </a>
    42    </div>
    43  <h1>Vite + React</h1>
    44  {showbtn ? <button>showbtn is true</button> :
    45    <button>showbtn is false</button>}
    46    /* {showbtn && <button>showbtn is true</button>} */
    47  {todos.map(todo=>{ ←
    48    return <Todo todo={todo}>/> X
    49  })}
    50  <div className="card">
    51    <button onClick={() => setShowBtn(!showBtn)}>
    52      Toggle showbtn
    53    </button>
    54    <p>
```

Ln 48, Col 33 Spaces: 2 UTF-8 LF {} JavaScript JSX

Sigma Web Development Course - W | Vite + React | Framework Guides - Tailwind CSS | tailwindcss.com/docs/installation/framework-guides

Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

tailwindcss v3.4.1 Tailwind CSS v3.4 · Dynamic viewport units, :has(), subgrid, and more Docs Components Blog Showcase

# GET STARTED WITH TAILWIND CSS

Tailwind CSS works by scanning all of your HTML files, JavaScript components, and any other templates for class names, generating the corresponding styles and then writing them to a static CSS file.

It's fast, flexible, and reliable — with zero-runtime.

## Installation

Tailwind CLI Using PostCSS Framework Guides Play CDN

Framework-specific guides that cover our recommended approach to installing Tailwind CSS in a number of popular environments.

**Next.js** Full-featured React framework with great developer experience.

**Nuxt** Intuitive Vue framework for building universal applications.

**SvelteKit** The fastest way to build apps of all sizes with Svelte.js.

**Remix** Full stack framework focused on web fundamentals and modern UX.

**Symfony** A PHP framework to create websites

**Laravel** PHP web application framework with expressive, elegant syntax.

**Gatsby** Framework for building static sites with React and GraphQL.

**Angular** Platform for building mobile and desktop web applications.

**Phoenix** A framework to build rich, interactive applications with Elixir.

**Meteor** The full stack JavaScript framework

**Vite** Fast and modern development server and build tool.

**SolidJS** A tool for building simple, performant, and reactive user interfaces.

**Ruby on Rails** Full-stack framework with all the tools needed to build amazing web apps.

**Parcel** The zero-configuration build tool for the web.

**Create React App** CLI tool for scaffolding a new single-

Getting Started

Installation

Editor Setup

Using with Preprocessors

Optimizing for Production

Browser Support

Upgrade Guide

Core Concepts

Utility-First Fundamentals

Hover, Focus, and Other States

Responsive Design

Dark Mode

Reusing Styles

Adding Custom Styles

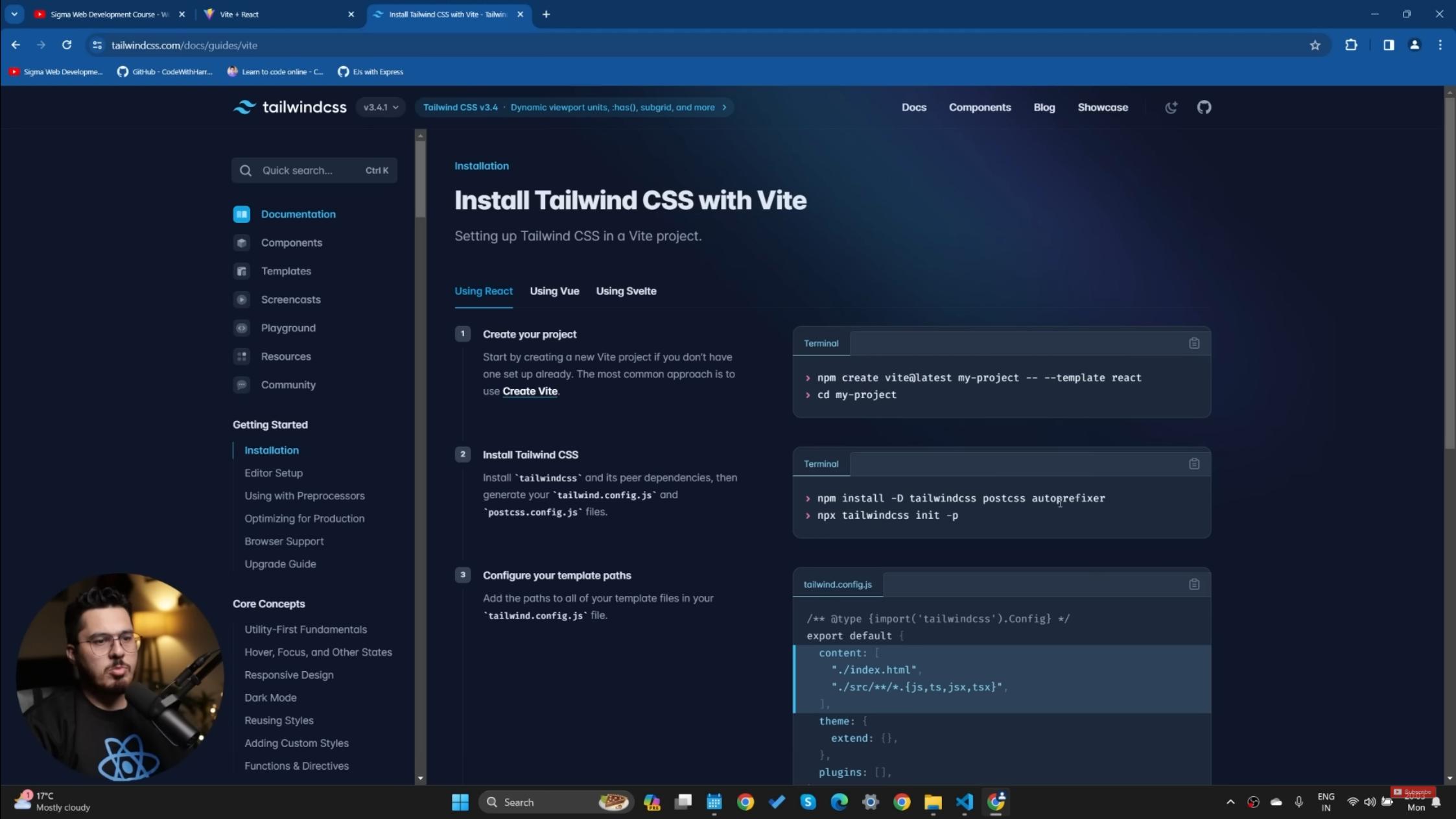
Functions & Directives

17°C Mostly cloudy

Search

ENG IN

Subscribe 2005 Mon



Sigma Web Development Course - W Vite + React Install Tailwind CSS with Vite - Tailwind

localhost:5173

Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

# Vite + React

showbtn is false

Hey  
I am a good todo

Hey Another todo  
I am a good todo too

Hey I am grocery todo  
I am a good todo but I am grocery todo

Toggle showbtn

Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder > x 1 ⚙️ ⋮ X

top ▾ Filter Default levels ▾ No Issues 4 hidden ⚙️

Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

react-dom\_client.js?v=f6696ac0:21534

Warning: Each child in a list should have a unique "key" prop. ← App.jsx:36

Check the render method of `App`. See <https://reactjs.org/link/warning-keys> for more information.

http://localhost:5173/src/App.jsx:42:19  
//localhost:5173/src/App.jsx:24:29



17°C Mostly cloudy

Search

ENG IN

Subtitles 2005 Mon

The image shows a screenshot of the Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar with a video player at the bottom. The main area displays a file named `App.jsx` with the following code:

```
45 <h1>Vite + React</h1>
46 {showbtn ? <button>showbtn is true</button> : <button>showbtn is false</button>}
47 {/* {showbtn && <button>showbtn is true</button>} */}
48
49 {todos.map(todo=>{
50   return <Todo key={todo.title} todo=
51     (property) title: * ⌂ title
52     string
53     <div classname= card">
      <button onClick={() => setshowbtn
```

A pink checkmark is drawn over the closing brace of the `/* {showbtn && <button>showbtn is true</button>} */` block. A tooltip is visible over the `key` prop in the `<Todo` component, showing the type `string`. The status bar at the bottom indicates the code is at line 50, column 37, with 2 spaces, using UTF-8 encoding, and is a JavaScript/JSX file.

EXPLORER ...

VIDEO 110

- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css 3
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - postcss.config.js
  - README.md
  - tailwind.config.js
  - vite.config.js

App.jsx x index.html tailwind.config.js index.css 3 package.json

src > App.jsx > App > todos.map() callback

```
45     <h1>Vite + React</h1>
46     {showbtn ? <button>showbtn is true</button> : <button>showbtn is
47       false</button>}
48     /* {showbtn && <button>showbtn is true</button>} */
49     {todos.map(todo => {
50       // return <Todo key={todo.title} todo={todo}/>
51       return <div key={todo.title} className="m-4 border border-1
52         border-purple-400">
53           <div className="todo">{todo.title}</div>
54           <div className="todo">{todo.desc}</div>
55         </div>
56     })
57     <div className="card">
58       <button onClick={() => setshowbtn(!showbtn)}>
59         Toggle showbtn
60       </button>
61       <p>
62         Edit <code>src/App.jsx</code> and save to test HMR
```

Ln 51, Col 36 Spaces: 2 UTF-8 LF {} JavaScript JSX

EUR/INR -0.40%

Search

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## Event listeners

src > App.jsx > App

```
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'
5
6 function App() {
7   const [count, setCount] = useState(0)
8   // const [name, setName] = useState("Harry")
9   const [form, setForm] = useState({email: "", phone: ""})
10
11  const handleClick = () => {
12    alert("Hey I am clicked")
13  }
14
15  const handleMouseOver = () => {
16    alert("Hey I am a mouse over")
17  }
18
19  const handleChange = (e) => {
20    // setName(e.target.value)
21    setForm({...form, [e.target.name]: e.target.value})
22    console.log(form)
23  }
24
25  return (
26    <>
27      <div className="button">
28        <button onClick={handleClick}>Click me</button>
```

1

EXPLORER ...

VIDEO 112

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

App.jsx x index.css

src > App.jsx > App

```
15  const handleMouseOver = () => {
16    alert("Hey I am a mouse over")
17  }
18
19  const handleChange = (e) => {
20    // setName(e.target.value)
21    setForm({...form, [e.target.name]:e.target.value})
22    console.log(form)
23  }
24
25  return (
26    <>
27      <div className="button">
28        <button onClick={handleClick}>Click me</button>
29      </div>
30
31      {/* <div className="red" onMouseOver={handleMouseOver}>
32        I am a red div
33      </div> */}
34
35      <input type="text" name='email' value={form.email} onChange={handleChange} />
36      <input type="text" name='phone' value={form.phone} onChange={handleChange} />
37    </>
38  )
39}
40
41 export default App
```

EXPLORER ...

VIDEO 112

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

App.jsx x index.css

```
src > App.jsx > App
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'

5
6 function App() {
7   const [count, setCount] = useState(0)
8   // const [name, setName] = useState("Harry")
9   const [form, setForm] = useState({}) ← 2
10
11   const handleClick = () => {
12     alert("Hey I am clicked")
13   }
14
15   const handleMouseOver = () => {
16     alert("Hey I am a mouse over")
17   }
18
19   const handleChange = (e) => {
20     // setName(e.target.value)
21     setForm({...form, [e.target.name]: e.target.value})
22     console.log(form)
23   }
24
25   return (
26     <>
27       <div className="button">
28         <button onClick={handleClick}>Click me</button>
```

Ln 9, Col 37 Spaces: 2 UTF-8 LF {} JavaScript JSX



Click me

Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder ▾ > ✘ 1 📈 2 ⚙️ ⋮ X

Filter Default levels ▾ 2 Issues: 📈 2 2 hidden ⚙️

Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools> react-dom\_client.js?v=ad6d33fa:21534

▶ {} App.jsx:22

✖ Warning: A component is changing an uncontrolled input to be controlled. This is likely caused by the value react-dom\_client.js?v=ad6d33fa:519 changing from undefined to a defined value, which should not happen. Decide between using a controlled or uncontrolled input element for the lifetime of the component. More info: <https://reactjs.org/link/controlled-components>

at input  
at App (<http://localhost:5173/src/App.jsx?t=1707320927287:24:29>)

▶ {email: 's'}  
▶ {email: 'sd'}  
▶ {email: 'sdf'}  
▶ {email: 'sdfd'}



EXPLORER ...

VIDEO 112

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

App.jsx x index.css

```
src > App.jsx > App
19  const handleChange = (e) => {
20    // setName(e.target.value)
21    setForm({...form, [e.target.name]:e.target.value})
22    console.log(form)
23  }
24
25  return (
26    <>
27      <div className="button">
28        <button onClick={handleClick}>Click me</button>
29      </div>
30
31      {/* <div className="red" onMouseOver={handleMouseOver}>
32        I am a red div
33      </div> */}
34
35      <input type="text" name='email' value={form?.email} onChange={handleChange} />
36      <input type="text" name='phone' value={form?.phone} onChange={handleChange} />
37    </>
38  )
39}
40
41 export default App
42
```

2.1





EXPLORER

...

VIDEO 112

- > node\_modules
- > public
- > src
  - > assets
    - App.css
    - App.jsx
    - index.css
    - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

> OUTLINE

> TIMELINE

> TASK EXPLORER

```
App.jsx x index.cs
src > App.jsx > App
15 const handleMouseOver = () => {
16   alert("Hey I'm over you!")
17 }
18
19 const handleChangeName = (e) => {
20   // setName(e.target.value)
21   setForm({ ...form, name: e.target.value })
22   console.log(form)
23 }
24
25 return (
26   <>
27   <div className="App">
28     <button onClick={handleClick}>
29       Click me
30     </button>
31     /* <div className="App__info">
32       I am a real component!
33     </div> */
34   </div>
35   <input type="text" />
36   <input type="password" />
37   </>
38 )
39 }
40
41 export default App
```

```
s  
useOver =  
am a mou  
  
nchange = (e  
target.  
form, [e  
form)  
  
name="but  
onClick=  
  
className=  
ed div  
  
e="text"  
e="text"  
  
op
```

```
= () =>  
use over  
  
e) => {  
value)  
.target.  
  
tton">  
[handleC  
  
="red" o  
  
name='e  
name='p
```

```
{  
")  
  
name]:e.  
  
lick}>Cl  
  
nMouseOv  
  
mail' va  
hone' va
```

```
value})  
  
<button>  
  
idleMouse  
  
rm.email  
rm.phone
```

```
?Over}>  
  
?form.em  
?form.ph
```

email: "" }  
phone: "" }

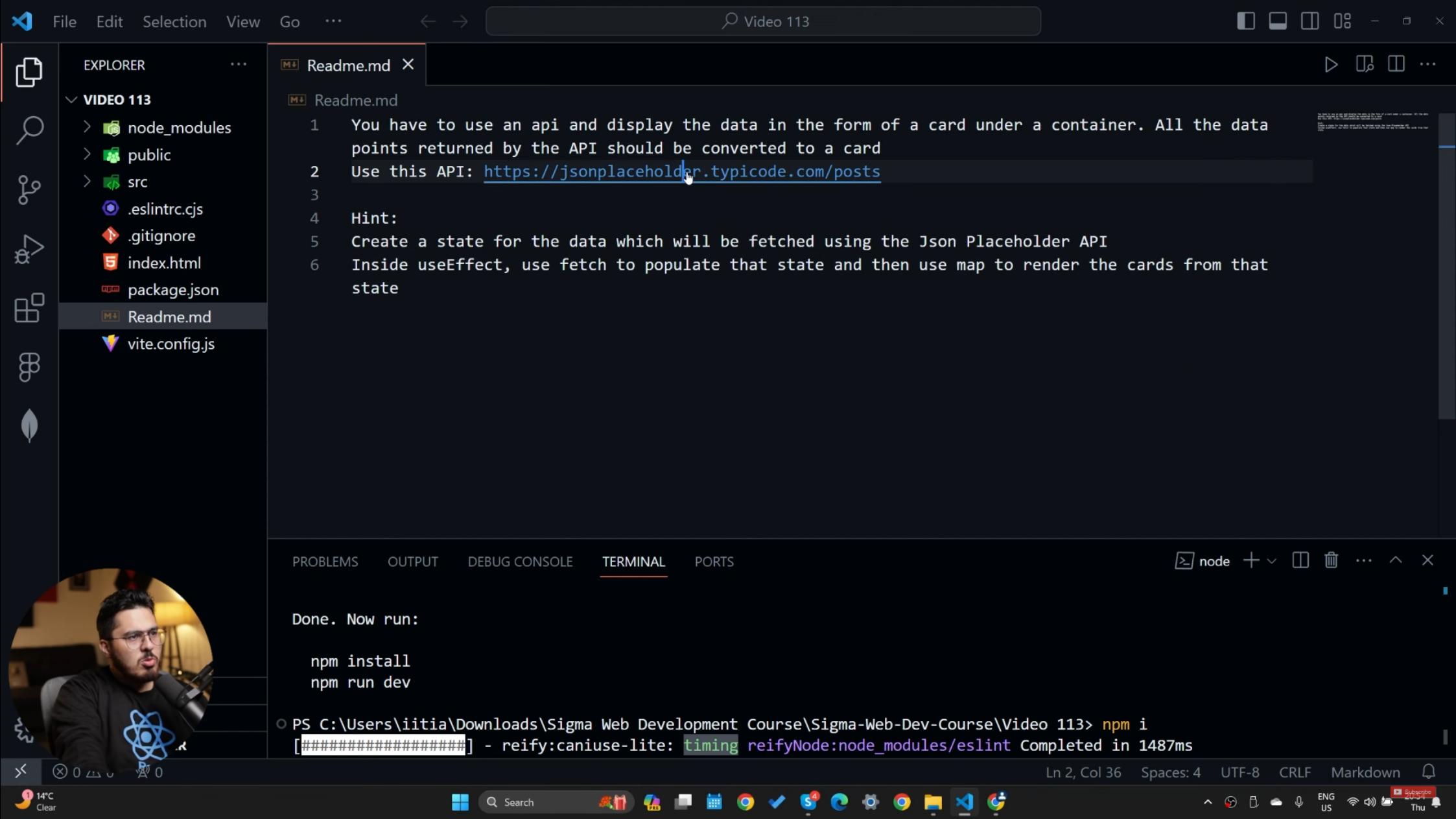
2 onChang onChang

ge={hand  
ge={hand

leChange  
leChange

10

```
    if (length > 1000) {
        return "The string is too long";
    }
    else if (length < 100) {
        return "The string is short";
    }
    else {
        return "The string is medium length";
    }
}
```





EXPLORER ...

VIDEO 113

- > node\_modules
- > public
- < src
  - > assets
  - < components
    - Navbar.jsx
    - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- Readme.md
- vite.config.js

src > App.jsx > ...

```
1 import { useState, useEffect } from 'react'
2 import Navbar from './components/Navbar'
3 import './App.css'
4
5 function App() {
6   const [cards, setCards] = useState([])
7
8   const fetchData = async () => {
9     let a = await fetch("https://jsonplaceholder.typicode.com/posts")
10    let data = await a.json()
11    setCards(data)
12    console.log(data)
13  }
14
15  useEffect(() => {
16    fetchData()
17  }, [])
18
19
20  return (
21    <>
22    <Navbar/>
```

Ln 2, Col 14 Spaces: 2 UTF-8 LF {} JavaScript JSX

EXPLORER ...

VIDEO 1... 🎥 ⏷ ⏵ ⏵

node\_modules

public

src

assets

components/Navbar.jsx

App.css

App.jsx

index.css

main.jsx

.eslintrc.cjs

.gitignore

index.html

package-lock.json

package.json

Readme.md

vite.config.js

10 let a = await fetch("https://jsonplaceholder.typicode.com/posts")  
11 let data = await a.json()  
12 setCards(data)  
13 console.log(data)  
14 }  
15  
16 useEffect(() => {  
17 fetchData()  
18 }, [])  
19  
20  
21 return (  
22 <>  
23 <div className="container">  
24 {cards.map((card)=>{  
25 return <div key={card.id} className="card">  
26 <h1>{card.title}</h1>  
27 <p>{card.body}</p>  
28 <span>By: UserId: {card.userId} </span>  
29 </div>  
30 })}  
31 </div>  
32 </>  
33 </div>  
34 </>



EXPLORER ... node App.jsx Navbar.jsx X

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2
3 const Navbar = () => {
4     return (
5         <div>
6             <nav>
7                 <a href="/"><li>Home</li></a>
8                 <a href="/"><li>About</li></a>
9                 <a href="/"><li>Contact</li></a>
10            </nav>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 115> npm i react-router-dom  
[.....] \ idealTree:Video 115: sill idealTree buildDeps



Vite + React Tutorial v6.22.0 | React Router

reactrouter.com/en/main/start/tutorial

YouTube Sigma Web Development GitHub - CodeWithHarr... Learn to code online - C... Els with Express

# React Router

main

Router on the page.

## Create and render a browser router in `main.jsx`

```
src/main.jsx
1 import * as React from "react";
2 import * as ReactDOM from "react-dom/client";
3 import {
4   createBrowserRouter,
5   RouterProvider,
6 } from "react-router-dom";
7 import "./index.css";
8
9 const router = createBrowserRouter([
10   {
11     path: "/",
12     element: <div>Hello world!</div>,
13   },
14 ]);
15
16 ReactDOM.createRoot(document.getElementById("root")).render(
17   <React.StrictMode>
18     <RouterProvider router={router} />
19   </React.StrictMode>
20 );
```

This first route is what we often call the "root route" since the rest of our routes will render inside of it. It will serve as the root layout of the UI, we'll have nested layouts as we get farther along.

## The Root Route

Let's add the global layout for this app.

## Create `src/routes` and `src/routes/root.jsx`

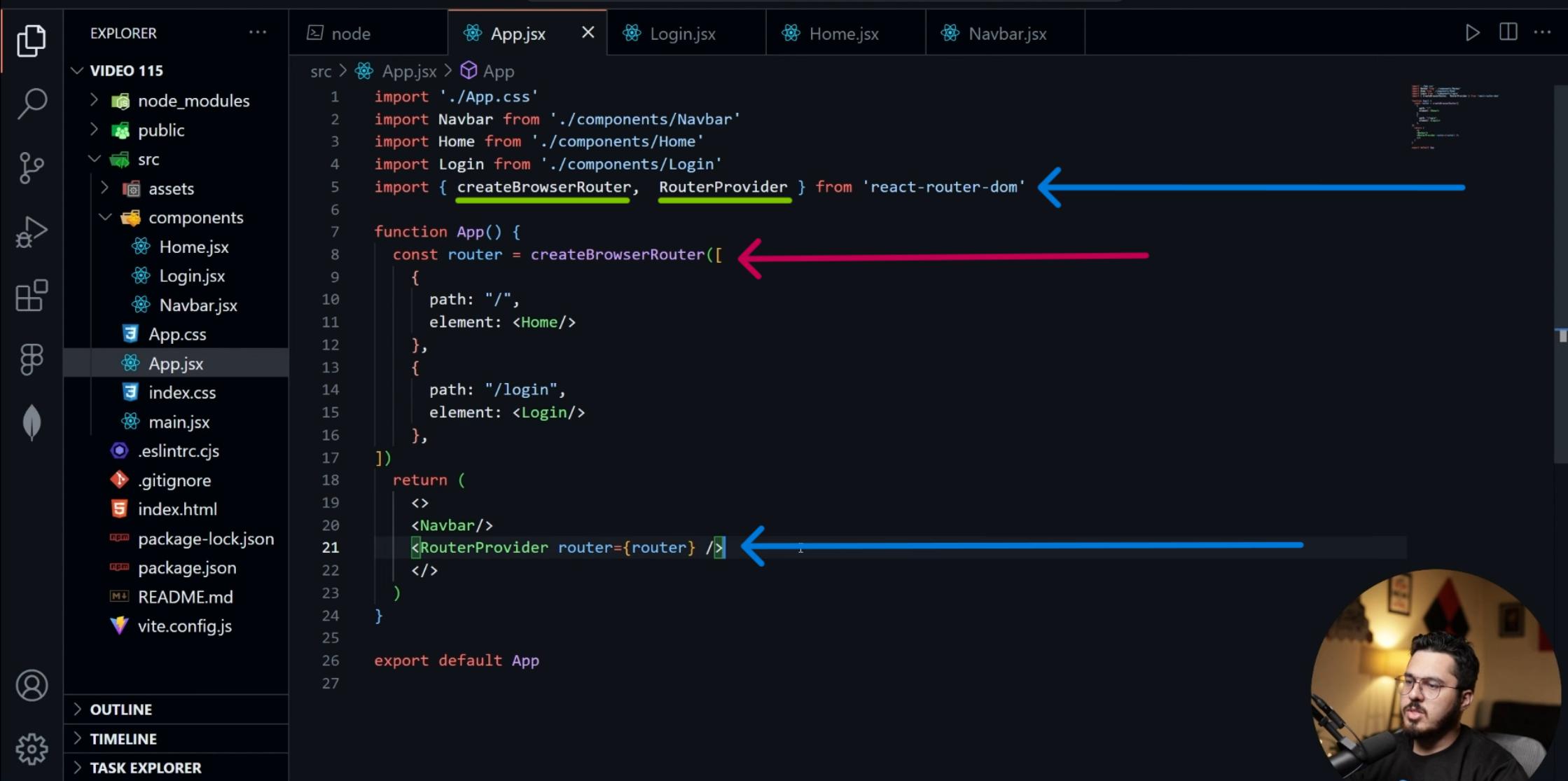
```
mkdir src/routes
touch src/routes/root.jsx
```

## On this page

- Setup
- Adding a Router
- The Root Route
- Handling Not Found Errors
- The Contact Route UI
- Nested Routes
- Client Side Routing
- Loading Data
- Data Writes + HTML Forms
- Creating Contacts
- URL Params in Loaders
- Updating Data
- Updating Contacts with FormData
- Mutation Discussion
- Redirecting new records to the edit page
- Active Link Styling
- Global Pending UI
- Deleting Records
- Contextual Errors
- Index Routes
- Cancel Button
- URL Search Params and GET Submissions
- GET Submissions with Client Side Routing
- Synchronizing URLs to Form State
- Submitting Forms onChange



24°C Mostly sunny ENG IN 10:34 Wed



EXPLORER ... node App.jsx × About.jsx Login.jsx Home.jsx Navbar.jsx ×

VIDEO 115

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2
3 const Navbar = () => {
4
5     return (
6         <div>
7             <nav>
8                 <a href="/"><li>Home</li></a>
9                 <a href="/about"><li>About</li></a>
10                <a href="/login"><li>Login</li></a>
11            </nav>
12        </div>
13    )
14}
15
16 export default Navbar
17
```

Page Reloads here



EXPLORER ... node App.jsx About.jsx Login.jsx Home.jsx Navbar.jsx

VIDEO 115

> node\_modules  
> public  
src  
> assets  
components  
  About.jsx  
  Home.jsx  
  Login.jsx  
  Navbar.jsx

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2 import { Link } from 'react-router-dom' ←
3
4 const Navbar = () => {
5
6   return (
7     <div>
8       <nav>
9         <Link to="/"><li>Home</li></Link> [ ]
10        <Link to="/about"><li>About</li></Link>
11        <Link to="/login"><li>Login</li></Link>
12      </nav>
13    </div>
14  )
15 }
16
17 export default Navbar
```

No Page Reloads



Dimensions: Responsive ▾

562

x 934

47% ▾

No throttling ▾



Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder Performance insights

Filter

Default levels ▾ No Issues 2 hidden

3 The above error occurred in the <Link> component:

chunk-MCEUSTYS.js?v=527c362b:14034

```
at LinkWithRef (http://localhost:5173/node_modules/.vite/deps/react-router-dom.js?t=1707909740533&v=527c362b:4765:5)
at nav
at div
at Navbar
at App
```

Consider adding an error boundary to your tree to customize error handling behavior.  
Visit <https://reactjs.org/link/error-boundaries> to learn more about error boundaries.



✗ Uncaught TypeError: Cannot destructure property 'basename' of 'React2.useContext(...)' as it is null.
 at LinkWithRef (react-router-dom.js?...3&v=527c362b:4776:5)
 at renderWithHooks (chunk-MCEUSTYS.js?v=527c362b:12169:26)
 at updateForwardRef (chunk-MCEUSTYS.js?v=527c362b:14325:28)

chunk-MC

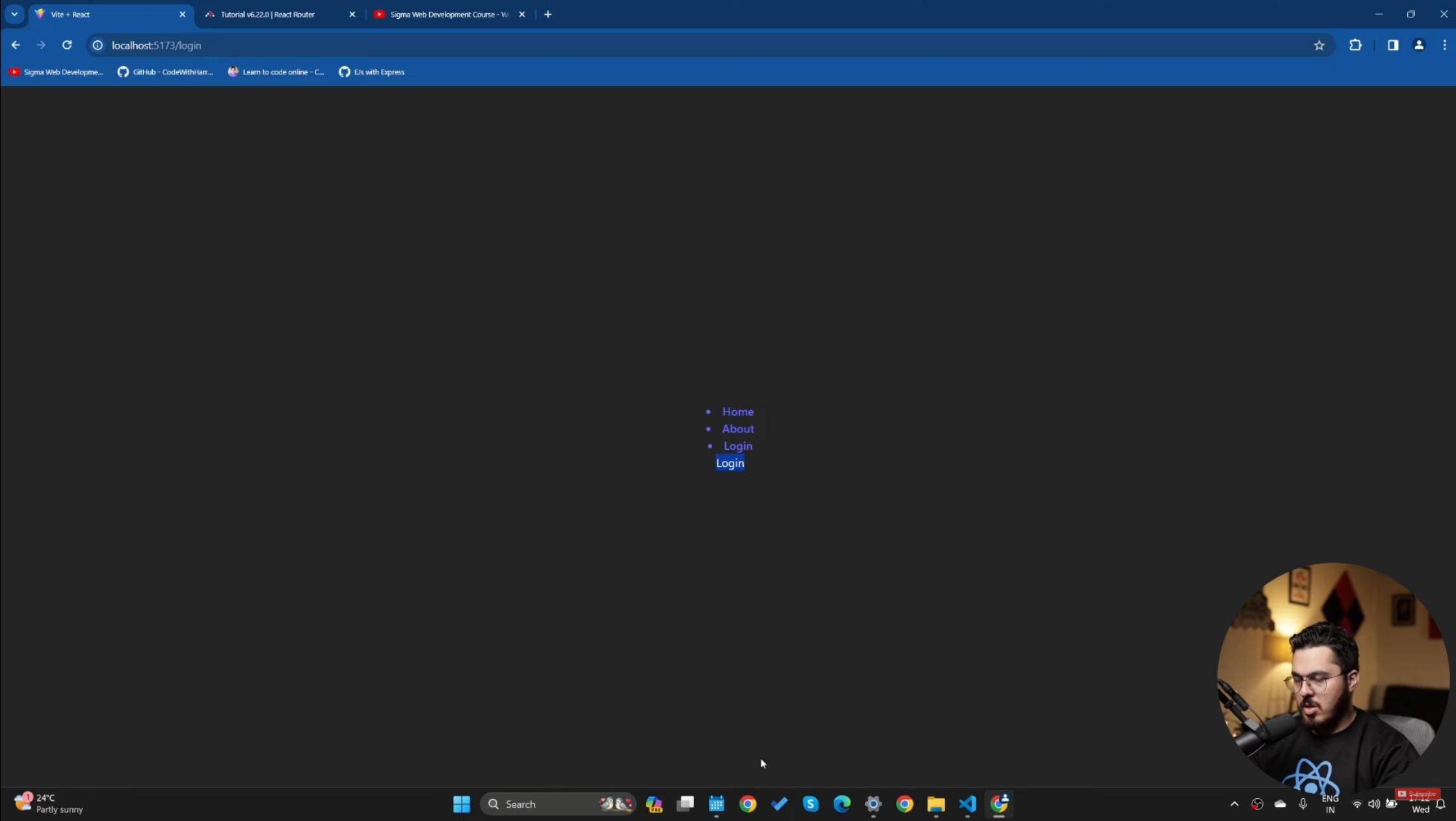
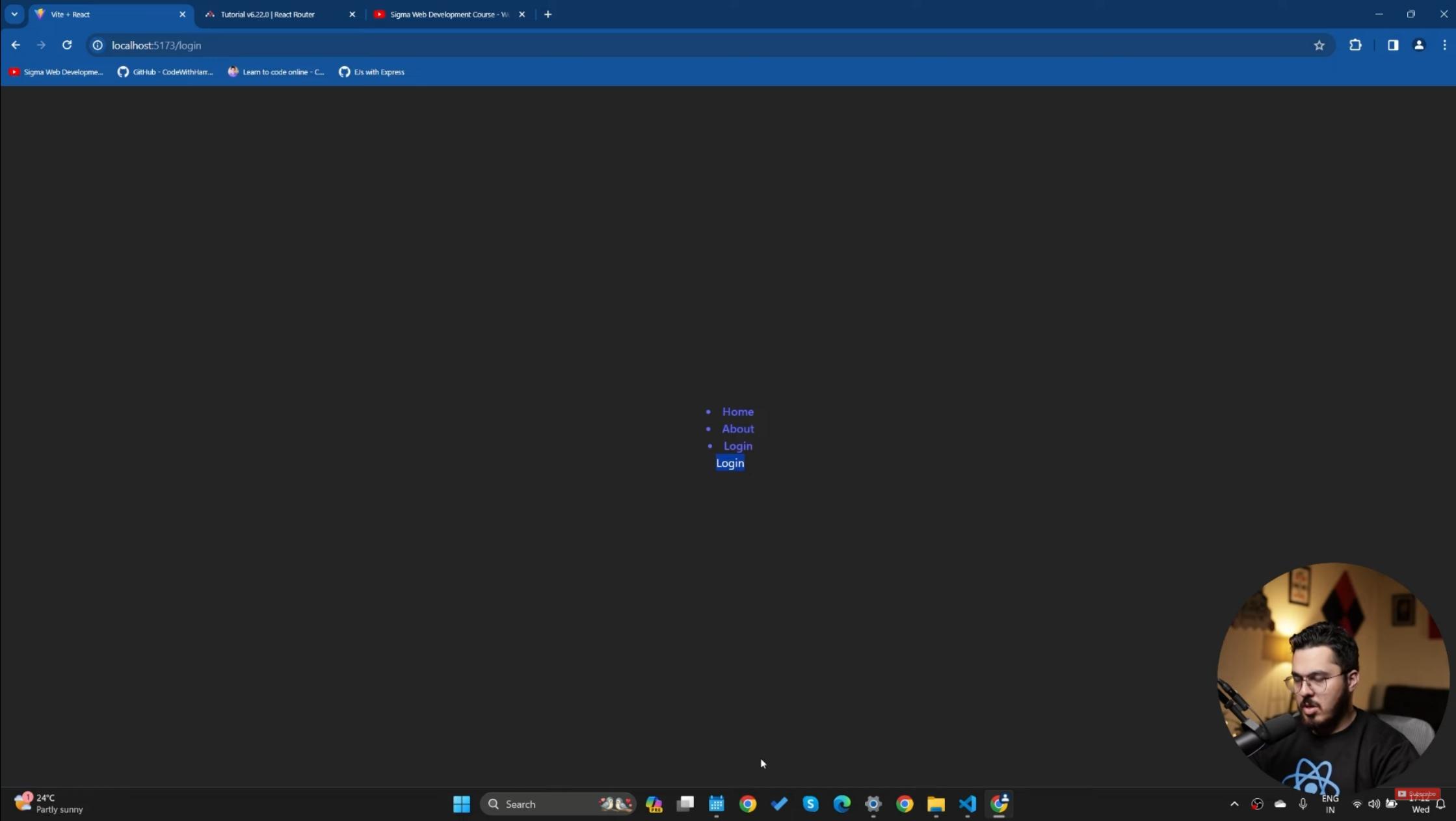
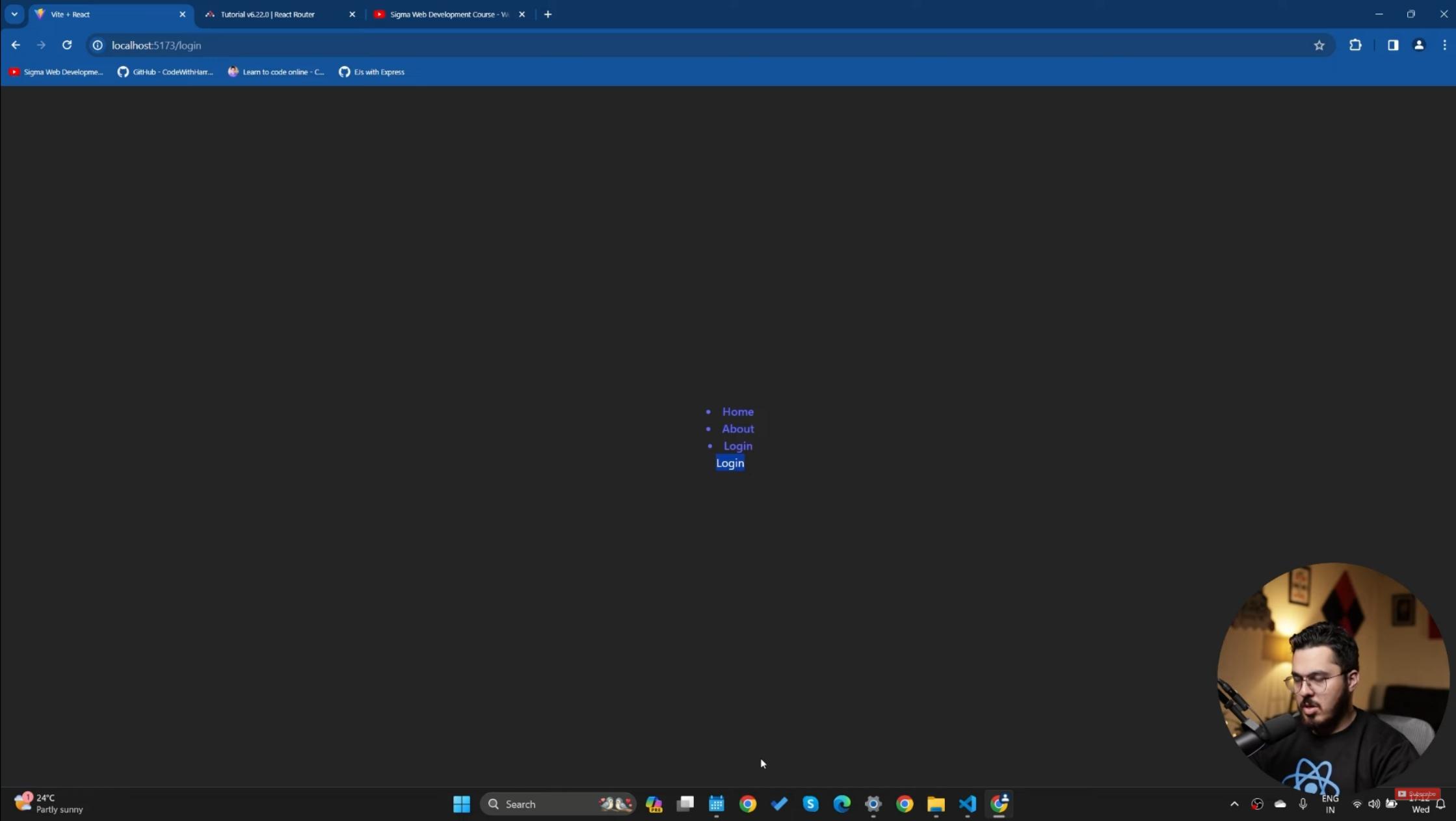
EXPLORER ... node App.jsx X main.jsx About.jsx Login.jsx Home.jsx Navbar.jsx ⌂ ...

src > App.jsx > App > router > element

```
7
8 function App() {
9   const router = createBrowserRouter([
10     {
11       path: "/",
12       element: <><Navbar /><Home /></>
13     },
14     {
15       path: "/login",
16       element: <><Navbar /><Login /></>
17     },
18     {
19       path: "/about",
20       element: <><Navbar /><About /></>
21     },
22   ])
23   return (
24     <>
25       <RouterProvider router={router} />
26     </>
27   )
28 }
29
30 }
31
32 export default App
33
```

We generally do it in main.jsx .. in this





EXPLORER ... node App.jsx User.jsx X main.jsx About.jsx Login.jsx Home.jsx ⌂ ...

src > components > User.jsx > [User]

```
1 import React from 'react'
2 import { useParams } from 'react-router-dom' ←
3
4 const User = () => {
5     const params = useParams() ←
6     return (
7         <div>
8             I am user {params.username} ←
9         </div>
10    )
11 }
12
13 export default User
14
```



x 0 ▲ 0 ⌂ 0

24°C Partly sunny

EXPLORER ...

VIDEO 115

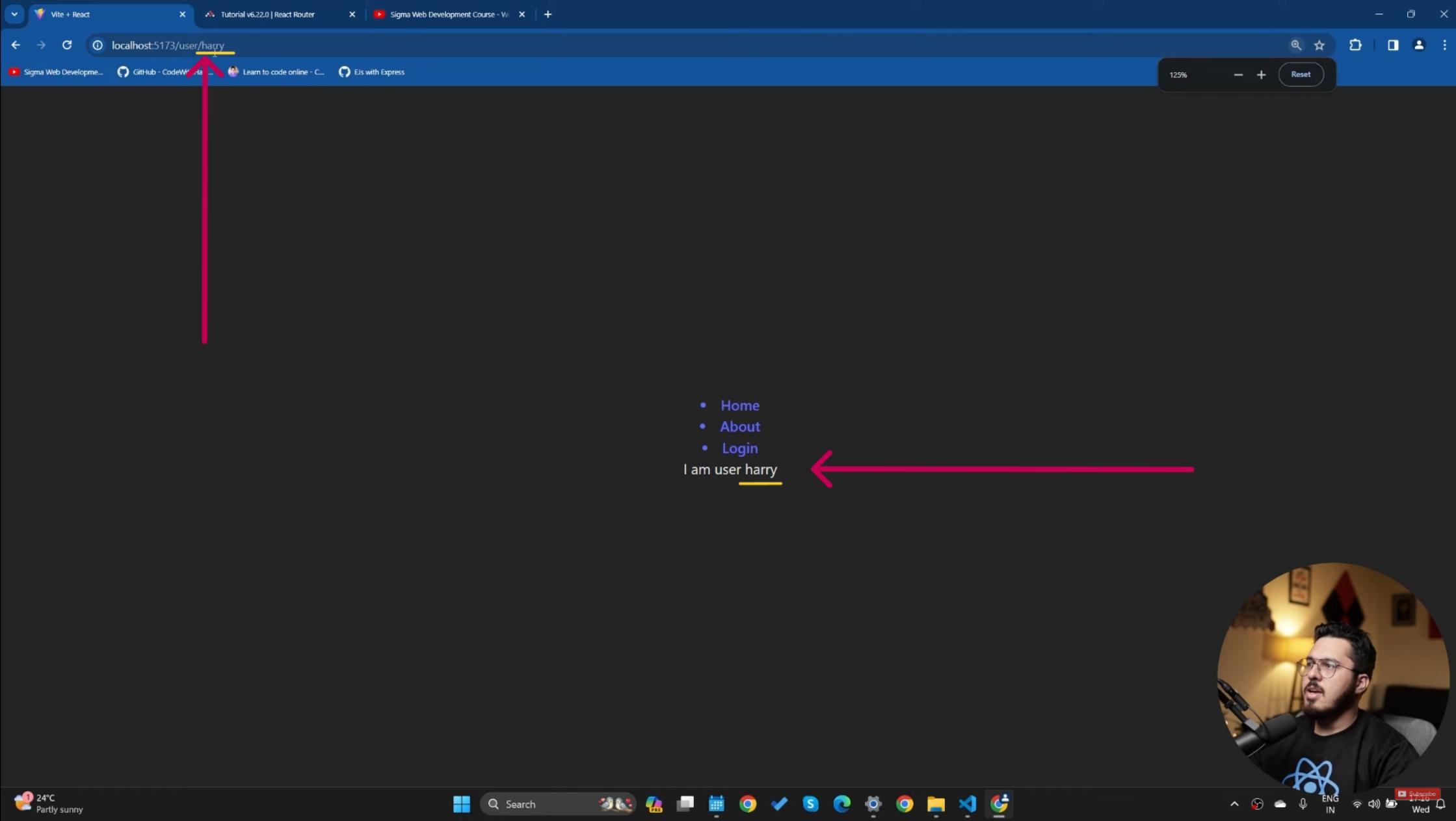
- > node\_modules
- > public
- src
  - > assets
  - components
    - About.jsx
    - Home.jsx
    - Login.jsx
    - Navbar.jsx
    - User.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

node App.jsx × User.jsx × main.jsx About.jsx Login.jsx Home.jsx

src > App.jsx > App > router > path

```
13     },
14     {
15       path: "/login",
16       element: <><Navbar /><Login /></>
17     },
18     {
19       path: "/about",
20       element: <><Navbar /><About /></>
21     },
22     {
23       path: "/user/:username", ←
24       element: <><Navbar /><User /></>
25     },
26   ],
27   return (
28     <>
29       <RouterProvider router={router} />
30     </>
31   )
32 }
```





File Edit Selection View Go ... ← → ⌂ Video 115

EXPLORER ...

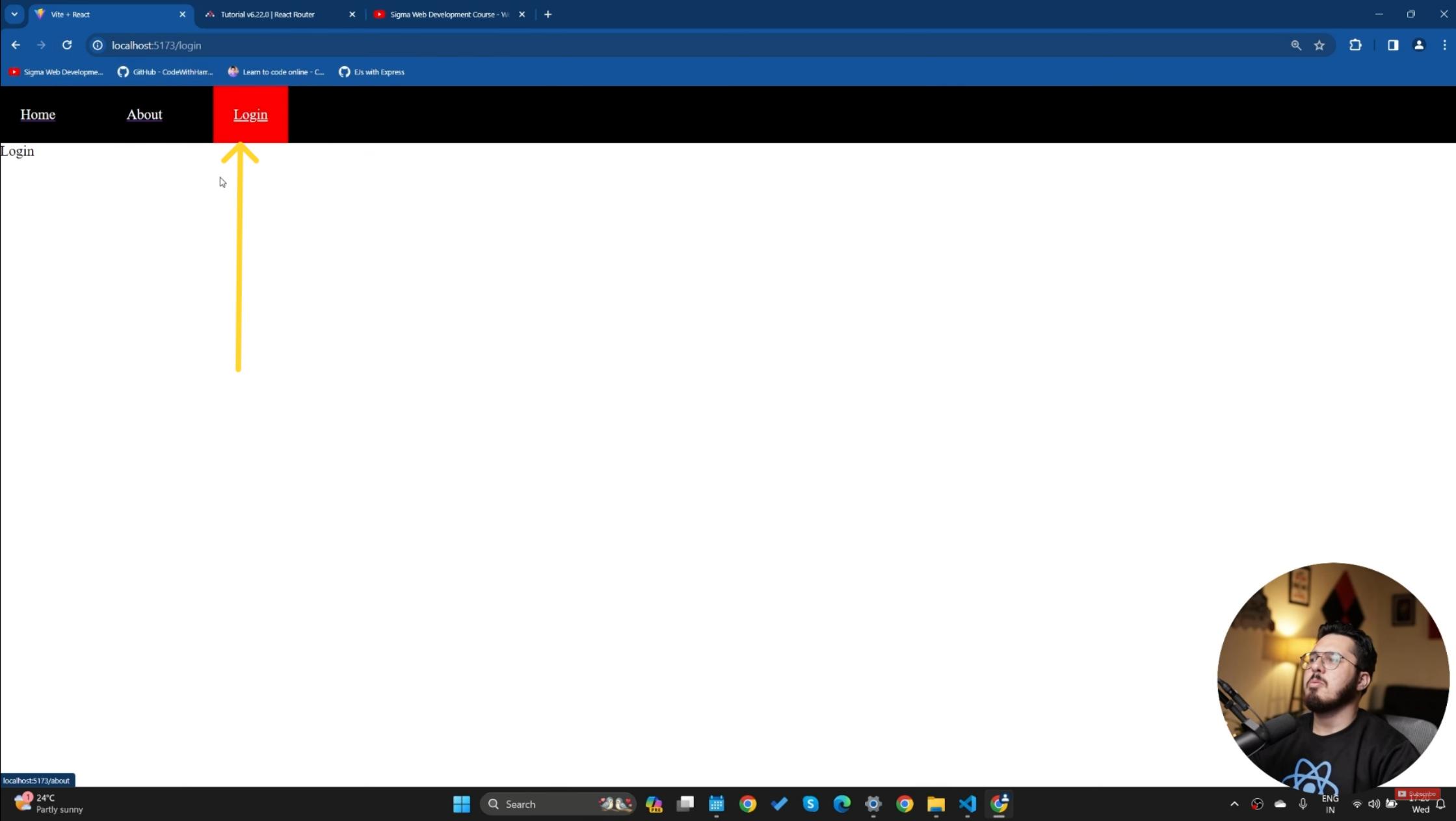
VIDEO 115

- > node\_modules
- > public
- ✓ src
  - > assets
  - ✓ components
    - About.jsx
    - Home.jsx
    - Login.jsx
    - Navbar.jsx
    - User.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

index.css User.jsx main.jsx About.jsx Login.jsx Home.jsx Navbar.jsx

```
src > components > Navbar.jsx > Navbar
  1 import React from 'react'
  2 import { NavLink } from 'react-router-dom' ←
  3
  4 const Navbar = () => {
  5
  6   return (
  7     <div>
  8       <nav>
  9         <NavLink className={({e})=>{return e.isActive?'red': ""}} to="/"><li>Home</li></NavLink>
 10        <NavLink className={({e})=>{return e.isActive?'red': ""}} to="/about"><li>About</li></NavLink>
 11        <NavLink className={({e})=>{return e.isActive?'red': ""}} to="/login"><li>Login</li></NavLink>
 12      </nav>
 13    </div>
 14  )
 15
 16
 17 export default Navbar
 18
```

LN 11, COL 23 Spaces: 4 UTF-8 CRL ENG IN Subscribers: 17,409 Wed



Login

Home

About

Login



localhost:5173/about



Search



24°C  
Partly sunny

Search

ENG IN

17:40

Wed

Vite + React Tutorial v6.22.0 | React Router Sigma Web Development Course - W...

reactrouter.com/en/main/start/tutorial

Learn to code online - C... GitHub - CodeWithHarr... EJS with Express

React Router main

Made by Remix

Getting Started

- Feature Overview
- Tutorial
- Examples
- FAQs
- Main Concepts

Upgrading

- Migrating to RouterProvider
- Upgrading from v5
- Migrating from @reach/router

Routers

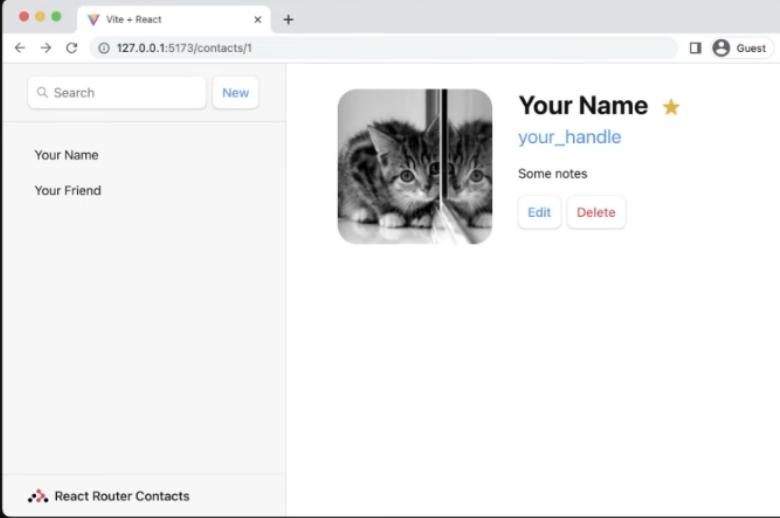
- Picking a Router
- createBrowserRouter
- createHashRouter
- createMemoryRouter
- createStaticHandler
- createStaticRouter
- RouterProvider
- StaticRouterProvider

Router Components

- BrowserRouter
- HashRouter
- MemoryRouter
- NativeRouter

## Nested Routes

We want the contact component to render *inside* of the `<Root>` layout like this.



The screenshot shows a browser window titled "Vite + React" with the URL "127.0.0.1:5173/contacts/1". The page displays a contact form. At the top, there's a search bar and a "New" button. Below it, there are input fields for "Your Name" and "Your Friend". To the right of these fields is a placeholder image of two kittens. Further down, there's a section titled "Your Name" with a star icon, containing the handle "your\_handle" and some notes. At the bottom of the form, there are "Edit" and "Delete" buttons. The overall layout demonstrates how a contact component is nested within the root layout.

We do it by making the contact route a *child* of the root route.

Move the contacts route to be a child of the root route

```
const router = createBrowserRouter([
  {
    path: "/",
    element: <Root />,
  },
  {
    path: "/contact",
    element: <Contact />
  }
])
```

On this page

- Setup
- Adding a Router
- The Root Route
- Handling Not Found Errors
- The Contact Route UI
- Nested Routes
- Client Side Routing
- Loading Data
- Data Writes + HTML Forms
- Creating Contacts
- URL Params in Loaders
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- Global Pending UI
- Deleting Records
- Contextual Errors
- Index Routes
- Cancel Button
- URL Search Params and GET Submissions
- GET Submissions with Client Side Routing
- Synchronizing URLs to Form State
- Submitting Forms onChange

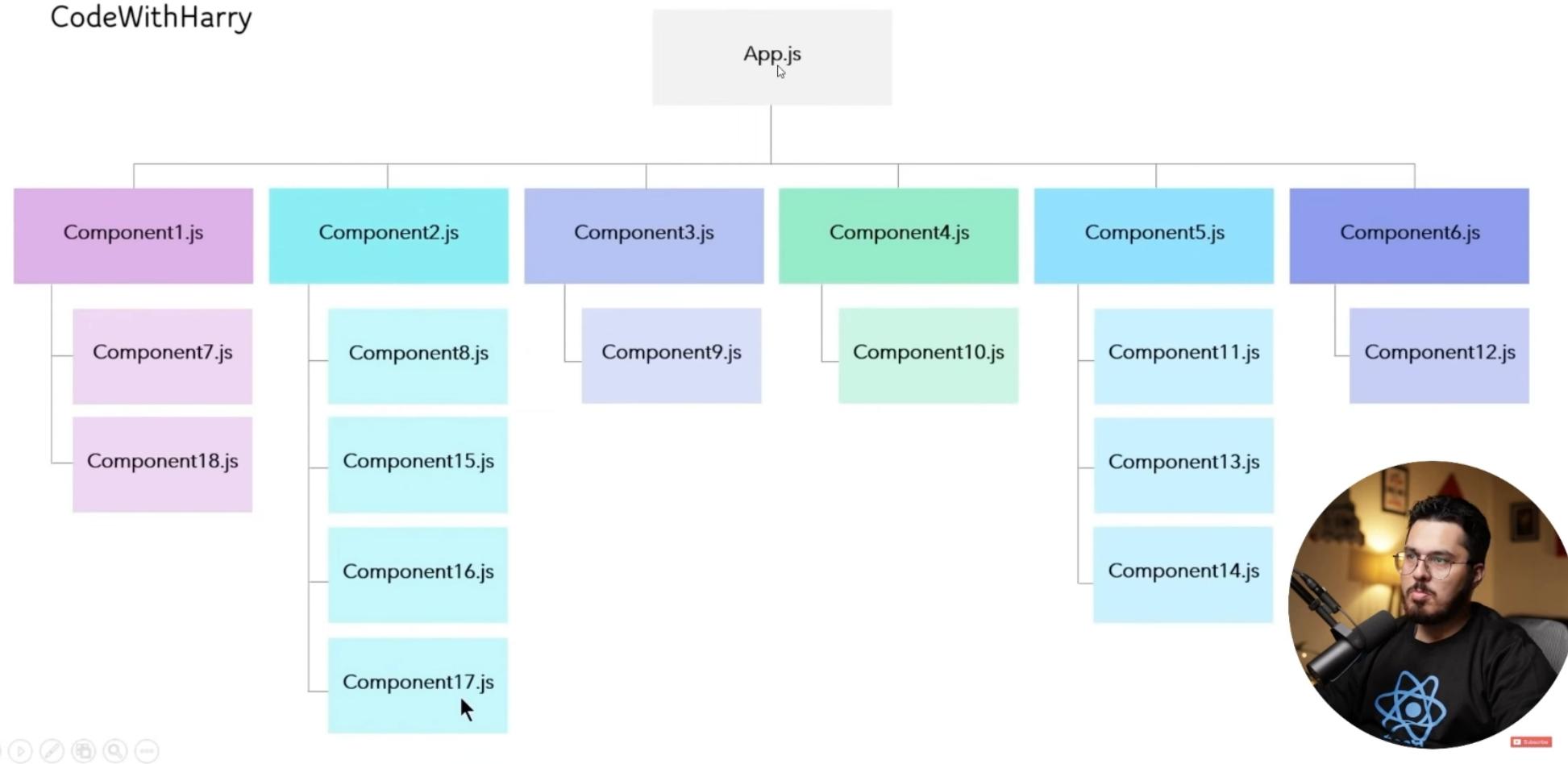


24°C Partly sunny ENG IN 17:40 Wed



# The Context API

CodeWithHarry



EXPLORER ... App.jsx Navbar.jsx Button.jsx our app.md Component1.jsx

VIDEO 1... node\_modules public src assets components Button.jsx Component1.jsx Navbar.jsx App.css App.jsx index.css main.jsx .eslintrc.cjs .gitignore Context API.png index.html our app.md package-lock.json package.json README.md vite.config.js

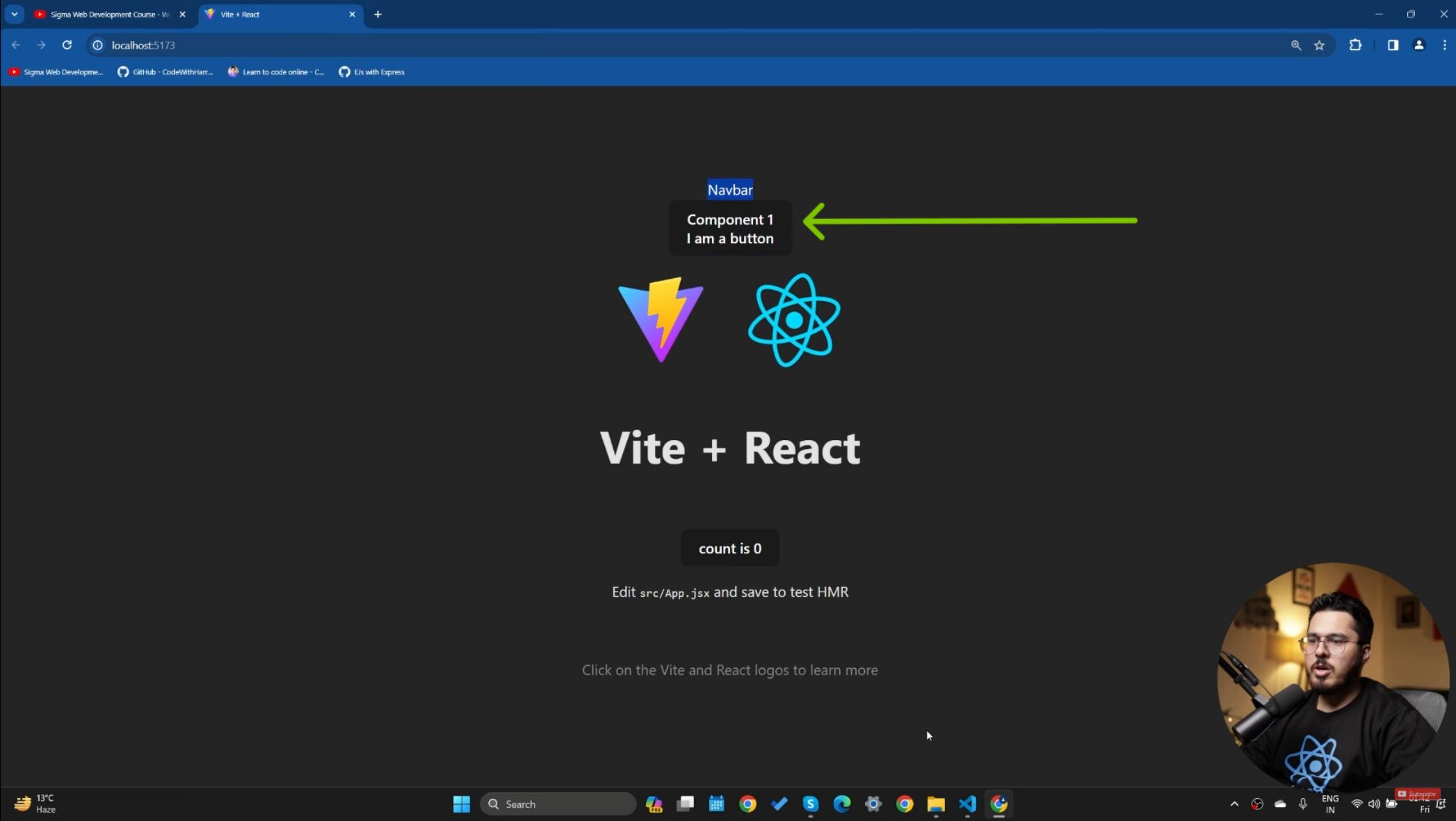
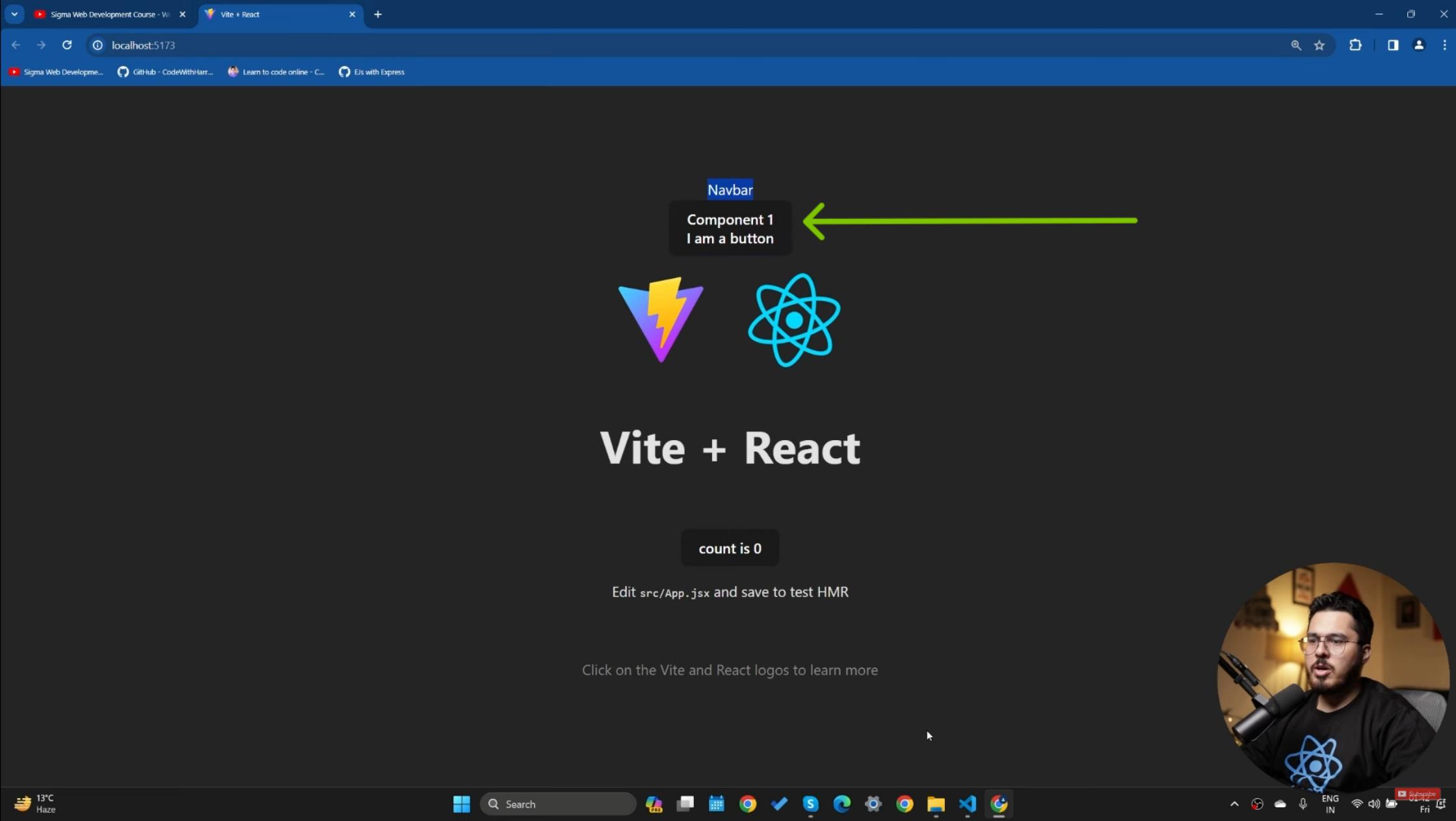
1 App.jsx  
2 Navbar.jsx  
3 Button.jsx  
4 Component1.jsx



Spaces: 4

13°C Haze





EXPLORER ...

VIDEO 116

- > node\_modules
- > public
- src
  - > assets
  - components
    - Button.jsx
    - Component1.jsx
    - Navbar.jsx
  - App.css
  - App.jsx
- index.css
- main.jsx
- .eslintrc.cjs
- .gitignore
- Context API.png
- index.html
- our app.md
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

1st

6

7 function App() {

8 const [count, setCount] = useState(0)

9

10 return (

11 <> I

12 <Navbar count={count}/> ←

13 <div>

14 <a href="https://vitejs.dev" target="\_blank">

15 <img src={viteLogo} className="logo" alt="Vite logo" />

16 </a>

17 <a href="https://react.dev" target="\_blank">

18 <img src={reactLogo} className="logo react" alt="React logo" />

19 </a>

20 </div>

Ln 12, Col 26 Spaces: 2 UTF-8 L. 13°C Haze

Search

13°C Haze

ENG IN

Fri



EXPLORER ...

VIDEO 116

- > node\_modules
- > public
- src
  - > assets
  - components
    - Button.jsx
    - Component1.jsx
  - Navbar.jsx
- App.css
- App.jsx
- index.css
- main.jsx
- .eslintrc.cjs
- .gitignore
- Context API.png
- index.html
- our app.md
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

App.jsx Navbar.jsx Button.jsx our app.md Component1.jsx

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2 import Button from './Button'
3
4 const Navbar = ({count}) => {
5   return (
6     <>
7       <div>
8         | Navbar
9       </div>
10      <Button count={count}/> ←
11      </>
12    )
13 }
14
15 export default Navbar
16
```



EXPLORER ...

VIDEO 116

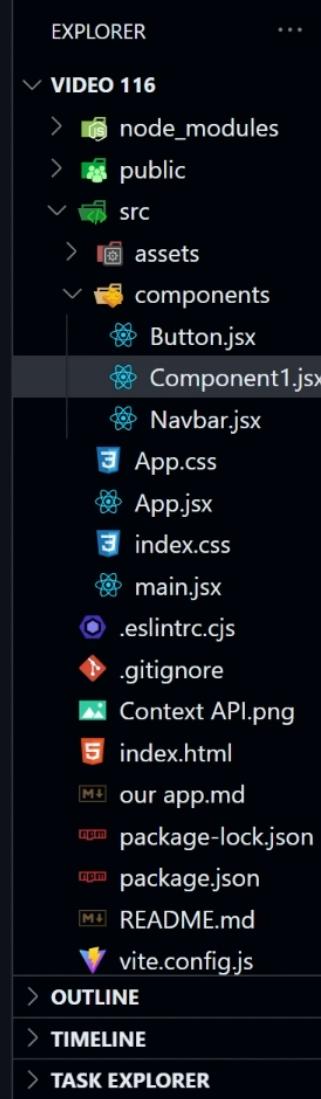
- > node\_modules
- > public
- < src
  - > assets
  - < components
    - Button.jsx
    - Component1.jsx
    - Navbar.jsx
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - Context API.png
  - index.html
  - our app.md
  - package-lock.json
  - package.json
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  - vite.config.js
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

App.jsx Navbar.jsx Button.jsx X our app.md Component1.jsx

src > components > Button.jsx > Button > count

```
1 import React from 'react'
2 import Component1 from './Component1'
3 const Button = ({count}) => {
4   return (
5     <div>
6       <button><span><Component1 count={count}>/</span>I am a
7         button</button>
8     </div>
9   )
10
11 export default Button
12
```





src > components > Component1.jsx > Component1

```
1 import React from 'react'
2
3 const Component1 = ({count}) => {
4   return (
5     <div>
6       | {count}
7     </div>
8   )
9 }
10
11 export default Component1
12
```



Navbar

6  
I am a button



# Vite + React

count is 6

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more



File Edit Selection View Go ... ← → Video 116

EXPLORER ... App.jsx Navbar.jsx JS context.js X Button.jsx Component1.jsx

src > context > JS context.js > [counterContext]

```
1 import { createContext } from "react";
2
3 export const counterContext = createContext(0)
```

VIDEO 116

- > node\_modules
- > public
- < src
  - > assets
  - < components
    - Button.jsx
    - Component1.jsx
    - Navbar.jsx
  - < context
    - JS context.js
    - App.css
    - App.jsx
    - index.css
    - main.jsx
    - .eslintrc.cjs
    - .gitignore
    - Context API.png
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    - package-lock.json
    - package.json

Ln 3, Col 47 Spaces: 4 UTF-8

2<sup>nd</sup>



13°C Haze

Search

Windows Start

Cloud

Chrome

VS Code

Atom

File Explorer

Taskbar

Language Bar

Bottom right corner icons: ENG IN, Fri, etc.

EXPLORER ...

VIDEO 116

- > node\_modules
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    - Button.jsx
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App.jsx X Navbar.jsx context.js Button.jsx Component1.jsx

```
src > App.jsx > App
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'
5 import Navbar from './components/Navbar'
6 import { counterContext } from './context/context' ← blue arrow
7
8 function App() {
9     const [count, setCount] = useState(0)
10
11     return (
12         <>
13             <counterContext.Provider> ← pink arrow
14                 <Navbar/>
15                 <div>
16                     <a href="https://vitejs.dev" target="_blank">
17                         <img src={viteLogo} className="logo" alt="Vite logo" />
18                     </a>
19                     <a href="https://react.dev" target="_blank">
20                         <img src={reactLogo} className="logo react" alt="React logo" />
21                     </a>
22                 </div>
23                 <h1>Vite + React</h1>
24                 <div className="card">
25                     <button onClick={() => setCount((count) => count + 1)}>
26                         count is {count}

```

Ln 34, Col 11 (677 selected) Spaces: 2 UTF-8 L ENG IN Fri

13°C Haze

Search

Windows Chrome Edge S Firefox



File Edit Selection View Go ... ⟲ ⟳ Video 116

EXPLORER ...

VIDEO 116

- > node\_modules
- > public
- src
  - > assets
  - components
    - Button.jsx
    - Component1.jsx
    - Navbar.jsx
  - context
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - Context API.png
  - index.html
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  - package.json
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- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

App.jsx X Navbar.jsx context.js Button.jsx Component1.jsx

```
src > App.jsx > App
18   </a>
19   <a href="https://react.dev" target="_blank">
20     <img src={reactLogo} className="logo react" alt="React logo" />
21   </a>
22   </div>
23   <h1>Vite + React</h1>
24   <div className="card">
25     <button onClick={() => setCount((count) => count + 1)}>
26       count is {count}
27     </button>
28     <p>
29       Edit <code>src/App.jsx</code> and save to test HMR
30     </p>
31   </div>
32   <p className="read-the-docs">
33     Click on the Vite and React logos to learn more
34   </p>
35   </counterContext.Provider> ←
36   </>
37   )
38 }
39
40 export default App
41 }
```

Ln 34, Col 11 (677 selected) Spaces: 2 UTF-8 L ENG IN Fri

13°C Haze

Search

Windows Chrome Edge S Firefox

A circular video overlay in the bottom right corner shows a man with glasses and a beard speaking into a microphone.



## EXPLORER

- VIDEO 116
  - > node\_modules
  - > public
  - src
    - > assets
    - components
      - Button.jsx
      - Component1.jsx
      - Navbar.jsx
    - context
      - JS context.js
      - App.css
    - App.jsx
    - index.css
    - main.jsx
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  - > OUTLINE
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  - > TASK EXPLORER

## App.jsx

## Navbar.jsx

## JS context.js

## Button.jsx

## Component1.jsx

```
src > App.jsx > App > count
1 import { useState } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'
5 import Navbar from './components/Navbar'
6 import { counterContext } from './context/context'

7
8 function App() {
9   const [count, setCount] = useState(0)

10
11   return (
12     <>
13       <counterContext.Provider value={count}> ←
14         <Navbar/>
15         <div>
16           <a href="https://vitejs.dev" target="_blank">
17             <img src={viteLogo} className="logo" alt="Vite logo" />
18           </a>
19           <a href="https://react.dev" target="_blank">
20             <img src={reactLogo} className="logo react" alt="React logo" />
21           </a>
22         </div>
23         <h1>Vite + React</h1>
24         <div className="card">
25           <button onClick={() => setCount((count) => count + 1)}>
26             count is {count}
```



File Edit Selection View Go ... ⟲ ⟳ Video 116

EXPLORER ...

VIDEO 116

- > node\_modules
- > public
- src
  - > assets
  - components
    - Button.jsx
    - Component1.jsx
    - Navbar.jsx
  - context
    - JS context.js
    - App.css
    - App.jsx
    - index.css
    - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - Context API.png
  - index.html
  - our app.md
  - package-lock.json
  - package.json

OUTLINE

TIMELINE

TASK EXPLORER

0 0 0 0

13°C Haze

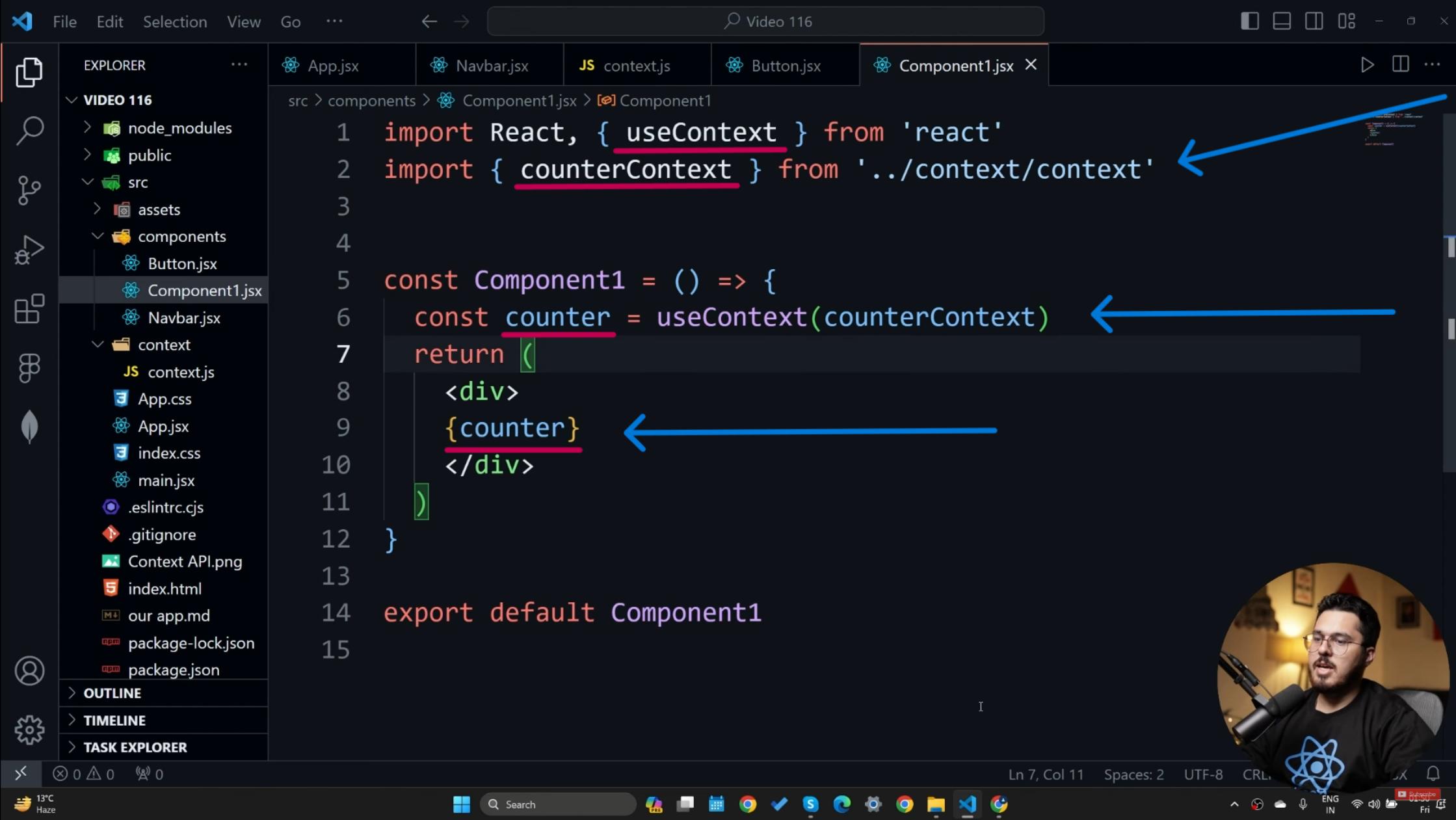
App.jsx Navbar.jsx context.js Button.jsx Component1.jsx

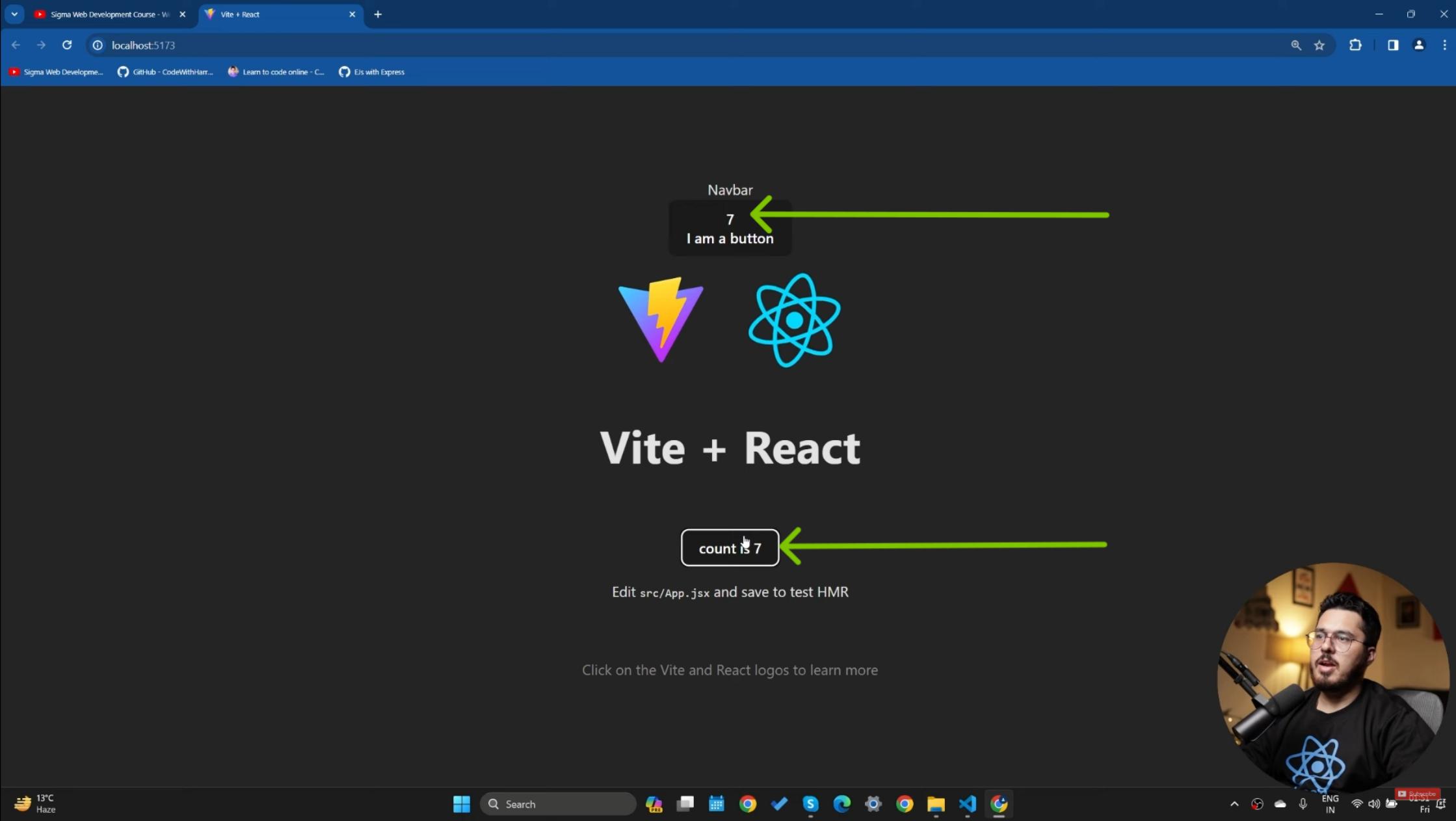
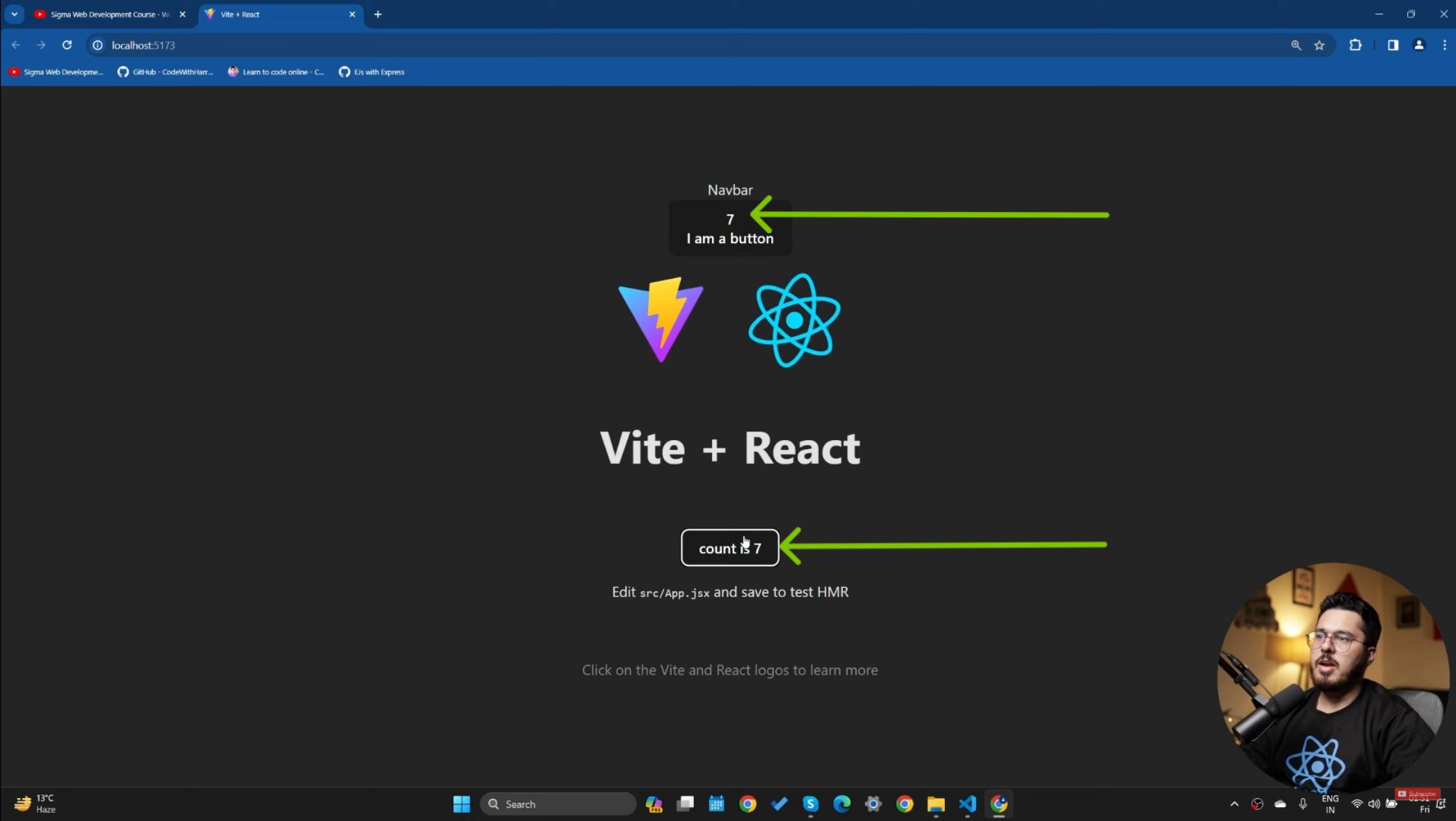
```
1 import React, { useContext } from 'react'
2 import { counterContext } from '../context/context'
3
4
5 const Component1 = () => {
6   const counter = useContext(counterContext)
7   return (
8     <div>
9       {counter}
10    </div>
11  )
12}
13
14 export default Component1
15
```

Ln 7, Col 11 Spaces: 2 UTF-8 CRL

Search

13°C Haze ENG IN Fri





EXPLORER

VIDEO 116

- > node\_modules
- > public
- src
  - > assets
  - components
    - Button.jsx
    - Component1.jsx
    - Navbar.jsx
  - context
    - JS context.js
    - App.css
  - App.jsx
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  - main.jsx
  - .eslintrc.cjs
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  - Context API.png
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  - npm package-lock.json
  - npm package.json

OUTLINE

TIMELINE

TASK EXPLORER

App.jsx × Navbar.jsx context.js Button.jsx Component1.jsx

src > App.jsx > App

```
5 import Navbar from './components/Navbar'
6 import { counterContext } from './context/context'
7
8 function App() {
9     const [count, setCount] = useState(0)
10
11    return (
12        <>
13        <counterContext.Provider value={{count, setCount}}>
14            <Navbar/>
15            <div>
16                <a href="https://vitejs.dev" target="_blank">
17                    <img src={viteLogo} className="logo" alt="Vite logo" />
18                </a>
19                <a href="https://react.dev" target="_blank">
20                    <img src={reactLogo} className="logo react" />
```

2.1 User-Case

Ln 13, Col 54 (17 selected) Spaces: 2 UTF-8 L ENG IN Fri





EXPLORER

...

App.jsx

Navbar.jsx

JS context.js

Button.jsx X

Component1.jsx

D ...



VIDEO 116

&gt; node\_modules

&gt; public

&gt; src

&gt; assets

&gt; components

Button.jsx

Component1.jsx

Navbar.jsx

&gt; context

JS context.js

App.css

App.jsx

index.css

main.jsx

.eslintrc.cjs

.gitignore

Context API.png

index.html

our app.md

package-lock.json

package.json

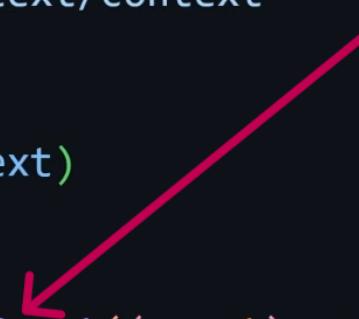
&gt; OUTLINE

&gt; TIMELINE

&gt; TASK EXPLORER

src &gt; components &gt; Buttonjsx &gt; ...

```
1 import React, {useContext} from 'react'
2 import Component1 from './Component1'
3 import { counterContext } from '../context/context'
4
5 const Button = () => {
6   const value = useContext(counterContext)
7   return (
8     <div>
9       <button onClick={() => value.setCount((count) => count +
10         1)}><span><Component1/></span>I am a button</button>
11   )
12 }
13
14 export default Button
15
```



Ln 1, Col 26

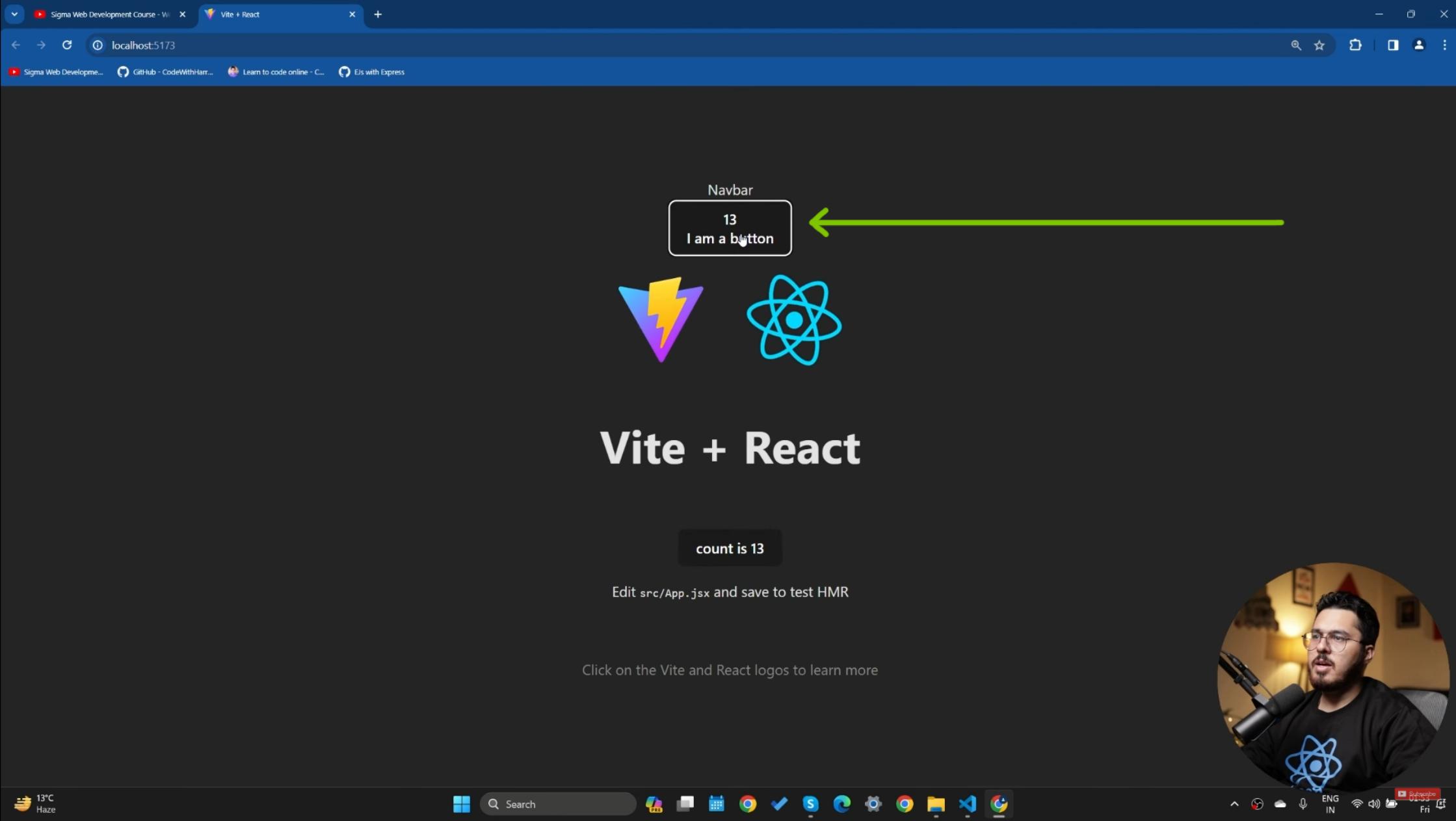
Spaces: 2

UTF-8 CRL



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Sigma Web Development Course - W... X Vite + React

localhost:5173

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Navbar

13

I am a button

Vite + React

count is 13

Edit src/App.jsx and save to test HMR

Click on the Vite and React logos to learn more

13°C Haze

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EXPLORER

... App.jsx X

VIDEO 117

- > node\_modules
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- < src
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  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js



```
src > App.jsx > App
4   import './App.css'
5
6
7   const nums = new Array(30_000_000).fill(0).map(_, i)=>{
8     return {
9       index: i,
10      isMagical: i==29_000_000
11    }
12  )
13
14
15  function App() {
16    const [count, setCount] = useState(0) ←
17    const [numbers, setNumbers] = useState(nums)
18
19    const magical = numbers.find(item=>item.isMagical==true) // Expensive Computation ←
20
21    return (
22      <>
23      <div>
24        <span>Magical number is {magical.index}</span>
25        <a href="https://vitejs.dev" target="_blank">
26          <img src={viteLogo} className="logo" alt="Vite logo" />
27        </a>
28        <a href="https://react.dev" target="_blank">
29          <img src={reactLogo} className="logo react" alt="React logo" />
```

as state changes & page  
renders again bcoz of



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Magical number is 29000000

# Vite + React

count is 26



Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more



12°C  
Clear

Search



^ ⌂ ⌄ ⌅ ⌆ ENG IN Sat

EXPLORER ...

VIDEO 117

- > node\_modules
- > public
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  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

App.jsx X

```
src > App.jsx > ...
1 import { useState, useMemo } from 'react'
2 import reactLogo from './assets/react.svg'
3 import viteLogo from '/vite.svg'
4 import './App.css'
5
6
7 const nums = new Array(30_000_000).fill(0).map((_, i) => {
8   return {
9     index: i,
10    isMagical: i === 29_000_000
11  }
12})
13
14
15 function App() {
16   const [count, setCount] = useState(0)
17   const [numbers, setNumbers] = useState(nums)
18
19 // const magical = numbers.find(item=>item.isMagical==true) // Expensive Computation
20 const magical = useMemo(() => numbers.find(item=>item.isMagical==true), [])
21
22 return (
23   <>
24     <div>
25       <span>Magical number is {magical.index}</span>
26       <a href="https://vitejs.dev" target="_blank">
27         <img src={viteLogo} className="logo" alt="Vite logo" />
28       </a>
29       <a href="https://react.dev" target="_blank">
30         <img src={reactLogo} className="logo react" alt="React logo" />
31       </a>
32     </div>
33     <h1>Vite + React</h1>
34     <div className="card">
35       <button onClick={() => setCount((count) => count + 1)}>
```

now b/w re-renders this computation won't repeat (memoised)



EXPLORER

VIDEO 117

- > node\_modules
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  - App.jsx
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  - package.json
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App.jsx

```
src > App.jsx > App > <function> > map() callback > isMagical
```

```
11   }
12 }
13
14
15 function App() {
16   const [count, setCount] = useState(0)
17   const [numbers, setNumbers] = useState(nums)
18
19   // const magical = numbers.find(item=>item.isMagical==true) // Expensive Computation
20   const magical = useMemo(() => numbers.find(item=>item.isMagical==true), [numbers])
21
22   return (
23     <>
24       <div>
25         <span>Magical number is {magical.index}</span>
26         <a href="https://vitejs.dev" target="_blank">
27           <img src={viteLogo} className="logo" alt="Vite logo" />
28         </a>
29         <a href="https://react.dev" target="_blank">
30           <img src={reactLogo} className="logo react" alt="React logo" />
31         </a>
32       </div>
33       <h1>Vite + React</h1>
34       <div className="card">
35         <button onClick={() => {
36           setCount((count) => count + 1);
37           if(count == 10){
38             setNumbers(new Array(10_000_000).fill(0).map(_, i)=>{
39               return [
40                 index: i,
41                 isMagical: i==9_000_000
42               ]
43             })
44           }
45         }}
46       </div>
47     </>
48   )
49 }
```

dependency array:  
Re-calc magical  
when [numbers] changed

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Ln 41, Col 32 Spaces: 2 UTF-8 LF {} JavaScript JSX

Subscribed Sat



Magical number is 9000000

# Vite + React

count is 11



Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more





EXPLORER

App.jsx × Navbar.jsx index.css main.jsx

...

VIDEO 118

- > node\_modules
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    - App.css
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- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



```
src > App.jsx > App
6
7   function App() {
8     const [count, setCount] = useState(0)
9     const [adjective, setAdjective] = useState("good") ←
10
11    const getAdjective = ()=>{ ←
12      return "another"
13    }
14
15
16    <>
17    <Navbar adjective={"good"} getAdjective={getAdjective} />
18    <div>
19      <a href="https://vitejs.dev" target="_blank">
20        <img src={viteLogo} className="logo" alt="Vite logo" />
21      </a>
22      <a href="https://react.dev" target="_blank">
23        <img src={reactLogo} className="logo react" alt="React logo" />
24      </a>
25    </div>
26    <h1>Vite + React</h1>
27    <div className="card">
28      <button onClick={() => setCount((count) => count + 1)}>
29        count is {count}
30      </button>
31      <p>
32        Edit <a href="src/App.jsx">src/App.jsx</a> and save to test HMR
```

Ln 17, Col 58 Spaces: 2 UTF-8 LF {} JavaScript JSX



12°C

Clear



Search





EXPLORER ...

VIDEO 118

- > node\_modules
- > public
- < src
  - > assets
  - < components
    - Navbar.jsx
    - App.css
    - App.jsx
    - index.css
    - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

App.jsx Navbar.jsx X index.css main.jsx

src > components > Navbar.jsx > Navbar

```
1 import React from 'react'
2
3 const Navbar = ({adjective}) => {
4     console.log("Navbar is rendered")
5     return (
6         <div>
7             I am a {adjective} Navbar
8         </div>
9     )
10 }
11
12 export default Navbar
```

Ln 4, Col 36 Spaces: 4 UTF-8 CRLF {} JavaScript JSX

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I am a good Navbar

Vite React

count is 7

Edit src/App.jsx and save to test HMR

Click on the Vite and React logos to learn more

12°C Clear

Search

Console

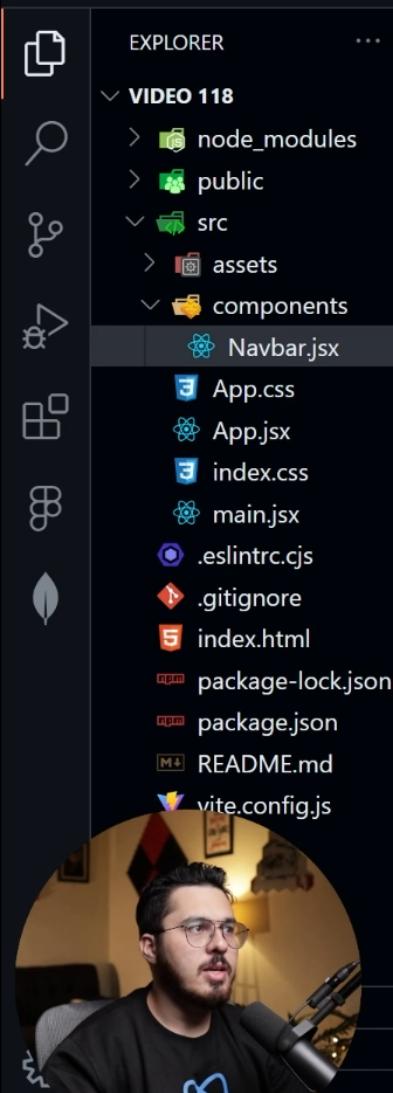
react-dom\_client.js?v=2c7cd9d2:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Navbar is rendered Navbar.jsx:4

7 Navbar is rendered Navbar.jsx:4

No Issues

ENG IN Sat



App.jsx Navbar.jsx X index.css main.jsx

src > components > Navbar.jsx > default

```
1 import React from 'react'
2 import { memo } from 'react'
3
4 const Navbar = ({adjective}) => {
5   console.log("Navbar is rendered")
6   return (
7     <div>
8       I am a {adjective} Navbar
9     </div>
10  )
11 }
12
13 export default memo(Navbar)
14
```

EXPLORER ...

VIDEO 118

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  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js



App.jsx x Navbar.jsx index.css main.jsx

```
src > App.jsx > App
6
7   function App() {
8     const [count, setCount] = useState(0)
9     const [adjective, setAdjective] = useState("good")
10
11    const getAdjective = ()=>{
12      return "another"
13    }
14
15    return (
16      <>
17        <Navbar adjective={"good"} />
18        <div>
19          <a href="https://vitejs.dev" target="_blank">
20            <img src={viteLogo} className="logo" alt="Vite logo" />
21          </a>
22          <a href="https://react.dev" target="_blank">
23            <img src={reactLogo} className="logo react" alt="React logo" />
24          </a>
25        </div>
26        <h1>Vite + React</h1>
27        <div className="card">
28          <button onClick={() => setCount((count) => count + 1)}>
29            count is {count}
30          </button>
31          <p>
32            Edit <a href="https://github.com/vitejs/vite/edit/main/examples/react-hmr/src/App.jsx" target="_blank">src/App.jsx</a> and save to test HMR

```

Ln 17, Col 32 Spaces: 2 UTF-8 LF {} JavaScript JSX

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Sigma Web Development Course - W Vite + React

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Elements Console > Filter Default levels ▾ No Issues

react-dom\_client.js?v=2c7cd9d2:21534 Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Navbar is rendered Navbar.jsx:5

because of memo

I am a good Navbar

Vite React

count is 7

Edit src/App.jsx and save to test HMR

Click on the Vite and React logos to learn more

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Search

Windows Start

Cloud

Chrome

File

Folder

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Google Slides

Google Docs

Google Sheets

Google Slides

Google Docs

ENG IN Sat 03:07

EXPLORER ...

VIDEO 118

- > node\_modules
- > public
- ✓ src
  - > assets
  - ✓ components
    - Navbar.jsx
    - App.css
    - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

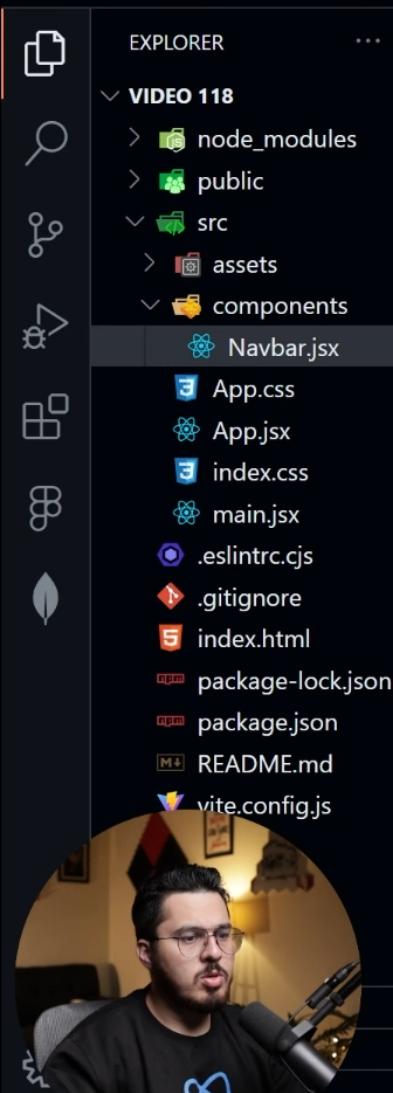


App.jsx X Navbar.jsx index.css main.jsx

```
src > App.jsx > App
  5 import Navbar from './components/Navbar'
  6
  7 function App() {
  8   const [count, setCount] = useState(0)
  9   const [adjective, setAdjective] = useState("good")
 10
 11   const getAdjective = ()=>{
 12     return "another"
 13   }
 14
 15   return (
 16     <>
 17       <Navbar adjective={"good"} getAdjective={getAdjective} />
 18       <div>
 19         <a href="https://vitejs.dev" target="_blank">
 20           <img src={viteLogo} className="logo" alt="Vite logo" />
 21         </a>
 22         <a href="https://react.dev" target="_blank">
 23           <img src={reactLogo} className="logo react" alt="React logo" />
 24         </a>
 25       </div>
 26       <h1>Vite + React</h1>
 27       <div className="card">
 28         <button onClick={() => setCount((count) => count + 1)}>
 29           count is {count}
 30         </button>
 31       <p>
 32         Edit <code>src/App.jsx</code> and save to test HMR

```

Added again



App.jsx   Navbar.jsx X   index.css   main.jsx

```
src > components > Navbar.jsx > Navbar
1 import React from 'react'
2 import { memo } from 'react'
3
4 const Navbar = ({adjective, getAdjective}) => {
5   console.log("Navbar is rendered")
6   return (
7     <div>
8       I am a {adjective} Navbar
9       <button onClick={()=>{getAdjective()}}>Change me</button>
10    </div>
11  )
12}
13
14 export default memo(Navbar) ← Remember memo is still here. *
```

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Elements Console > Filter Default levels ▾ No Issues

react-dom\_client.js?v=2c7cd9d2:21534 Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Navbar is rendered Navbar.jsx:5

6 Navbar is rendered Navbar.jsx:5

>

↑ ⚡

I am a good Navbar Change me

Vite + React

count is 6

Edit src/App.jsx and save to test HMR

Click on the Vite and React logos to learn more

rendering even when the getadjective ()=> is not changing

12°C Clear

Search

ENG IN Sat

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I am a good Navbar Change me

Vite + React

count is 6

Edit index.jsx and save to test HMR

Follow me on Twitter and go to learn more

12°C Clear

Elements Console Sources Network Performance Security Memory Application Lighthouse Recorder ➡️ Default levels ▾ No Issues 2 hidden

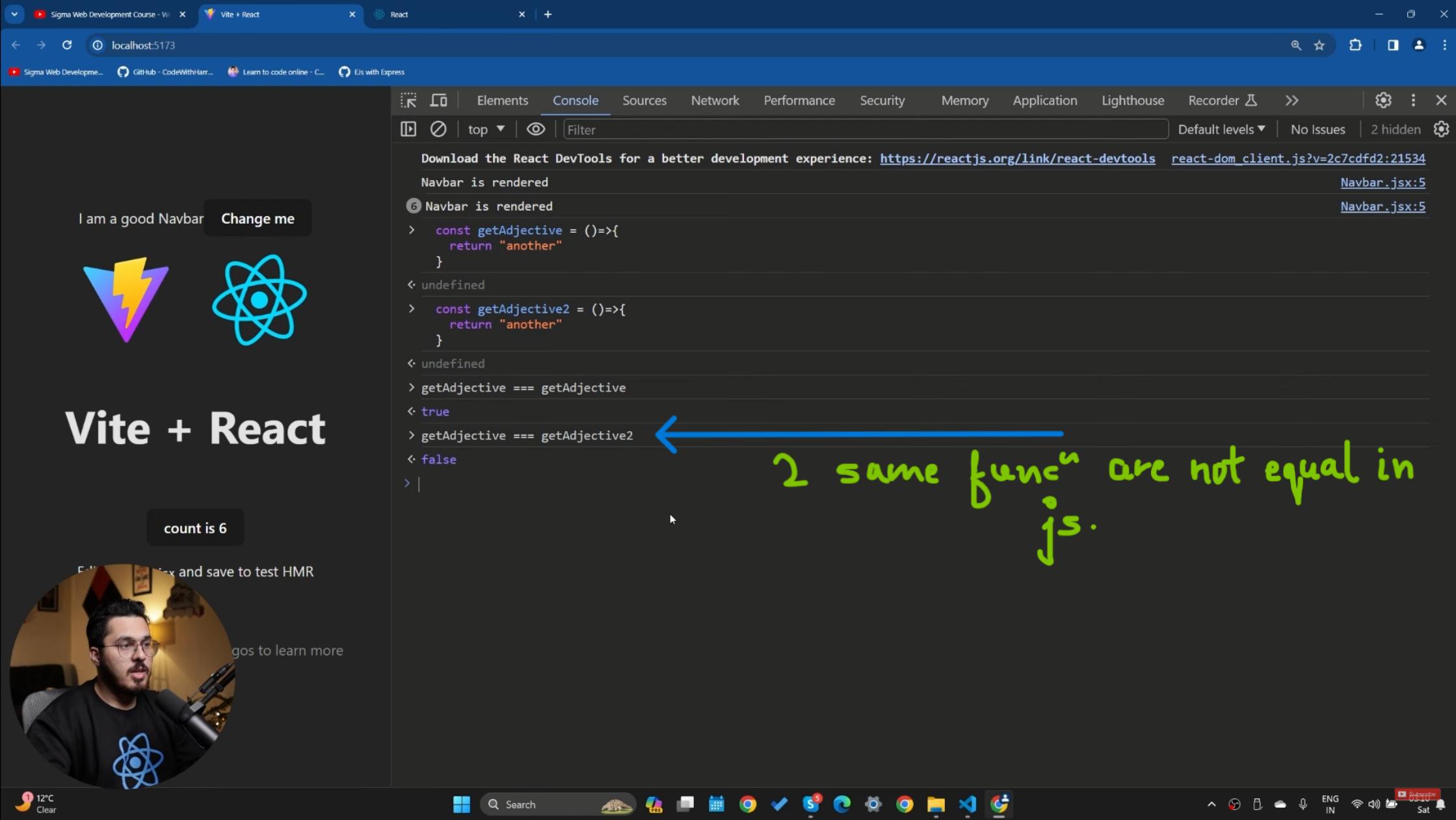
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools> react-dom\_client.js?v=2c7cd9d2:21534

Navbar is rendered

6 Navbar is rendered

> const getAdjective = ()=>{  
 return "another"  
}  
< undefined  
> const getAdjective2 = ()=>{  
 return "another"  
}  
< undefined  
> getAdjective === getAdjective  
< true  
> getAdjective === getAdjective2  
< false  
> |

2 same func<sup>n</sup> are not equal in js.





EXPLORER

...

## VIDEO 118

&gt; node\_modules

&gt; public

&gt; src

&gt; assets

&gt; components

Navbar.jsx

App.css

App.jsx

index.css

main.jsx

.eslintrc.cjs

.gitignore

index.html

package-lock.json

package.json

README.md

vite.config.js



App.jsx X Navbar.jsx index.css main.jsx

src &gt; App.jsx &gt; App &gt; getAdjective

```
5 import Navbar from './components/Navbar'  
6  
7 function App() {  
8   const [count, setCount] = useState(0)  
9   const [adjective, setAdjective] = useState("good")  
10  
11  // const getAdjective = () => {  
12  //   return "another" + count  
13  // }  
14  
15  const getAdjective = useCallback(() => {  
16    return "another" + count  
17  }, [])  
18  
19  
20  
21  return (  
22    <>  
23      <Navbar adjective={"good"} getAdjective={getAdjective} />  
24      <div>  
25        <a href="https://vitejs.dev" target="_blank">  
26          <img src={viteLogo} className="logo" alt="Vite logo" />  
27        </a>  
28        <a href="https://react.dev" target=" blank">
```

freeze | memoise the func.

Ln 17, Col 9 Spaces: 2 UTF-8 LF {} JavaScript JSX

Sigma Web Development Course - W... Vite + React React localhost:5173

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I am a good Navbar another0

Vite React

count is 4

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

12°C Clear

Elements Console

top 2 hidden

Filter Default levels

No Issues

react-dom\_client.js?v=2c7cd9d2:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Navbar is rendered Navbar.jsx:5

Stopped re-rendering



EXPLORER

...

VIDEO 118

&gt; node\_modules

&gt; public

&gt; src

&gt; assets

&gt; components

Navbar.jsx

App.css

App.jsx

index.css

main.jsx

.eslintrc.cjs

.gitignore

index.html

package-lock.json

package.json

README.md

vite.config.js



App.jsx X Navbar.jsx index.css main.jsx

src &gt; App.jsx &gt; App &gt; getAdjective

```
5 import Navbar from './components/Navbar'  
6  
7 function App() {  
8   const [count, setCount] = useState(0)  
9   const [count2, setCount2] = useState(0)  
10  const [adjective, setAdjective] = useState("good")  
11  
12 // const getAdjective = () => {  
13 //   return "another" + count  
14 // }  
15  
16  const getAdjective = useCallback(() => {  
17    return "another" + count  
18  }, [count]) → unfreeze when count changed  
19  
20  
21  
22  return (  
23    <>  
24      <Navbar adjective={"good"} getAdjective={getAdjective} />  
25      <div>  
26        <a href="https://vitejs.dev" target="_blank">  
27          <img src={viteLogo} className="logo" alt="Vite logo" />  
28        </a>
```

Ln 18, Col 14 Spaces: 2 UTF-8 LF {} JavaScript JSX



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Clear



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^ ⌂ ⌂ ⌂ ENG IN ⓘ Sat 03:15

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localhost:5173

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I am a good Navbar another25

Vite React

count is 25

Edit `src/App.jsx` and save to test HMR

Click on the Vite and React logos to learn more

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Console 4 6 hidden Default levels No Issues

react-dom\_client.js?v=2c7cdffd2:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Navbar is rendered Navbar.jsx:5

▶ GET http://localhost:5173/src/App.jsx?t=1708119883056 net::ERR\_ABORTED 500 (Internal Server Error)

▶ [hmr] Failed to reload hmr.ts:249 /src/App.jsx. This could be due to syntax errors or importing non-existent modules. (see errors above)

▶ GET http://localhost:5173/src/App.jsx?t=1708119885051 net::ERR\_ABORTED 500 (Internal Server Error)

▶ [hmr] Failed to reload hmr.ts:249 /src/App.jsx. This could be due to syntax errors or importing non-existent modules. (see errors above)

Navbar is rendered Navbar.jsx:5

Navbar is rendered Navbar.jsx:5

25 Navbar is rendered Navbar.jsx:5

12°C Clear

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React DevTools

Chrome

VS Code

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React Hook Form - performant, flexible... X

react-hook-form.com

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38,810

# React Hook Form

Performant, flexible and extensible forms with easy-to-use validation.

Demo Get Started ►

App.jsx — my-react-app

```
src > App.jsx > App
import { useForm } from "react-hook-form";

let counter = 0;

function App() {
  const onSubmit = (d) =>
    alert(JSON.stringify(d));

  return (
    <form onSubmit={onSubmit}>
      <label>
        First Name:
        <input name="firstName" />
      </label>
      <label>
        Last Name:
        <input name="lastName" />
      </label>

      <p>Render: <span>{counter++}</span></p>
      <input type="submit" value="submit" />
    </form>
  );
}
```

0:00 / 0:30

First Name:

Last Name:

Render: 1

SUBMIT

26°C Haze

ENG IN

16:15

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EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

powershell X App.jsx

VITE v5.1.3 ready in 213 ms

→ Local: http://localhost:5173/  
→ Network: use --host to expose  
→ press h + enter to show help

Terminate batch job (Y/N)?  
^C

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> npm install react-hook-form

added 1 package, and audited 275 packages in 1s

99 packages are looking for funding  
run `npm fund` for details

found 0 vulnerabilities

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119>



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react-hook-form.com/get-started

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Installing React Hook Form only takes a single command and you're ready to roll.

npm install react-hook-form

Example

The following code excerpt demonstrates a basic usage example:

TS

```
import { useForm } from "react-hook-form"

export default function App() {
  const {
    register,
    handleSubmit,
    watch,
    formState: { errors },
  } = useForm()

  const onSubmit = (data) => console.log(data)

  console.log(watch("example")) // watch input value by passing the name of it

  return (
    /* "handleSubmit" will validate your inputs before invoking "onSubmit" */
    <form onSubmit={handleSubmit(onSubmit)}>
      {/* register your input into the hook by invoking the "register" function */}
      <input defaultValue="test" {...register("example")} />

      {/* include validation with required or other standard HTML validation rules */}
      <input {...register("exampleRequired", { required: true })} />
      {/* errors will return when field validation fails */}
      {errors.exampleRequired && <span>This field is required</span>}

      <input type="submit" />
    </form>
  )
}
```

JS

COPY CODESANDBOX JS

React Web Video Tutorial

This video tutorial illustrates the basic usage and concepts of React Hook Form.

React Hook Form - Get Started

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EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

```
src > App.jsx > App > onSubmit
1 import { useState } from 'react'
2 import './App.css'
3 import { useForm } from "react-hook-form"
4
5
6
7 function App() {
8   const {
9     register,
10    handleSubmit,
11    watch,
12    formState: { errors },
13  } = useForm();
14
15  const onSubmit = (data) => console.log(data) ←
16
17  return (
18    <>
19      <div className="container">
20        <form action="" onSubmit={handleSubmit(onSubmit)}>
21          <input type="text" name="username" id="" />
22          <input type="password" name="password" id="" />
23          <input type="submit" value="Submit" />
24        </form>
25      </div>
26    </>
27  )
28 }
```



Ln 15, Col 47 Spaces: 2 UTF-8 L RSSI

EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

```
function App() {
  const [
    register,
    handleSubmit,
    watch,
    formState: { errors },
  ] = useForm();

  const onSubmit = (data) => console.log(data)

  return (
    <>
      <div className="container">
        <form action="" onSubmit={handleSubmit(onSubmit)}>
          <input placeholder='username' {...register("username")} type="text" />
          <br />
          <input placeholder='password' {...register("password")} type="password"/>
          <br />
          <input type="submit" value="Submit" />
        </form>
      </div>
    </>
  )
}

export default App
```



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Console > 1 | 3 hidden | Filter Default levels ▾ | 1 Issue: 1

react-dom\_client.js?v=c8a59dce:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

App.jsx:15  
▶ {username: 'harry', password: 'harry123'}

Submit

harry

.....

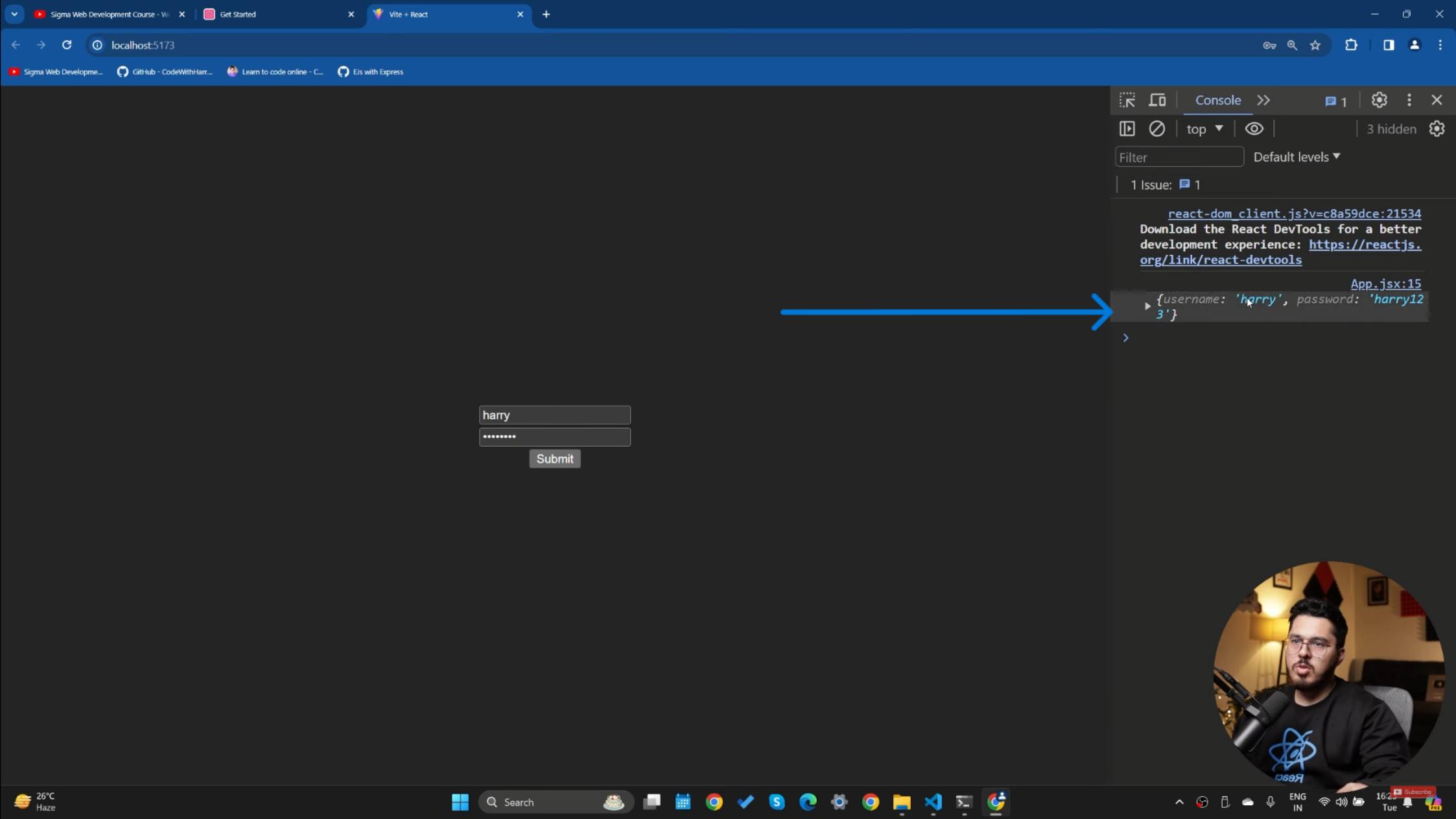
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16:25 Subscr...

100% 100%



EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

```
function App() {
  const [
    register,
    handleSubmit,
    watch,
    formState: { errors },
  ] = useForm();

  const onSubmit = (data) => console.log(data)

  return (
    <>
      <div className="container">
        <form action="" onSubmit={handleSubmit(onSubmit)}>
          <input placeholder='username' {...register("username", { required: true, minLength: 3, maxLength: 8 })} type="text" />
          {errors.username && <div className='red'>There is some error in username</div>}
          <br />
          <input placeholder='password' {...register("password")}> type="password"/>
          <br />
          <input type="submit" value="Submit" />
        </form>
      </div>
    </>
  )
}

export default App
```

Ln 22, Col 50 Spaces: 2 UTF-8



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harrykjdsflkds

There is some error in username

password

Submit

←



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EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

```
function App() {
  const [
    register,
    handleSubmit,
    watch,
    formState: { errors },
  ] = useForm();

  const onSubmit = (data) => console.log(data)

  return (
    <>
      <div className="container">
        <form action="" onSubmit={handleSubmit(onSubmit)}>
          <input placeholder='username' {...register("username", { required: {value: true, message: "This field is required"}, minLength: {value: 3, message: "Min length is 3"}, maxLength: {value: 8, message: "Max length is 8"} })} type="text" />
          {errors.username && <div className='red'>{errors.username.message}</div>}
          <br />
          <input placeholder='password' {...register("password")}> type="password"/>
          <br />
          <input type="submit" value="Submit" />
        </form>
      </div>
    </>
  )
}
```



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react-dom\_client.js?v=c8a59dce:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

1234444444

Max length is 8

password

Submit

A yellow arrow points from the error message "Max length is 8" to the character "4" in the input field.



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Search

ENG IN

16:48 Subscrib...

EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- < src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

```
src > App.jsx > App
10   | handleSubmit,
11   | watch,
12   | formState: { errors, isSubmitting },
13   | } = useForm();
14
15 const delay = (d)=>{
16   return new Promise((resolve, reject)=>{
17     setTimeout(() => {
18       resolve()
19     }, d * 1000);
20   })
21 }
22
23 const onSubmit = async (data) => {
24   await delay(2) // simulating network delay
25   console.log(data)
26 }
27
28 return (
29   <>
30     <div className="container">
31       <form action="" onSubmit={handleSubmit(onSubmit)}>
32         <input placeholder='username' {...register("username", { required: {value: true, message: "This field is required"}, minLength: {value: 3, message: "Min length is 3"}, maxLength: {value: 8, message: "Max length is 8"} })} type="text" />
33         {errors.username && <div className='red'>{errors.username.message}</div>}
34         <br />
35         <input placeholder='password' {...register("password")}> type="password"/>
```



EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

src > App.jsx > App > minLength > message

```
22
23     const onSubmit = async (data) => {
24         await delay(2) // simulating network delay
25         console.log(data)
26     }
27
28     return (
29         <>
30         {isSubmitting && <div>Loading...</div>}
31         <div className="container">
32             <form action="" onSubmit={handleSubmit(onSubmit)}>
33                 <input placeholder='username' {...register("username", { required: {value: true, message: "This field is required"}, minLength: {value: 3, message: "Min length is 3"}, maxLength: {value: 8, message: "Max length is 8"} })} type="text" />
34                 {errors.username && <div className='red'>{errors.username.message}</div>}
35                 <br />
36                 <input placeholder='password' {...register("password", {minLength: {value: 7, message: "Min length of password is 7"} })} type="password"/>
37                 {errors.password && <div className='red'>{errors.password.message}</div>}
38                 <br />
39                 <input disabled={isSubmitting} type="submit" value="Submit" />
40             </form>
41         </div>
42     </>
43 )
44 }
45
46 export default App
```

Ln 36, Col 123 Spaces: 2 UTF-8 L 26°C Mostly sunny



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localhost:5173

Console > 1 | 3 hidden | Filter Default levels ▾ | 1 Issue: 1

react-dom\_client.js?v=c8a59dce:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Loading... ←

harry →

..... Submit

26°C 26°C Mostly sunny ENG IN 16:52 Tue

The image shows a screenshot of a web browser window. At the top, there are several tabs: 'Sigma Web Development Course - W' (active), 'Get Started', 'Vite + React', 'Sigma Web Developme...', 'GitHub - CodeWithHarr...', 'Learn to code online - C...', and 'Ejs with Express'. The main content area shows a login form with a text input containing 'harry' and a password input showing '.....'. A green arrow points from the word 'Loading...' above the form to the right side of the browser. A pink arrow points from the left side of the browser towards the form. To the right of the browser is a circular video feed of a man with glasses and a black t-shirt, sitting in front of a microphone. The bottom of the screen shows a taskbar with various icons and system status information.

Sigma Web Development Course - W | Get Started | Vite + React | +

localhost:5173

Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Ejs with Express

Console > 1 | 3 hidden | Filter Default levels ▾ | 1 Issue: 1

react-dom\_client.js?v=c8a59dce:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

App.jsx:25  
▶ {username: 'harry', password: 'harry123'}

>

harry  
.....  
Submit



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Search

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EXPLORER ...

VIDEO 119

- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

OUTLINE

TIMELINE

TASK EXPLORER

node App.jsx X

```
src > App.jsx > App > onSubmit
13 } = useForm();
14
15 const delay = (d)=>{
16   return new Promise((resolve, reject)=>{
17     setTimeout(() => {
18       resolve()
19     }, d * 1000);
20   })
21 }

23 const onSubmit = async (data) => [
24   await delay(2) // simulating network delay
25   console.log(data)
26   if(data.username !== "shubham"){
27     setError("myform", {message: "Your form is not in good order because credentials are invalid"})
28   }
29   if(data.username === "rohan"){
30     setError("blocked", {message: "Sorry this user is blocked"})
31   }
32 ]

34 return (
35   <>
36   {isSubmitting && <div>Loading...</div>}
37   <div className="container">
38     <form action="" onSubmit={handleSubmit(onSubmit)}>
39       <input placeholder='username' {...register("username", { required: {value: true, message: "This field is required"}, minLength: {value: 3, message: "Min length is 3"}, maxLength: {value: 10, message: "Max length is 10"} })}>
```



EXPLORER ...

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- > node\_modules
- > public
- src
  - > assets
  - App.css
  - App.jsx
  - index.css
  - main.jsx
- .eslintrc.cjs
- .gitignore
- index.html
- package-lock.json
- package.json
- README.md
- vite.config.js

node App.jsx X

```
35   <>
36   {isSubmitting && <div>Loading...</div>}
37   <div className="container">
38     <form action="" onSubmit={handleSubmit(onSubmit)}>
39       <input placeholder='username' {...register("username", { required: {value: true, message: "This field is required"}, minLength: {value: 3, message: "Min length is 3"}, maxLength: {value: 8, message: "Max length is 8"} })} type="text" />
40       {errors.username && <div className='red'>{errors.username.message}</div>}
41       <br />
42       <input placeholder='password' {...register("password", {minLength: {value: 7, message: "Min length of password is 7"},})} type="password"/>
43       {errors.password && <div className='red'>{errors.password.message}</div>}
44       <br />
45       <input disabled={isSubmitting} type="submit" value="Submit" />
46       {errors.myform && <div className='red'>{errors.myform.message}</div>}
47       {errors.blocked && <div className='red'>{errors.blocked.message}</div>}
48     </form>
49   </div>
50   </>
51 }
52 }
53
54 export default App
55
```



Sigma Web Development Course - W | Get Started | Vite + React | localhost:5173

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Console > 1 | 3 hidden | Filter Default levels ▾ | 1 Issue: 1

react-dom\_client.js?v=c8a59dce:21534  
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App.jsx:25  
▶ {username: 'rohan', password: 'rohandfsdfsfdsfdf'}

rohan  
.....  
Submit

Your form is not in good order because credentials are invalid  
Sorry this user is blocked

←



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EXPLORER ... node App.jsx node node X X D + ⌂ ...

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backend

JS server.js ←

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App.jsx

index.css

main.jsx

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at ModuleJob.\_instantiate (node:internal/modules/esm/module\_job:132:21)  
at async ModuleJob.run (node:internal/modules/esm/module\_job:214:5)  
at async ModuleLoader.import (node:internal/modules/esm/loader:329:24)  
at async loadESM (node:internal/process/esm\_loader:34:7)  
at async handleMainPromise (node:internal/modules/run\_main:113:12)  
○  
Node.js v20.10.0  
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> node .\backend\server.js  
Example app listening on port 3000  
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C  
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C  
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> node .\backend\server.js  
Example app listening on port 3000

JS server.js x

backend > JS server.js > [o] app

```
1 import express from "express"
2 const app = express()
3 const port = 3000
4
5 app.get('/', (req, res) => {
6
7   res.send('Hello World!')
8 }
9
10 app.post('/', (req, res) => {
11   console.log(req.form)
12   res.send('Hello World!')
13 })
14
15 app.listen(port, () => {
16   console.log(`Example app listening on
port ${port}`)
17 })
```



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EXPLORER ... node node App.jsx X

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```
src > App.jsx > App > [onSubmit]
13 } = useForm();
14
15 const delay = (d)=>{
16   return new Promise((resolve, reject)=>{
17     setTimeout(() => {
18       resolve()
19     }, d * 1000);
20   })
21 }
22
23 const onSubmit = async (data) => [
24   // await delay(2) // simulating network delay
25   let r = await fetch("http://localhost:3000/")
26   let res = await r.text()
27   console.log(data, res)
28   // if(data.username !== "shubham"){
29   //   setError("myForm", {message: "Your form is not in good order because credentials are invalid"})
29   // }
29   // if(data.username === "rohan"){
30   //   setError("blocked", {message: "Sorry this user is blocked"})
31   // }
32 ]
33
34
35
36 return (
37   <>
38   {isSubmitting && <div>Loading...</div>}
39   <div className="container">
```



Sigma Web Development Course - W | Get Started | Vite + React | Express "Hello World" example

localhost:5173

Elements Console Sources Network Performance

Default levels ▾ 2 Issues: 1 1 14 hidden

react-dom\_client.js?v=c8a59dce:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

▶ {username: 'harry', password: 'harryharryharry'} App.jsx?t=1708428585691:38

✖ Access to fetch at '<http://localhost:3000/>' from origin '<http://localhost:5173>' localhost:1 has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested resource. If an opaque response serves your needs, set the request's mode to 'no-cors' to fetch the resource with CORS disabled.

✖ ▶ GET <http://localhost:3000/> net::ERR\_FAILED 200 (OK) App.jsx:25 ⓘ

✖ ▶ Uncaught (in promise) TypeError: Failed to fetch at onSubmit (App.jsx:25:19) at react-hook-form.js?v=6afc2ffb:1603:15 App.jsx:25 ⓘ

▶

harry  
.....  
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EXPLORER ... node node App.jsx

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- package-lock.json
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- README.md
- vite.config.js

OUTLINE

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node

```
at ModuleJob._instantiate (node:internal/modules/esm/module_job:132:21)
at async ModuleJob.run (node:internal/modules/esm/module_job:214:5)
at async ModuleLoader.import (node:internal/modules/esm/loader:329:24)
at async loadESM (node:internal/process/esm_loader:34:7)
at async handleMainPromise (node:internal/modules/run_main:113:12)

Node.js v20.10.0
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> node ./backend\server.js
Example app listening on port 3000
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> node ./backend\server.js
Example app listening on port 3000
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> npm i cors
[#####] \ reify:cors: timing reifyNode:node_modules/@esbuild/aix-ppc64 Completed in 7ms
```

A circular video feed in the bottom right corner of the screen, showing a man with dark hair, a beard, and glasses. He is wearing a black t-shirt with a blue atomic symbol on it. He is speaking into a black microphone. The background shows a room with red acoustic panels on the wall.

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npmjs.com/package/cors

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- Usage
  - Simple Usage
  - Enable CORS for a Single Route
  - Configuring CORS
  - Configuring CORS Asynchronously
  - Enabling CORS Pre-Flight
- Configuration Options
- Demo
- License
- Author

## Installation

This is a [Node.js](#) module available through the [npm registry](#). Installation is done using the `npm install` command:

```
$ npm install cors
```

## Usage

### Simple Usage (Enable All CORS Requests)

```
var express = require('express')
var cors = require('cors')
var app = express()

app.use(cors())

app.get('/products/:id', function (req, res, next) {
  res.json({msg: 'This is CORS-enabled for all origins!'})
})

app.listen(80, function () {
  console.log('CORS-enabled web server listening on port 80')
})
```

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- package.json
- README.md
- vite.config.js

backend > JS server.js > ...

```
1 import express from "express"
2 import cors from "cors" ←
3 const app = express()
4 const port = 3000
5
6 app.use(cors())
7
8 app.get('/', (req, res) => {
9   res.send('Hello World!')
10 }
11
12 app.post('/', (req, res) => {
13   console.log(req.body, req.form, req)
14   // console.log("Yes", req)
15   res.send('Hello World!')
16 }
17
18 app.listen(port, () => {
19   console.log(`Example app listening on port ${port}`)
20 })
```



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localhost:5173

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react-dom\_client.js?v=c8a59dce:21534  
Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

▶ {username: 'harry', password: 'harryharryharry'} App.jsx?t=1708428585691:38

✖ Access to fetch at '<http://localhost:3000/>' from origin '<http://localhost:5173>' localhost:1 has been blocked by CORS policy: No 'Access-Control-Allow-Origin' header is present on the requested resource. If an opaque response serves your needs, set the request's mode to 'no-cors' to fetch the resource with CORS disabled.

✖ ▶ GET <http://localhost:3000/> net::ERR\_FAILED 200 (OK) App.jsx:25 ⓘ

✖ ▶ Uncaught (in promise) TypeError: Failed to fetch at onSubmit (App.jsx:25:19) at <react-hook-form.js?v=6afc2ffb:1603:15> App.jsx:25 ⓘ

▶ {username: 'harry', password: 'harryharryharry'} 'Hello World!' App.jsx:27

>

harry  
\*\*\*\*\*  
Submit



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developer.mozilla.org/en-US/docs/Web/API/Fetch\_API/Using\_Fetch

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post 1/12 Filter

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English (US)

References > Web APIs > Fetch API > Using the Fetch API

The `fetch()` method can optionally accept a second parameter, an `init` object that allows you to control a number of different settings:

Fetch API

▼ Guides

- Using the Fetch API
- Fetch basic concepts
- Cross-global fetch usage

▼ Interfaces

- Headers
- Request
- Response

▼ Methods

- fetch()

See `fetch()` for the full options available, and more details.

JS

```
// Example POST method implementation:  
async function postData(url = "", data = {}) {  
    // Default options are marked with *  
    const response = await fetch(url, {  
        method: "POST", // *GET, POST, PUT, DELETE, etc.  
        mode: "cors", // no-cors, *cors, same-origin  
        cache: "no-cache", // *default, no-cache, reload, force-cache, only-if-cached  
        credentials: "same-origin", // include, *same-origin, omit  
        headers: {  
            "Content-Type": "application/json",  
            // 'Content-Type': 'application/x-www-form-urlencoded',  
        },  
        redirect: "follow", // manual, *follow, error  
        referrerPolicy: "no-referrer", // no-referrer, *no-referrer-when-downgrade, origin, origin-  
        when-cross-origin, same-origin, strict-origin, strict-origin-when-cross-origin, unsafe-url  
        body: JSON.stringify(data), // body data type must match "Content-Type" header  
    });  
    return response.json(); // parses JSON response into native JavaScript objects  
}  
  
postData("https://example.com/answer", { answer: 42 }).then((data) => {  
    console.log(data); // JSON data parsed by `data.json()` call  
});
```

Note that `mode: "no-cors"` only allows a limited set of headers in the request:

- Accept
- Accept-Language

In this article

Supplying request options

- Aborting a fetch
- Sending a request with credentials included
- Uploading JSON data
- Uploading a file
- Uploading multiple files
- Processing a text file line by line
- Checking that the fetch was successful
- Supplying your own request object
- Headers
- Response objects
- Body
- Feature detection
- Differences from `jQuery.ajax()`

See also



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EXPLORER ... node powershell App.jsx X JS server.js

src > App.jsx > App > onSubmit > r

```
4
5
6
7 function App() {
8     const [
9         register,
10        handleSubmit,
11        setError,
12        formState: { errors, isSubmitting },
13    } = useForm();
14
15    const delay = (d)=>{
16        return new Promise((resolve, reject)=>{
17            setTimeout(() => {
18                resolve()
19            }, d * 1000);
20        })
21    }
22
23    const onSubmit = async (data) => {
24        // await delay(2) // simulating network delay
25        let r = await fetch("http://localhost:3000/", [method: "POST", body: JSON.stringify(data)])
26        let res = await r.text()
27        console.log(data, res)
28        // if(data.username !== "shubham"){
29        //     setError("myform", {message: "Your form is not in good order because credentials invalid"})
30        // }
```





EXPLORER ... node node App.jsx X JS server.js X

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index.html  
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package.json  
README.md  
vite.config.js

src > App.jsx > App > onSubmit > r > headers

```
10  handleSubmit,
11  setError,
12  formState: { errors, isSubmitting },
13  } = useForm();
14
15  const delay = (d)=>{
16    return new Promise((resolve, reject)=>{
17      setTimeout(() => {
18        resolve()
19        }, d * 1000);
20    })
21  }
22
23  const onSubmit = async (data) => {
24    // await delay(2) // simulating network delay
25    let r = await fetch("http://localhost:3000/", {method: "POST", headers: [
26      "Content-Type": "application/json",
27      ], body: JSON.stringify(data)})
28    let res = await r.text()
29    console.log(data, res)
30    // if(data.username !== "shubham"){
31    //   setError("myform", {message: "Your form is not in good order because credentials are invalid"})
32    // }
33    // if(data.username === "rohan"){
34    //   setError("blocked", {message: "Sorry this user is blocked"})
35    // }
36 }
```



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- JS server.js
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  - vite.config.js

backend > JS server.js > app.listen() callback

```
1 import express from "express"
2 import cors from "cors"
3 const app = express()
4 const port = 3000
5
6 app.use(cors())
7
8 app.get('/', (req, res) => {
9   res.send('Hello World!')
10 }
11
12 app.post('/', (req, res) => {
13   console.log(req.body)
14   res.send('Hello World!')
15 }
16
17 app.listen(port, () => [
18   console.log(`Example app listening on port ${port}`)
19 ])
```



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- backend
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node App.jsx server.js

username Aa ab ■\* No results ↑ ↓ ×

```
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> nodemon .\backend\server.js
[nodemon] 3.0.2
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): ***!
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node .\backend\server.js`
Example app listening on port 3000
```

New version of nodemon available!  
Current Version: 3.0.2  
Latest Version: 3.0.3



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EXPLORER ... node node App.jsx server.js

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username Aa ab ■\* No results ↑ ↓ ×

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C

[nodemon] 3.0.2

[nodemon] to restart at any time, enter `rs`

[nodemon] watching path(s): \*.\*

[nodemon] watching extensions: js,mjs,cjs,json

[nodemon] starting `node ./backend/server.js`

Example app listening on port 3000

New version of nodemon available!

Current Version: 3.0.2

Latest Version: 3.0.3

undefined

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EXPLORER ... node node X App.jsx JS server.js body Aa ab \* 20 of 20 ↑ ↓ ×

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```
'content-type': 'application/json',
accept: '*/*',
origin: 'http://localhost:5173',
'sec-fetch-site': 'same-site',
'sec-fetch-mode': 'cors',
'sec-fetch-dest': 'empty',
referer: 'http://localhost:5173/',
'accept-encoding': 'gzip, deflate, br',
'accept-language': 'en-US,en;q=0.9'
},
[Symbol(kHeadersCount)]: 32,
[Symbol(kTrailers)]: null,
[Symbol(kTrailersCount)]: 0
}
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> ^C
● PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> npm i body-parser
added 2 packages, changed 2 packages, and audited 333 packages in 886ms
101 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 119> nodemon .\backend\server.js
[nodemon] 3.0.2
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): ***!
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node .\backend\server.js`
Example app listening on port 3000
```

body

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This error will occur when the request had a `Content-Encoding` header that contained an unsupported encoding. The encoding is contained in the message as well as in the `encoding` property. The `status` property is set to `415`, the `type` property is set to `'encoding.unsupported'`, and the `encoding` property is set to the encoding that is unsupported.

## Examples

### Express/Connect top-level generic

This example demonstrates adding a generic JSON and URL-encoded parser as a top-level middleware, which will parse the bodies of all incoming requests. This is the simplest setup.

```
var express = require('express')
var bodyParser = require('body-parser')

var app = express()

// parse application/x-www-form-urlencoded
app.use(bodyParser.urlencoded({ extended: false }))

// parse application/json
app.use(bodyParser.json())

app.use(function (req, res) {
  res.setHeader('Content-Type', 'text/plain')
  res.write('you posted:\n')
  res.end(JSON.stringify(req.body, null, 2))
})
```

### Express route-specific

This example demonstrates adding body parsers specifically to the routes that need them. In general, this is the most recommended way to use body-parser with Express.

```
var express = require('express')
var bodyParser = require('body-parser')
```



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node node App.jsx × JS server.js ×

backend > JS server.js > ...

```
1 import express from "express"
2 import cors from "cors"
3 import bodyParser from "body-parser" ←
4 const app = express()
5 const port = 3000
6
7 app.use(cors())
8 app.use(bodyParser.json())
9
10 app.get('/', (req, res) => {
11   res.send('Hello World!')
12 }
13
14 app.post('/', (req, res) => {
15   console.log(req)
16   res.send('Hello World!')
17 }
18
19 app.listen(port, () => {
20   console.log(`Example app listening on port ${port}`)
21 })
```



EXPLORER ...

VIDEO 119

backend

- JS server.js
- > node\_modules
- > public
- src
  - > assets
    - App.css
    - App.jsx
    - index.css
    - main.jsx
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

node node App.jsx X JS server.js X

backend > JS server.js > app.post('/').callback

```
1 import express from "express"
2 import cors from "cors"
3 import bodyParser from "body-parser"
4 const app = express()
5 const port = 3000
6
7 app.use(cors())
8 app.use(bodyParser.json())
9
10 app.get('/', (req, res) => {
11   res.send('Hello World!')
12 })
13
14 app.post('/', (req, res) => {
15   console.log(req.body)
16   res.send('Hello World!')
17 })
18
19 app.listen(port, () => {
20   console.log(`Example app listening on port ${port}`)
21 })
```



localhost:5173



Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Els with Express

harry2

.....

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EXPLORER ... node node App.jsx JS server.js

VVIDEO 119 backend JS server.js node\_modules public src assets App.css App.jsx index.css main.jsx .eslintrc.cjs .gitignore index.html package-lock.json package.json README.md vite.config.js

route: Route { path: '/', stack: [ [Layer] ], methods: { post: [Symbol(kCapture)]: false, [Symbol(kHeaders)]: { host: 'localhost:3000', connection: 'keep-alive', 'content-length': '49', 'sec-ch-ua': '"Not A(Brand";v="99", "Google Chrome";v="121", "Chromium";v="121"', 'sec-ch-ua-platform': '"Windows"', 'sec-ch-ua-mobile': '?0', 'user-agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0 Safari/537.36', 'content-type': 'application/json', accept: '\*/\*', origin: 'http://localhost:5173', 'sec-fetch-site': 'same-site', 'sec-fetch-mode': 'cors', 'sec-fetch-dest': 'empty', referer: 'http://localhost:5173/', 'accept-encoding': 'gzip, deflate, br', 'accept-language': 'en-US,en;q=0.9' }, [Symbol(kHeadersCount)]: 32, [Symbol(kTrailers)]: null, [Symbol(kTrailersCount)]: 0 } }

[nodemon] restarting due to changes...  
[nodemon] starting `node ./backend\server.js`  
Example app listening on port 3000  
{ username: 'harry', password: 'harryharryharry' }  
{ username: 'harry2', password: 'harryharryharry' }

Aa ab \* 1 of 1 ↑ ↓ ×

username

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