

7:13 (1)

62.54 KB/s 5G 52%



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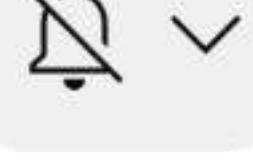
## Introduction to Next.js & File based routing | Sigma Web Development Course - Tutorial...

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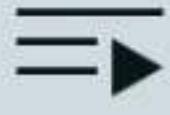


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# Multi-Tenant

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## How to Build Multi-Tenant Authentication



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Used by some of the world's largest companies, Next.js enables you to create high-quality web applications with the power of React components.

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Add components without sending additional client-

14°C Haze

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The screenshot shows the official Next.js website at [nextjs.org](https://nextjs.org). The page features a dark header with navigation links like 'Showcase', 'Docs', 'Blog', 'Analytics', 'Templates', and 'Enterprise'. Below the header is a main section with a dark background and white text. It highlights that Next.js is used by large companies and enables creating high-quality web applications with React components. Two buttons, 'Get Started' and 'Learn Next.js', are visible. A terminal-like interface below the text shows the command `~ npx create-next-app@latest ↵`. To the right, there's a large circular profile picture of a man with glasses and a beard, wearing a blue t-shirt with an atom logo. Below the profile picture is a 'Subscribe' button. At the bottom of the screen, a Windows taskbar is visible with various icons and system status information.

File Edit Selection View Go ... ⏪ ⏩ Video 121 ⏷ ⏸ ⏹ ⏺ ⏻

EXPLORER ... node X ⏷ ⏸ ⏹ ⏺ ⏻

VIDEO 121 > first

```
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 121> npx create-next-app@latest
  ✓ What is your project named? ... first
  ✓ Would you like to use TypeScript? ... No / Yes
  ✓ Would you like to use ESLint? ... No / Yes
  ✓ Would you like to use Tailwind CSS? ... No / Yes
  ✓ Would you like to use `src/` directory? ... No / Yes
  ✓ Would you like to use App Router? (recommended) ... No / Yes
  ✓ Would you like to customize the default import alias (@/*)? ... No / Yes
Creating a new Next.js app in C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 121\first.

Using npm.

Initializing project with template: app-tw

Installing dependencies:
- react
- react-dom
- next

Installing devDependencies:
- autoprefixer
- postcss
- tailwindcss
- eslint
- eslint-config-next

[#####.....] / idealTree:postcss-load-config: sill fetch manifest fsevents@~2.3.2
```

OUTLINE ⏷ ⏸ ⏹ ⏺ ⏻

TIMELINE ⏷ ⏸ ⏹ ⏺ ⏻

TASK EXPLORER ⏷ ⏸ ⏹ ⏺ ⏻

14°C Haze ⏷ ⏸ ⏹ ⏺ ⏻

Search ⏷ ⏸ ⏹ ⏺ ⏻

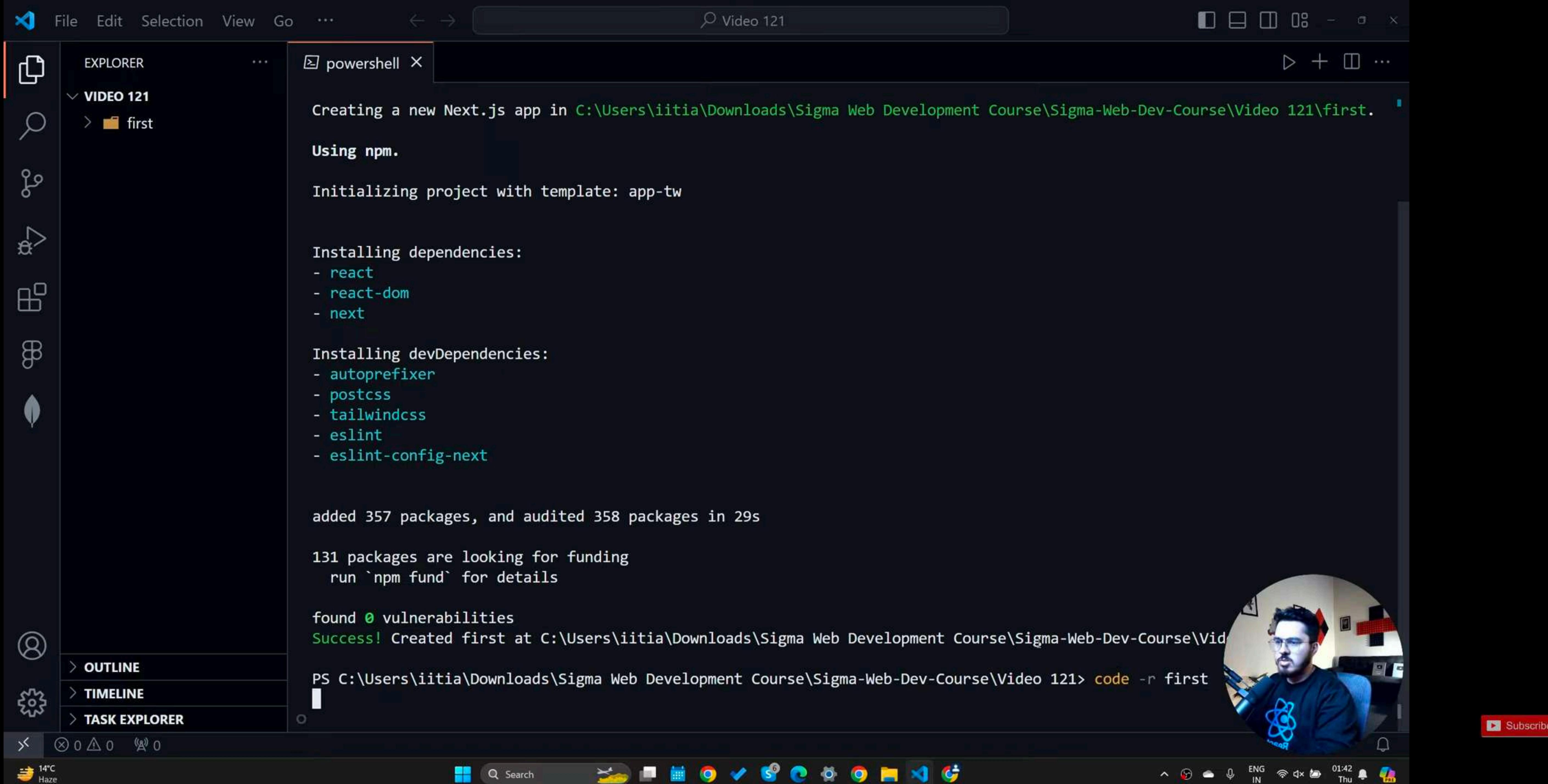
14°C Haze ⏷ ⏸ ⏹ ⏺ ⏻

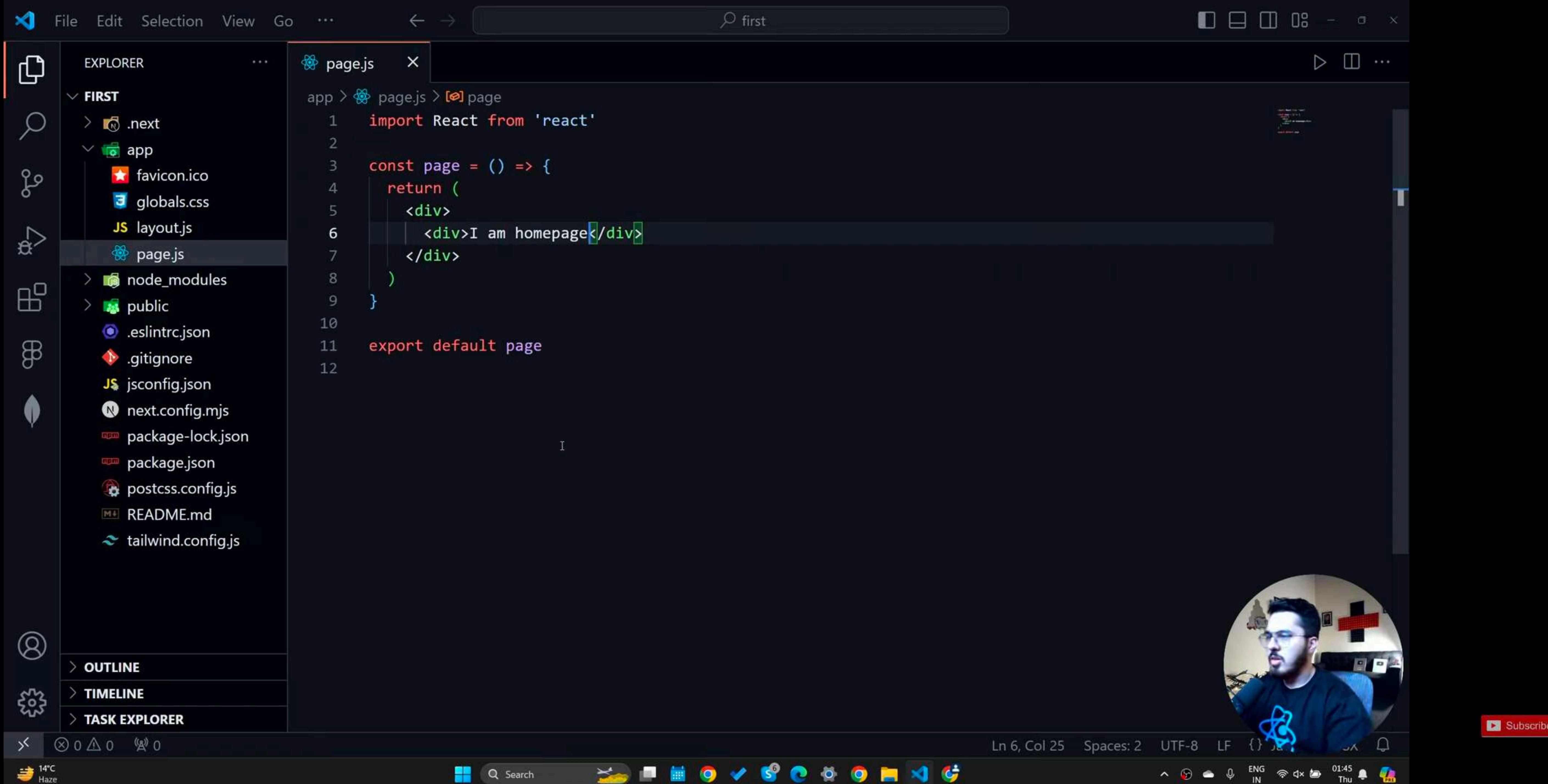
ENG IN ⏷ ⏸ ⏹ ⏺ ⏻

01:41 Thu ⏷ ⏸ ⏹ ⏺ ⏻

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EXPLORER ...

FIRST .next app about JS page.js favicon.ico globals.css 3 JS layout.js page.js node\_modules public .eslintrc.json .gitignore .jsconfig.json next.config.mjs package-lock.json package.json postcss.config.js README.md tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

page.js app globals.css 3 JS page.js ...\\about X

app > about > JS page.js > [x] page

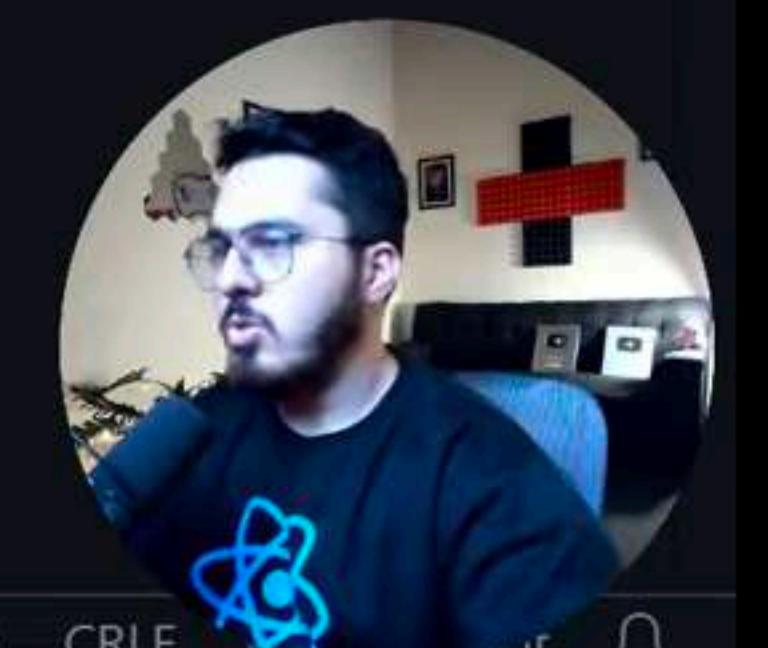
```
1 import React from 'react'
2
3 const page = () => {
4   return [
5     <div>
6       | I am about
7     </div>
8   ]
9 }
10
11 export default page
12
```

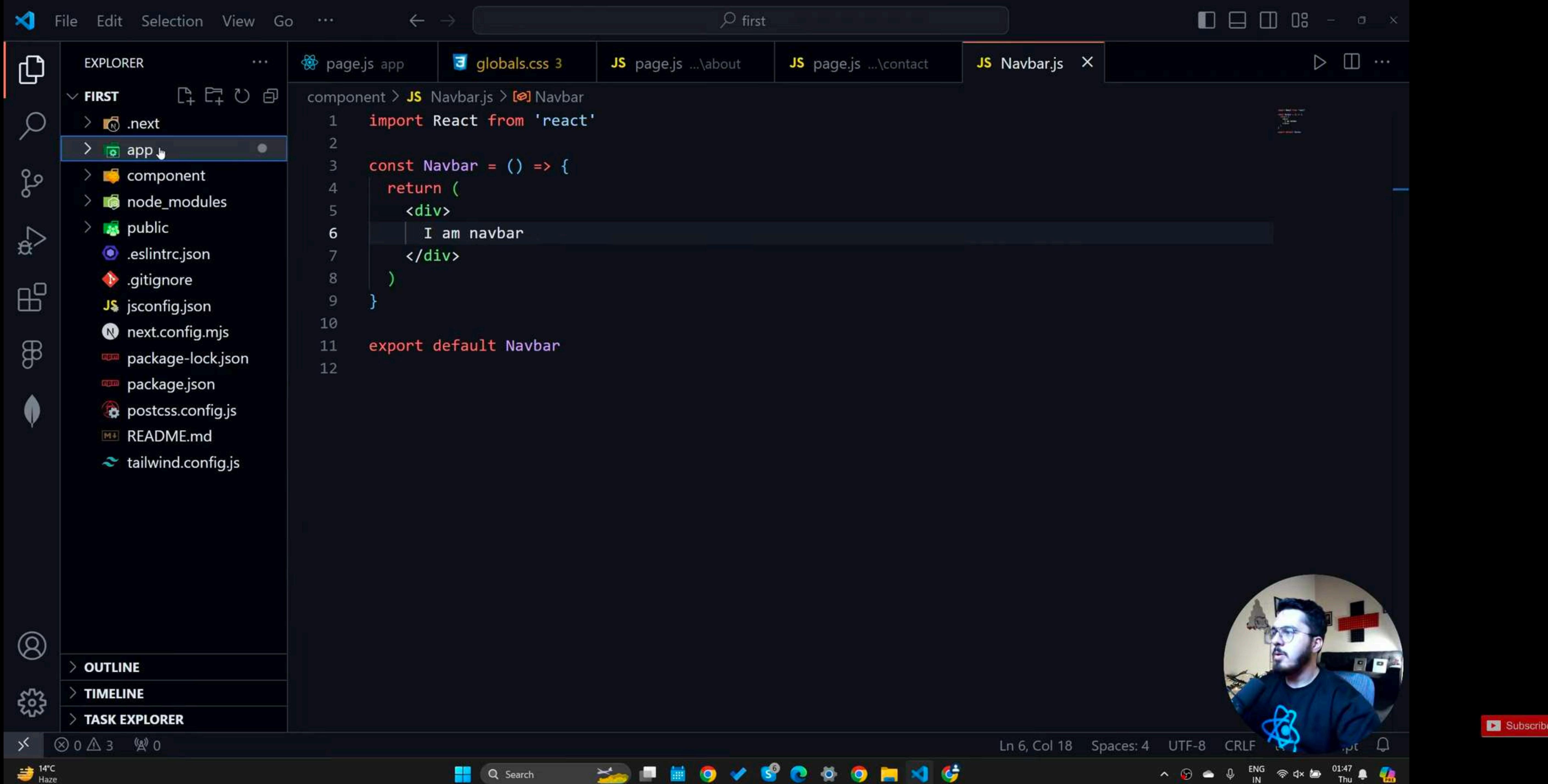
Ln 6, Col 17 Spaces: 4 UTF-8 CRLF .pt

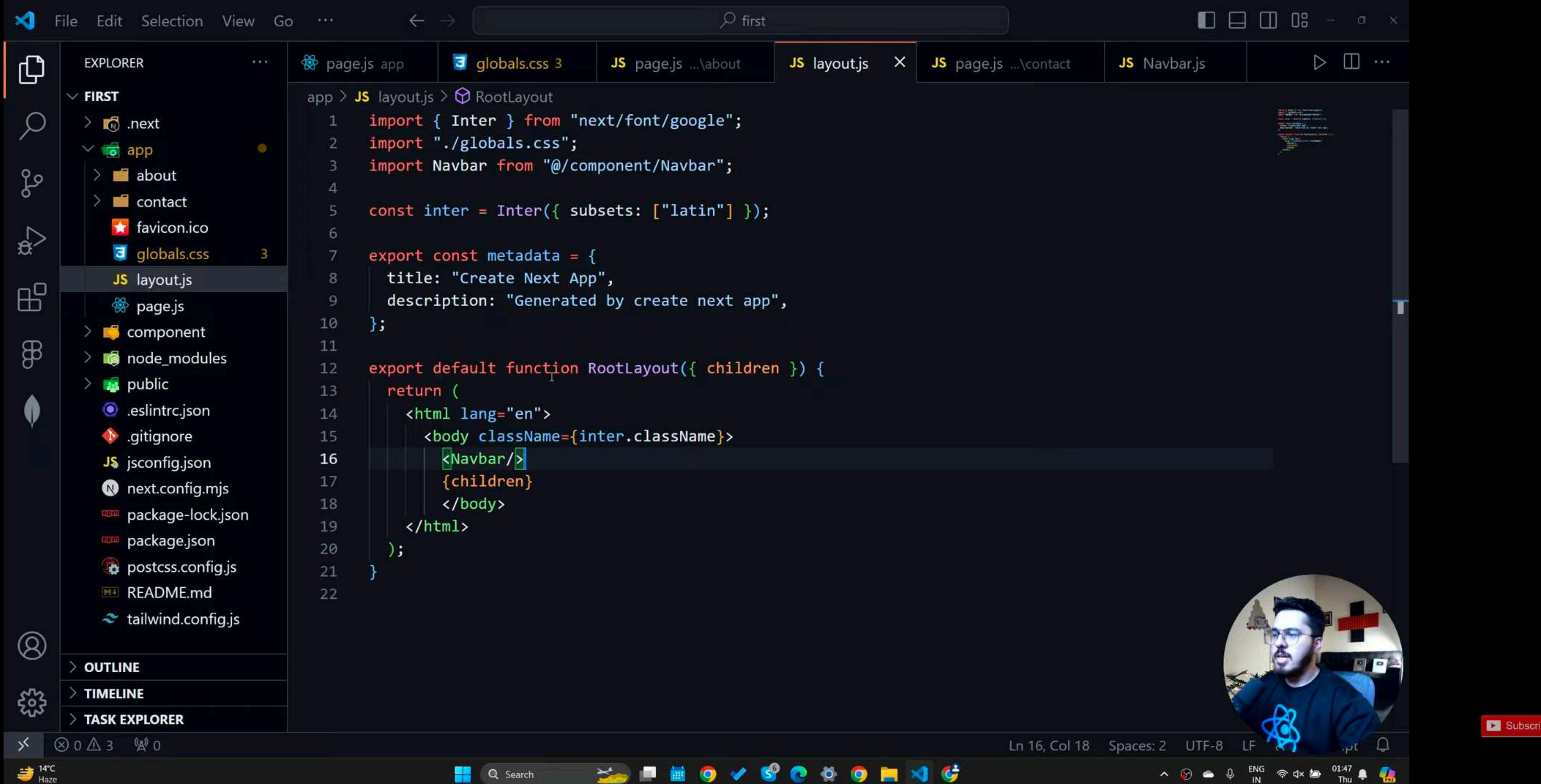
14°C Haze

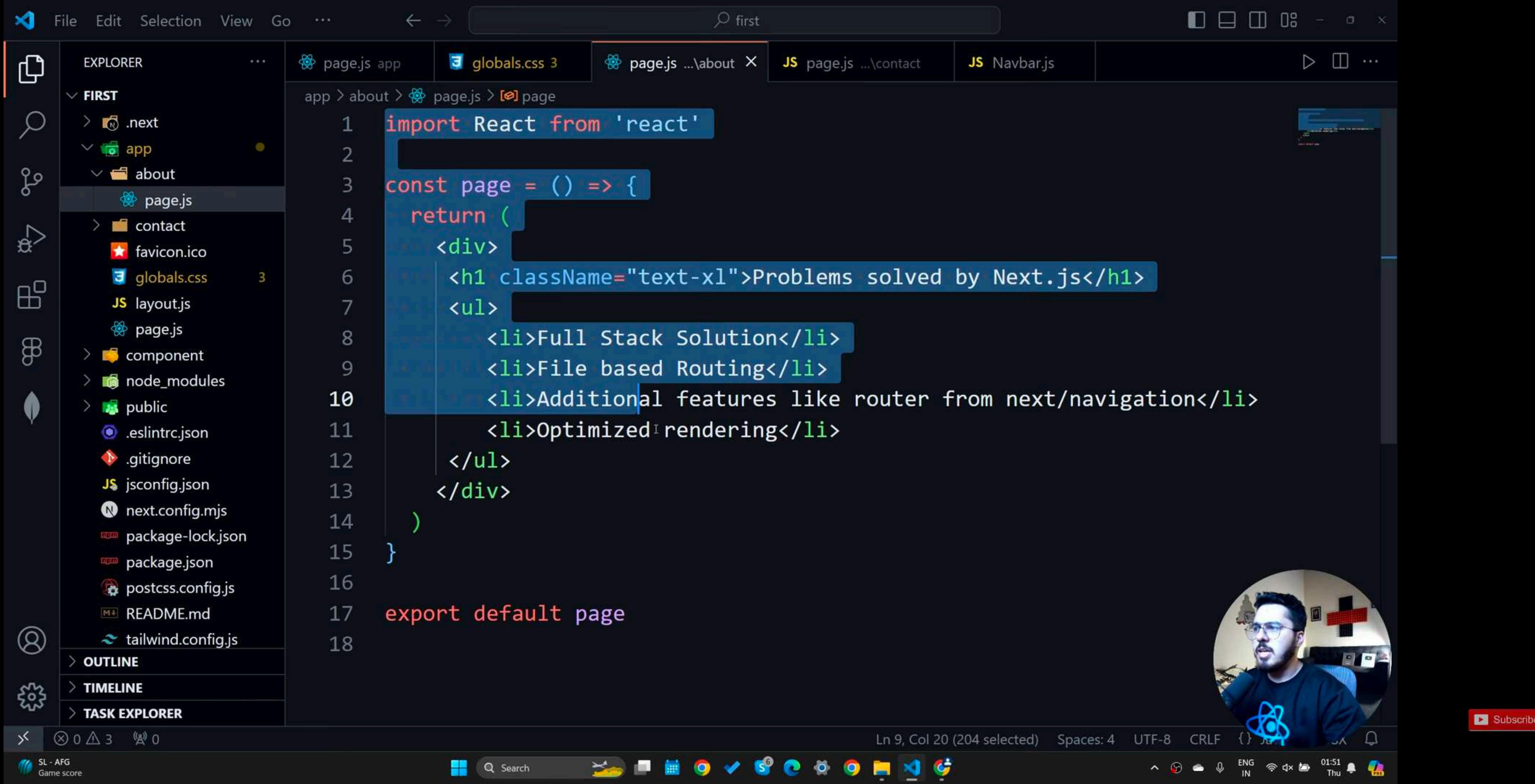
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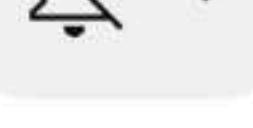
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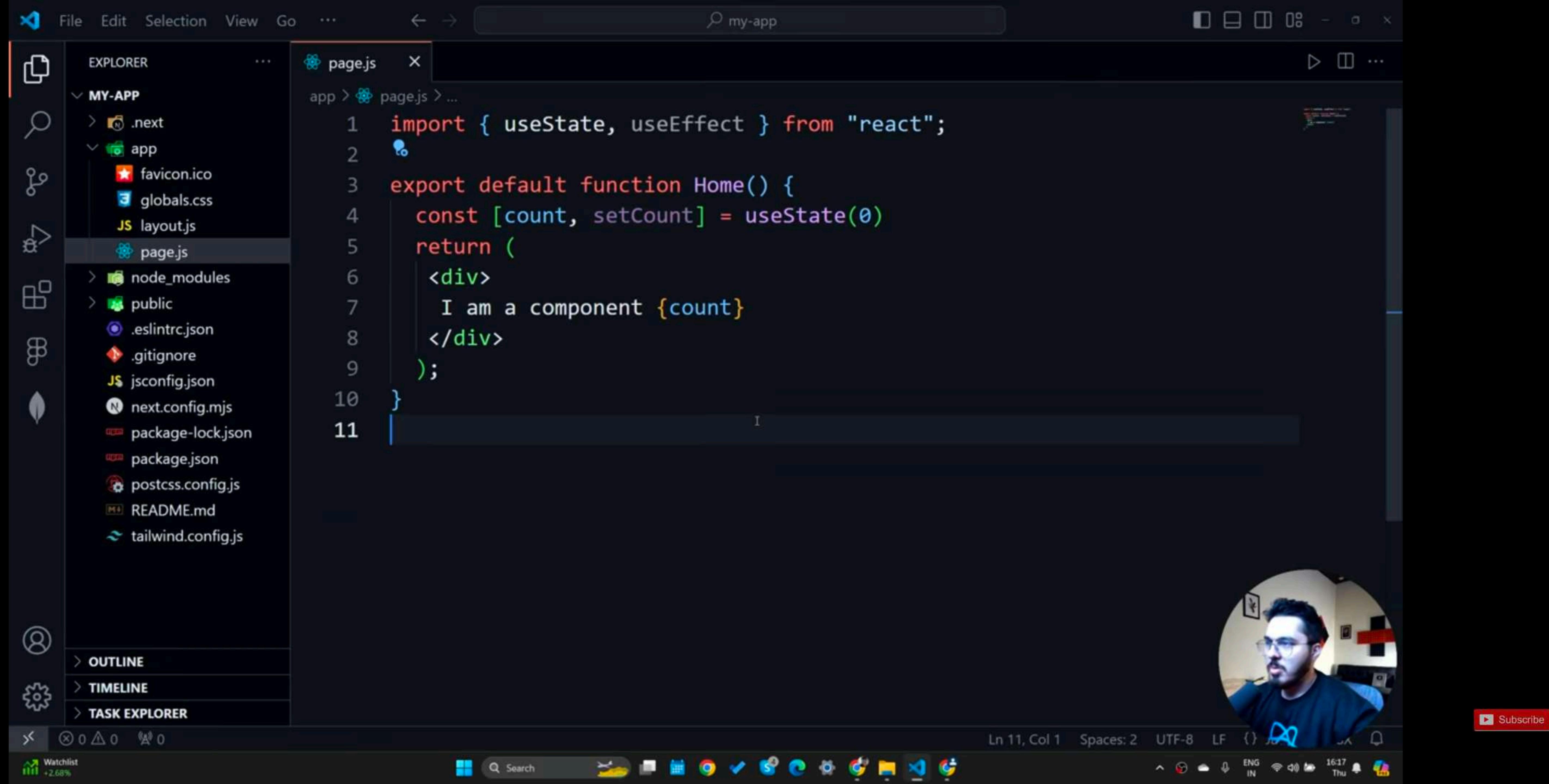
Next: Script, Link & Image components in Next.j...



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EXPLORER

MY-APP

- > .next
- > app
  - favicon.ico
  - globals.css
  - JS layout.js
- page.js
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- JS jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.js
- README.md
- tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

page.js

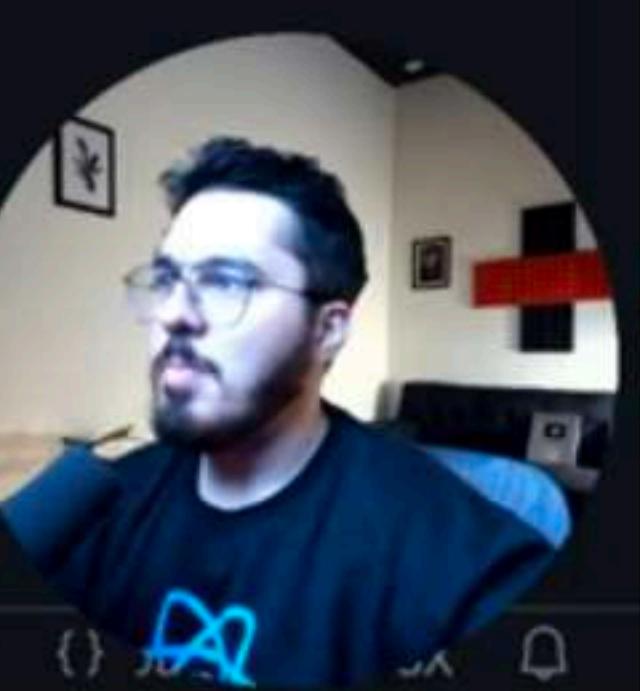
app > page.js > ...

```
1 "use client"
2 import { useState, useEffect } from "react";
3
4 export default function Home() {
5   const [count, setCount] = useState(0)
6   return (
7     <div>
8       I am a component {count}
9     </div>
10  );
11 }
12 |
```

Ln 12, Col 1 Spaces: 2 UTF-8 LF { }  

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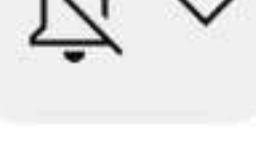
## Script, Link & Image components in Next.js | Sigma Web Development Course - Tutorial...

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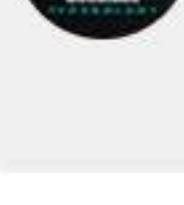


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Ghammand to iss bat ka ha ke mein woh sab free mein sekh raha ho jo mera dost 1lakh de ke sekha. Thank you...



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EXPLORER WEBSITE

components > JS Navbar.js > [o] default

```
1 import React from 'react'
2
3 const Navbar = () => {
4   return (
5     <nav className='flex justify-around bg-slate-800 text-white py-4'>
6       <div className="logo font-bold">Facebook</div>
7       <ul className='flex gap-6'>
8         <a href='/'><li>Home</li></a>
9         <a href='/about'><li>About</li></a>
10        <a href='/contact'><li>Contact</li></a>
11      </ul>
12    </nav>
13  )
14}
15
16 export default Navbar
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell + X

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 123\website> npm run



Ln 16, Col 22 Spaces: 4 UTF-8 CRLF ENG IN 19°C Mostly cloudy 20:53 Thu

EXPLORER

WEBSITE

- > app
- > components
  - JS Footer.js
  - JS Navbar.js
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.js
- README.md
- tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

JS Navbar.js JS Footer.js X

components > JS Footer.js > [?] default

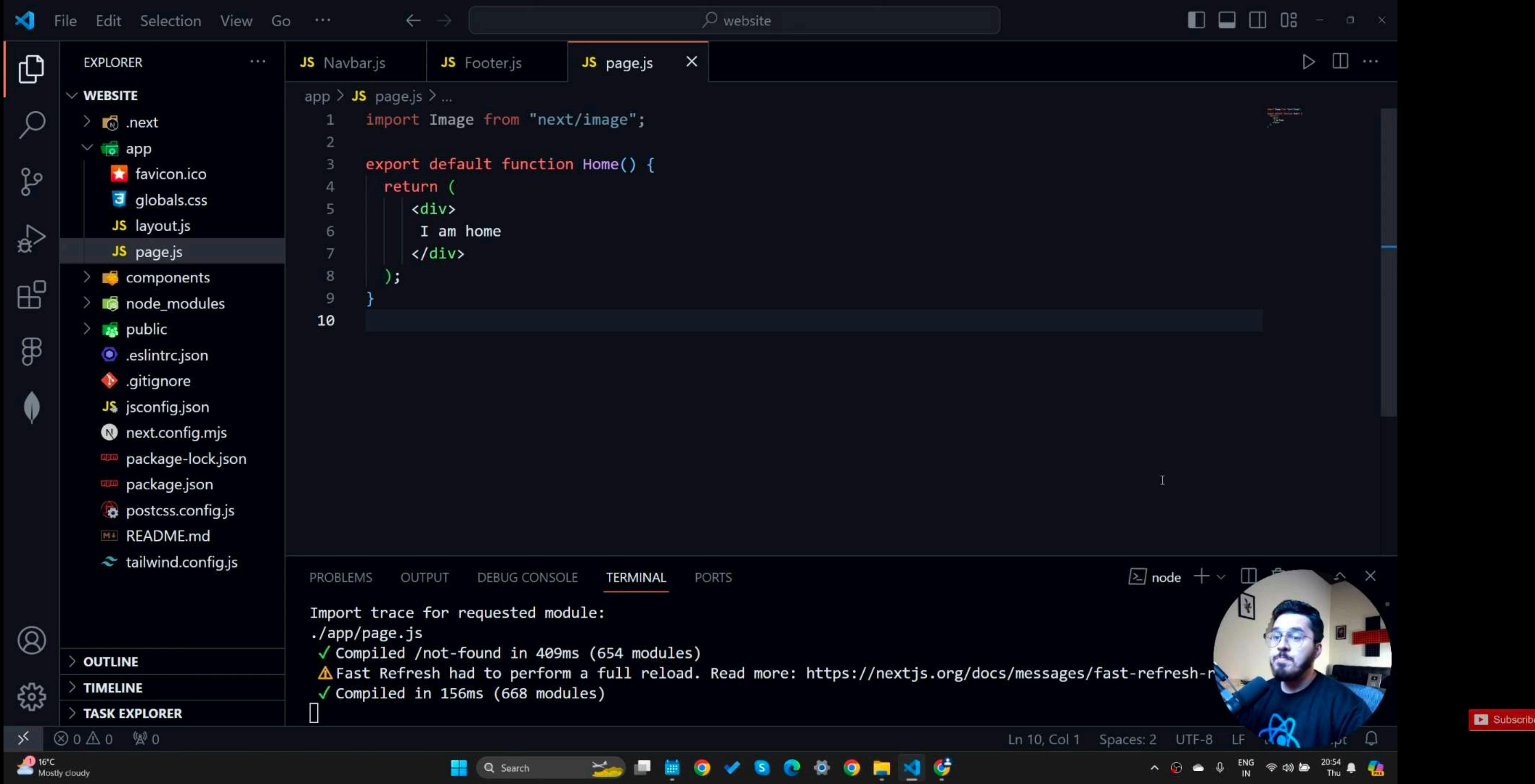
```
1 import React from 'react'
2
3 const Footer = () => {
4   return (
5     <footer className='flex justify-around bg-slate-800 text-white py-4'>
6       <div className="text-center">Copyright © Facebook | All rights reserved</div>
7       <ul className='flex gap-2 text-sm'>
8         <a href='/'><li className='text-xs'>Home</li></a>
9         <a href='/about'><li className='text-xs'>About</li></a>
10        <a href='/contact'><li className='text-xs'>Contact</li></a>
11      </ul>
12    </footer>
13  )
14}
15
16 export default Footer
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 123\website> npm run



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File Edit Selection View Go ... 🔍 website

EXPLORER

WEBSITE

- > .next
- > app
  - favicon.ico
  - globals.css
- JS layout.js
- JS page.js
- > components
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- JS jsconfig.json
- (N) next.config.mjs
- npm package-lock.json
- npm package.json
- postcss.config.js
- README.md
- tailwind.config.js

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

⚠ Fast Refresh had to perform a full reload. Read more: <https://nextjs.org/docs/messages/fast-refresh-reload>

✓ Compiled in 156ms (668 modules)

✓ Compiled in 299ms (654 modules)

✓ Compiled in 155ms (668 modules)

✓ Compiled in 165ms (661 modules)

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EXPLORER

WEBSITE

- > .next
- > app
  - favicon.ico
  - globals.css
- JS layout.js
- JS page.js
- > components
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.js
- README.md
- tailwind.config.js

JS Navbar.js JS Footer.js JS page.js JS layout.js X

app > JS layout.js > RootLayout

```
6  export const metadata = {
7    title: "Facebook - Connect with the world",
8    description: "This is facebook and we can connect with the world using facebook",
9  };
10
11 export default function RootLayout({ children }) {
12   return (
13     <html lang="en">
14       <body className={inter.className}>
15         <Navbar/>
16         {children}
17         <Footer/>
18       </body>
19     </html>
20   );
21 }
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + ×

```
> 15 <Navbar/>
^
16 {children}
17 </body>
18 </html>
```

Ln 17, Col 18 Spaces: 2 UTF-8 LF ⚙️ 🔍

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EXPLORER

WEBSITE

- > .next
- > app
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS page.js
- > components
  - JS Footer.js
  - JS Navbar.js
- > node\_modules
- > public
  - .eslintrc.json
  - .gitignore
  - JS jsconfig.json
  - N next.config.mjs
  - npm package-lock.json
  - npm package.json
  - postcss.config.js
  - README.md
  - tailwind.config.js

JS Navbar.js JS Footer.js JS page.js JS layout.js X

```
app > JS layout.js > RootLayout
  7
  8   export const metadata = {
  9     title: "Facebook - Connect with the world",
10     description: "This is facebook and we can connect with the world using facebook",
11   };
12
13   export default function RootLayout({ children }) {
14     return (
15       <html lang="en">
16         <body className={inter.className}>
17           <Navbar />
18           <div className="container mx-auto min-h-[85vh]">
19             {children}
20           </div>
21           <Footer />
22         </body>
23       </html>
24     );
25   }
26
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + X

✓ Compiled in 147ms (663 modules)  
✓ Compiled in 143ms (663 modules)  
✓ Compiled in 139ms (663 modules)  
✓ Compiled in 154ms (663 modules)  
✓ Compiled in 178ms (663 modules)

Ln 18, Col 52 Spaces: 2 UTF-8 LF ⚡ 16°C Mostly cloudy

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EXPLORER

WEBSITE

- > .next
- app
  - about
    - JS page.js
    - favicon.ico
    - globals.css
    - JS layout.js
    - JS page.js
  - components
    - JS Footer.js
    - JS Navbar.js
  - node\_modules
  - public
  - .eslintrc.json
  - .gitignore
  - JS jsconfig.json
  - N next.config.mjs
  - npm package-lock.json
  - npm package.json
  - postcss.config.js
  - M README.md

JS Navbar.js JS Footer.js JS page.js ...\\about X JS page.js app JS layout.js

app > about > JS page.js > [x] page

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

Emmet Abbreviation

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

✓ Compiled in 169ms (663 modules)
✓ Compiled /not-found in 95ms (654 modules)
✓ Compiled in 128ms (364 modules)
✓ Compiled in 165ms (654 modules)
✓ Compiled in 110ms (364 modules)

node +



Ln 6, Col 12 Spaces: 4 UTF-8 CRLF

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EXPLORER

WEBSITE

- .next
- app
  - about
    - JS page.js
  - contact
    - JS page.js
- favicon.ico
- globals.css
- JS layout.js
- JS page.js
- components
  - JS Footer.js
  - JS Navbar.js
- node\_modules
- public
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json

OUTLINE

TIMELINE

TASK EXPLORER

JS Navbar.js JS Footer.js JS page.js ...\\about JS page.js ...\\contact X JS page.js app JS layout.js ⌂ ⌂ ⌂

app > contact > JS page.js > [x] contact

```
1 import React from 'react'
2
3 const contact = () => {
4   return [
5     <div>
6       | this is contact
7     </div>
8   ]
9 }
10
11 export default contact
```

abc contact abc Contact

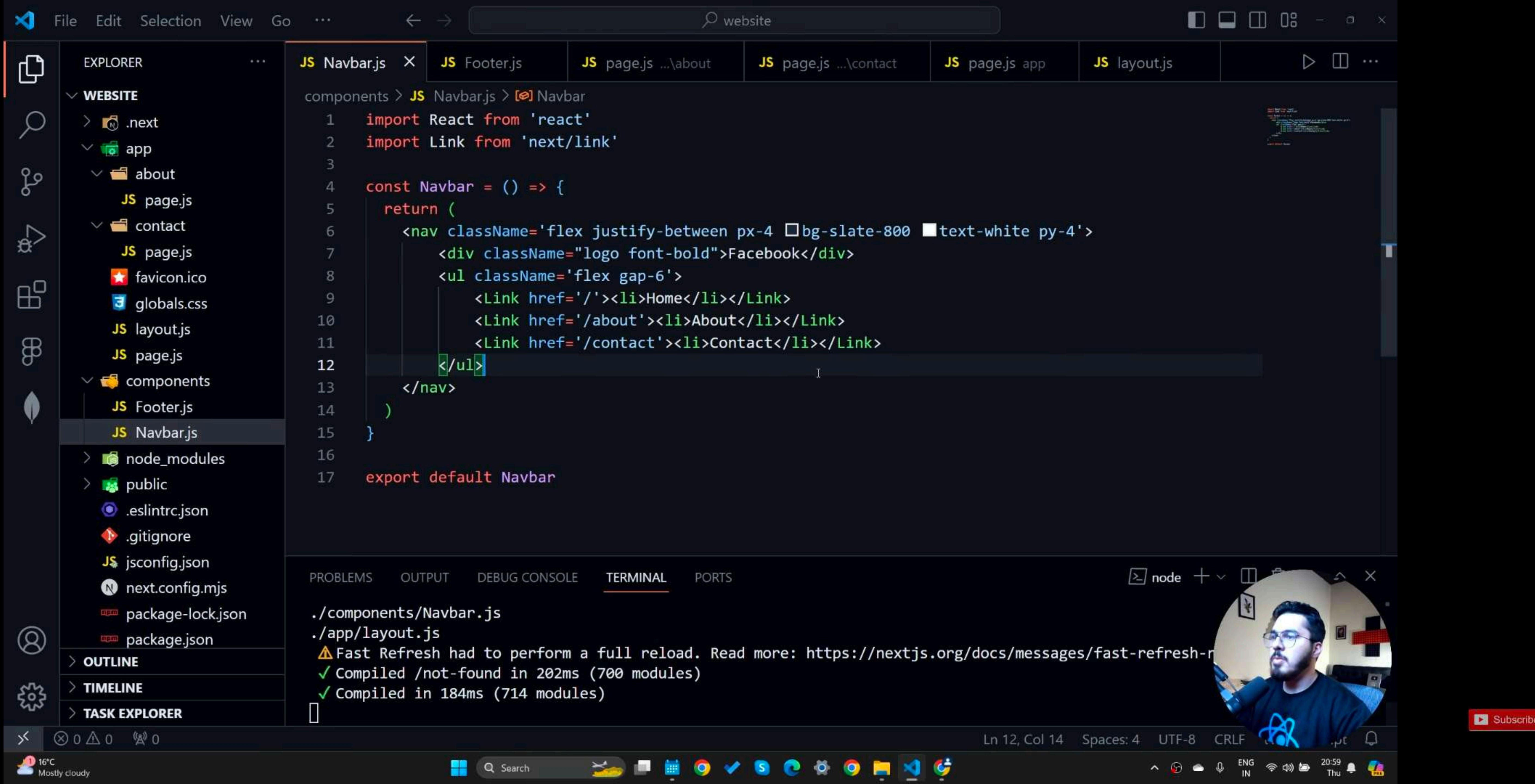
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + X

✓ Compiled in 110ms (364 modules)  
✓ Compiled in 99ms (364 modules)  
✓ Compiled in 107ms (364 modules)  
✓ Compiled in 146ms (654 modules)  
✓ Compiled in 90ms (364 modules)

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nextjs.org/docs/app/api-reference/components/link

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**Using App Router** Features available in /app

App Router > ... > Components > <Link>

**<Link>**

<Link> is a React component that extends the HTML <a> element to provide prefetching and client-side navigation between routes. It is the primary way to navigate between routes in Next.js.

`app/page.tsx` TypeScript

```
1 import Link from 'next/link'
2
3 export default function Page() {
4   return <Link href="/dashboard">Dashboard</Link>
5 }
```

**Props**

Here's a summary of the props available for the Link Component:

Prop	Example	Type	Required
<code>href</code>	<code>href="/dashboard"</code>	String or Object	Yes
<code>replace</code>	<code>replace={false}</code>	Boolean	-
<code>scroll</code>	<code>scroll={false}</code>	Boolean	-
<code>prefetch</code>	<code>prefetch={false}</code>	Boolean or null	-

On this page

- Props
- `href` (required)
- `replace`
- `scroll`
- `prefetch`
- Examples
- Linking to Dynamic Routes
- Middleware

Version History

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nextjs.org/docs/app/api-reference/components/link

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# NEXT.js

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Using App Router Features available in /app

Getting Started Installation Project Structure

Building Your Application Routing Data Fetching Rendering Caching Styling Optimizing Configuring Testing Authentication Deploying Upgrading

API Reference Components

- Font
- <Image>
- <Link>**
- <Script>

File Conventions

TypeScript

app/page.tsx

```
1 import Link from 'next/link'
2
3 export default function Page() {
4   return <Link href="/dashboard">Dashboard</Link>
5 }
```

On this page

- Props
- href (required)
- replace
- scroll
- prefetch
- Examples
- Linking to Dynamic Routes
- Middleware
- Version History

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Props

Here's a summary of the props available for the Link Component:

Prop	Example	Type	Required
href	href="/dashboard"	String or Object	Yes
replace	replace={false}	Boolean	-
scroll	scroll={false}	Boolean	-
prefetch	prefetch={false}	Boolean or null	-

Good to know: <a> tag attributes such as className or target="\_blank" can be added to <Link> as props and will be passed to the underlying <a> element.

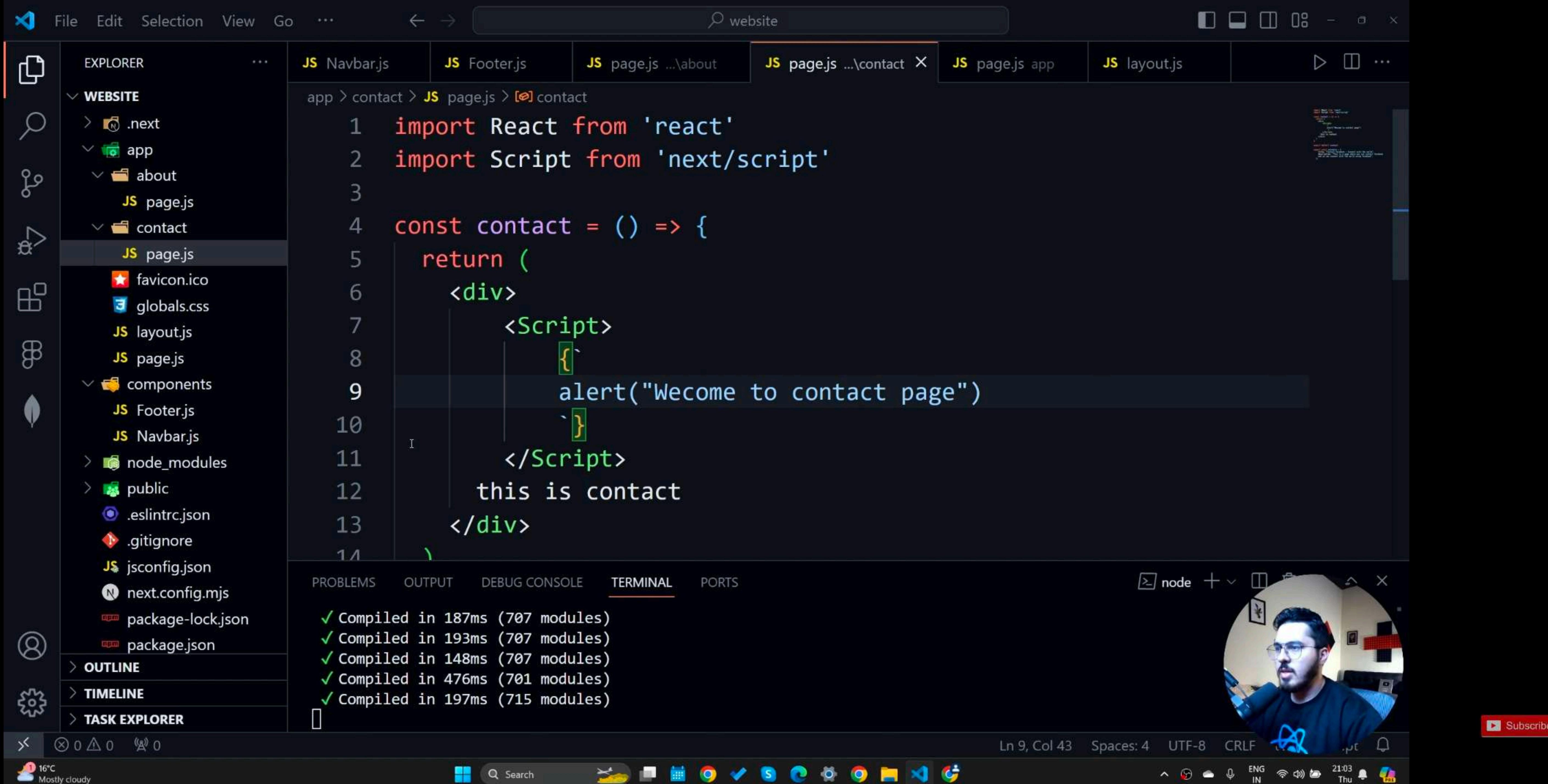
**href (required)**

The path or URL to navigate to.

```
<Link href="/dashboard">Dashboard</Link>
```



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EXPLORER

WEBSITE

- > .next
- < app
  - < about
    - JS page.js
  - < contact
    - JS page.js
- favicon.ico
- globals.css
- JS layout.js
- JS page.js
- < components
  - JS Footer.js
  - JS Navbar.js
- > node\_modules
- > public
  - .eslintrc.json
  - .gitignore
  - JS jsconfig.json
  - N next.config.mjs
  - npm package-lock.json
  - npm package.json

JS Navbar.js JS Footer.js JS page.js ...\\about JS page.js ...\\contact X JS page.js app JS layout.js ⌂ ⌂ ...

app > contact > JS page.js > [x] contact

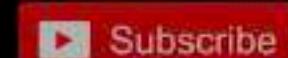
```
1 import React from 'react'
2 import Script from 'next/script'
3
4 const contact = () => {
5   return (
6     <div>
7       <Script>
8         |`| alert("Welcome to contact page");`|
9       </Script>
10      this is contact
11    </div>
12  )
13}
14
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + x

✓ Compiled in 476ms (701 modules)  
✓ Compiled in 197ms (715 modules)  
✓ Compiled in 153ms (715 modules)  
✓ Compiled in 176ms (715 modules)  
✓ Compiled in 177ms (715 modules)

Ln 8, Col 16 Spaces: 4 UTF-8 CRLF Atom



Sigma Web Development Course - Wi X Contact Facebook - Connect with the N Components: <Script> | Next.js

nextjs.org/docs/app/api-reference/components/script

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Using App Router Features available in /app

App Router > ... > Components > <Script>

On this page

Props

Required Props

src

Optional Props

strategy

beforeInteractive

afterInteractive

lazyOnload

worker

onLoad

onReady

onError

Version History

Edit this page on GitHub ↗

**<Script>**

This API reference will help you understand how to use [props](#) available for the Script Component. For features and usage, please see the [Optimizing Scripts](#) page.

```
app/dashboard/page.tsx
TypeScript
```

```
1 import Script from 'next/script'
2
3 export default function Dashboard() {
4   return (
5     <>
6       <Script src="https://example.com/script.js" />
7     </>
8   )
9 }
```

**Props**

Here's a summary of the props available for the Script Component:

Prop	Example	Type	Required
src	src="http://example.com/script"	String	Required unless inline script is used
strategy	strategy="lazyOnload"	String	-
onLoad	onLoad={onLoadFunc}	Function	-

Font

<Image>

<Link>

<Script>

File Conventions

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# Props

Here's a summary of the props available for the Script Component:

| Prop                  | Example                                      | Type     | Required                              |
|-----------------------|--|----------|---------------------------------------|
| <code>src</code>      | <code>src="http://example.com/script"</code> | String   | Required unless inline script is used |
| <code>strategy</code> | <code>strategy="lazyOnload"</code>           | String   | -                                     |
| <code>onLoad</code>   | <code>onLoad={onLoadFunc}</code>             | Function | -                                     |
| <code>onReady</code>  | <code>onReady={onReadyFunc}</code>           | Function | -                                     |
| <code>onError</code>  | <code>onError={onErrorFunc}</code>           | Function | -                                     |

## Required Props

The `<Script />` component requires the following properties.

### `src`

A path string specifying the URL of an external script. This can be either an absolute external URL or an internal path. The `src` property is required unless an inline script is used.

## Optional Props

On this page

- [Props](#)
- [Required Props](#)
- [src](#)
- [Optional Props](#)
- [strategy](#)
- [beforeInteractive](#)
- [afterInteractive](#)
- [lazyOnload](#)
- [worker](#)
- [onLoad](#)
- [onReady](#)
- [onError](#)

Version History

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App Router > ... > Components > <Image>

On this page

Props

Required Props

- src
- width
- height
- alt

Optional Props

- loader
- fill
- sizes
- quality
- priority
- placeholder

Advanced Props

- style
- onLoadingComplete
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- loading
- blurDataURL
- unoptimized

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**<Image>**

▶ Examples

This API reference will help you understand how to use [props](#) and [configuration options](#) available for the Image Component. For features and usage, please see the [Image Component](#) page.

```
app/page.js
```

```
1 import Image from 'next/image'
2
3 export default function Page() {
4   return (
5     <Image
6       src="/profile.png"
7       width={500}
8       height={500}
9       alt="Picture of the author"
10    />
11  )
12}
```

**Props**

Here's a summary of the props available for the Image Component:

| Prop              | Example  | Type     | Status   |
|-------------------|--|----------|----------|
| src               | src="/profile.png"   | String   | Required |
| width             | width={500}  | Number   | Optional |
| height            | height={500}   | Number   | Optional |
| alt               | alt="Picture of the author"  | String   | Optional |
| loader            | loader={<ImageLoader>}   | Function | Optional |
| fill              | fill="true"  | Boolean  | Optional |
| sizes             | sizes="sm md lg xl"  | String   | Optional |
| quality           | quality={0.5}  | Number   | Optional |
| priority          | priority="high"  | String   | Optional |
| placeholder       | placeholder={<ImagePlaceholder>}                                   | Function | Optional |
| style             | style={{color: "red", border: "1px solid black", padding: "10px"}} | Object   | Optional |
| onLoadingComplete | onLoadingComplete={<ImageOnLoadingComplete>}                       | Function | Optional |
| onLoad            | onLoad={<ImageOnLoad>}   | Function | Optional |
| onError           | onError={<ImageOnError>}   | Function | Optional |
| loading           | loading="lazy eager auto none"                                     | String   | Optional |
| blurDataURL       | blurDataURL={"/profile-blurred.png"}                               | String   | Optional |
| unoptimized       | unoptimized="true false"   | Boolean  | Optional |

File Conventions Prop Example Type Status

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Building Your Application Routing Data Fetching Rendering Caching Styling Optimizing Configuring Testing Authentication Deploying Upgrading

API Reference Components

- Font
- <Image>
- <Link>
- <Script>

File Conventions

▶ Examples

This API reference will help you understand how to use [props](#) and [configuration options](#) available for the Image Component. For features and usage, please see the [Image Component page](#).

On this page

- Props
- Required Props
- src
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- placeholder
- Advanced Props
- style
- onLoadingComplete
- onLoad
- onError
- loading
- blurDataURL
- unoptimized

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app/page.js

```
1 import Image from 'next/image'
2
3 export default function Page() {
4   return (
5     <Image
6       src="/profile.png"
7       width={500}
8       height={500}
9       alt="Picture of the author"
10    />
11  )
12}
```

## Props

Here's a summary of the props available for the Image Component:

| Prop   | Example                     | Type         | Status   |
|--------|-----------------------------|--------------|----------|
| src    | src="/profile.png"          | String       | Required |
| width  | width={500}                 | Integer (px) | Required |
| height | height={500}                | Integer (px) | Required |
| alt    | alt="Picture of the author" | String       | Required |
| loader | loader={imageLoader!}       | Function     | -        |



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EXPLORER

WEBSITE

- > .next
- > app
  - > about
    - JS page.js
  - > contact
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS page.js
- > components
  - JS Footer.js
  - JS Navbar.js
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- JS jsconfig.json
- N next.config.mjs
- package-lock.json
- package.json
- postcss.config.js

```
JS Navbar.js JS Footer.js JS page.js ...\\about JS page.js ...\\contact JS page.js app X JS layout.js > □ ...
```

app > JS page.js > Home

```
1 import Image from "next/image";
2
3 export default function Home() {
4   return (
5     <div className="container my-5">
6       <Image className="mx-auto" width={100} height={100}
7         src="http://www.menucool.com/slider/prod/image-slider-3.
8           jpg" alt="" />
9     </div>
10   );
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
node + □ ×
at av (C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 123\website\node
dist\compiled\next-server\app-page.runtime.dev.js:35:7809)
at C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 123\website\node
\compiled\next-server\app-page.runtime.dev.js:35:12972
null
[]
```



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- exportPathMap
- generateBuildId
- generateEtags
- headers
- httpAgentOptions
- images
- cacheHandler
- instrumentationHook
- logging
- mdxRs
- onDemandEntries
- optimizePackageImports
- output
- pageExtensions
- Partial Prerendering (experimental)
- poweredByHeader
- productionBrowserSourceMaps

App Router > ... > Optimizing > Images

# Image Optimization

## ► Examples

According to [Web Almanac](#), images account for a huge portion of the typical website's [page weight](#) and can have a sizable impact on your website's [LCP performance](#).

The Next.js Image component extends the HTML `<img>` element with features for automatic image optimization:

- **Size Optimization:** Automatically serve correctly sized images for each device, using modern image formats like WebP and AVIF.
- **Visual Stability:** Prevent [layout shift](#) automatically when images are loading.
- **Faster Page Loads:** Images are only loaded when they enter the viewport using native browser lazy loading, with optional blur-up placeholders.
- **Asset Flexibility:** On-demand image resizing, even for images stored on remote servers

Watch: Learn more about how to use `next/image` → [YouTube \(9 minutes\)](#).

## Usage

```
import Image from 'next/image'
```

On this page

- Usage
- Local Images
- Remote Images
- Domains
- Loaders
- Priority
- Image Sizing
- Styling
- Examples
- Responsive
- Fill Container
- Background Image
- Other Properties
- Configuration
- API Reference

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- headers
- httpAgentOptions
- images
- cacheHandler
- instrumentationHook
- logging
- mdxRs
- onDemandEntries
- optimizePackageImports
- output
- pageExtensions
- Partial Prerendering (experimental)
- poweredByHeader
- productionBrowserSourceMaps

```
1  import Image from 'next/image'
2  import Link from 'next/link'
3
4  const Home = () => {
5    return (
6      <div>
7        <h1>Welcome to your new Next.js app</h1>
8        <Image alt="Next.js logo" height={500} width={500} />
9        <p>This page shows a large Next.js logo. You can edit this page in /app/pages/index.js.</p>
10       <Link href="/about">About</Link>
11     </div>
12   )
13 }
14
15 export default Home
```

To safely allow optimizing images, define a list of supported URL patterns in `next.config.js`. Be as specific as possible to prevent malicious usage. For example, the following configuration will only allow images from a specific AWS S3 bucket:

```
1 module.exports = {
2   images: {
3     remotePatterns: [
4       {
5         protocol: 'https',
6         hostname: 's3.amazonaws.com',
7         port: '',
8         pathname: '/my-bucket/**',
9       },
10     ],
11   },
12 }
```

Learn more about `remotePatterns` configuration. If you want to use relative URLs for the image `src`, use a `Loader`.

## Domains

Sometimes you may want to optimize a remote image, but still use the built-in Next.js Image Optimization API. To do this, leave the `Loader` at its default setting and enter an absolute URL for the Image `src` prop.

To protect your application from malicious users, you must define a list of remote hostnames you intend to use with the `next/image` component.

On this page

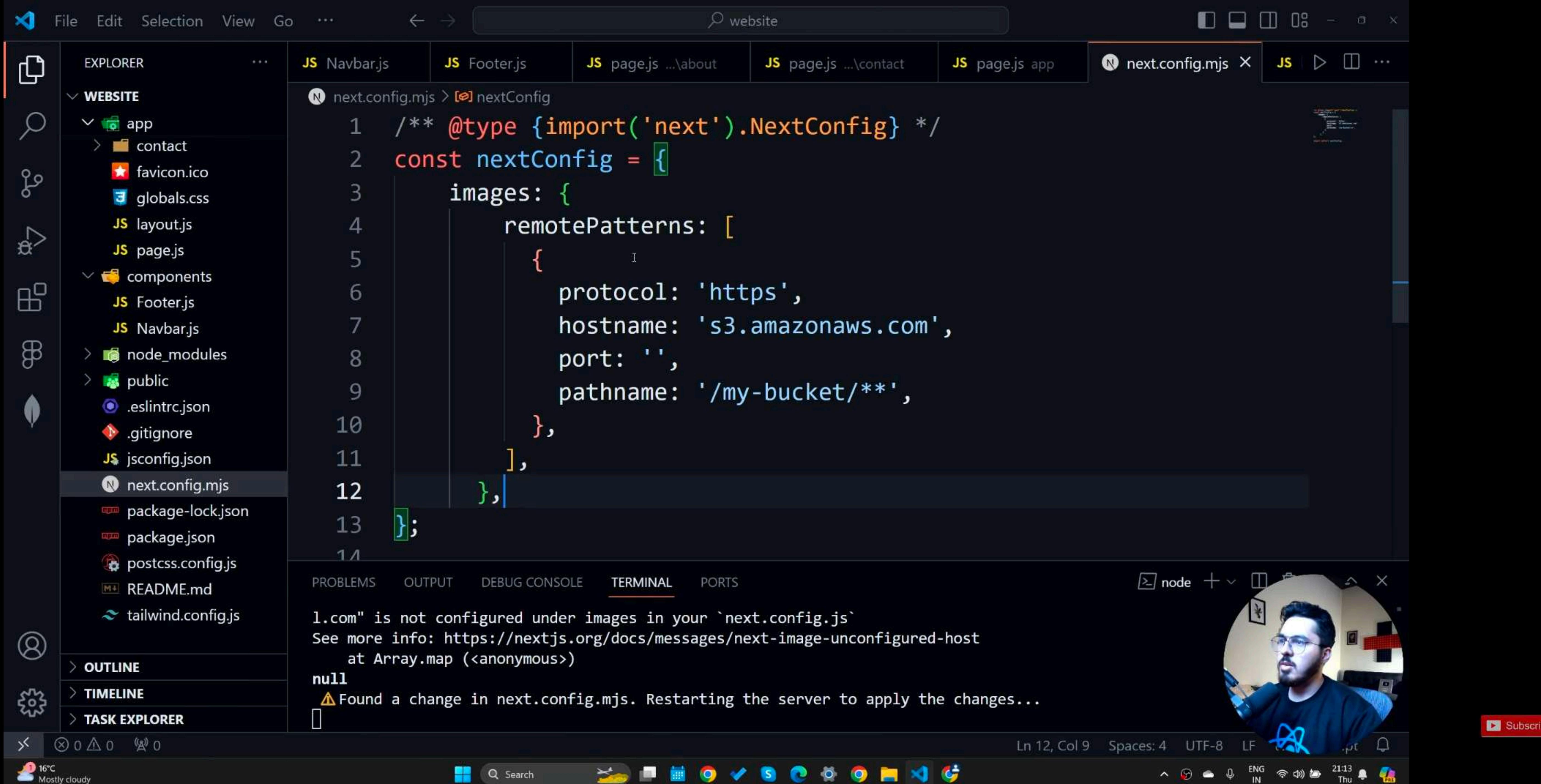
- Usage
- Local Images
- Remote Images
- Domains
- Loaders
- Priority
- Image Sizing
- Styling
- Examples
- Responsive
- Fill Container
- Background Image
- Other Properties
- Configuration
- API Reference

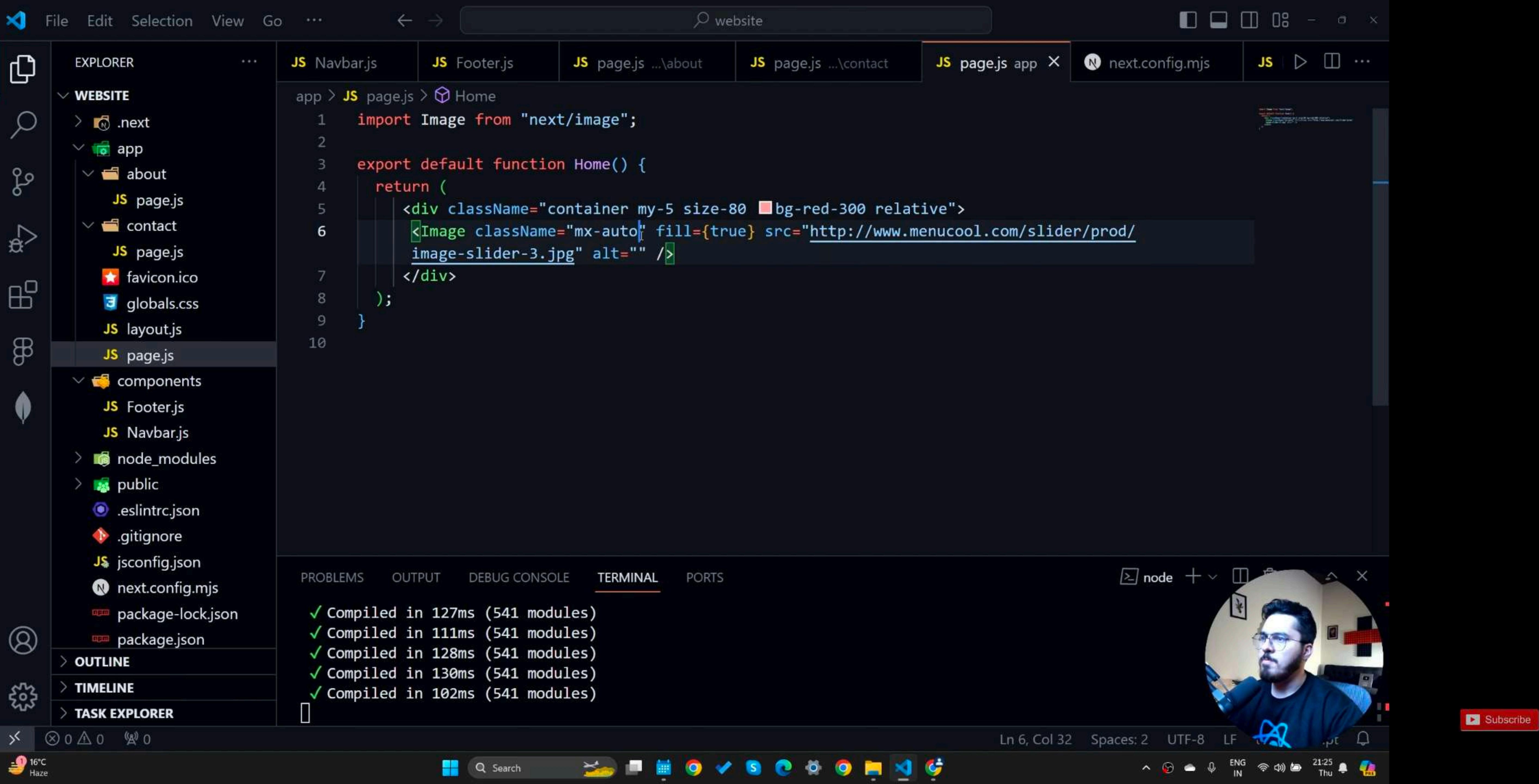
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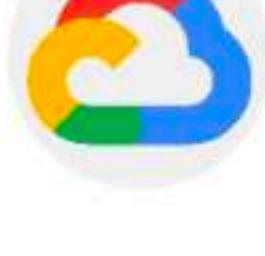
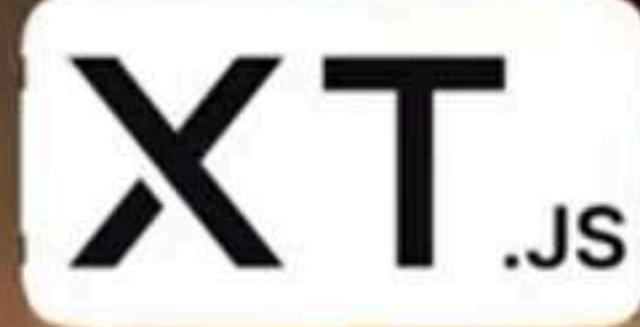
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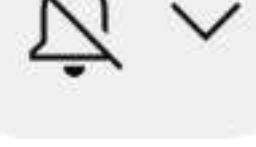
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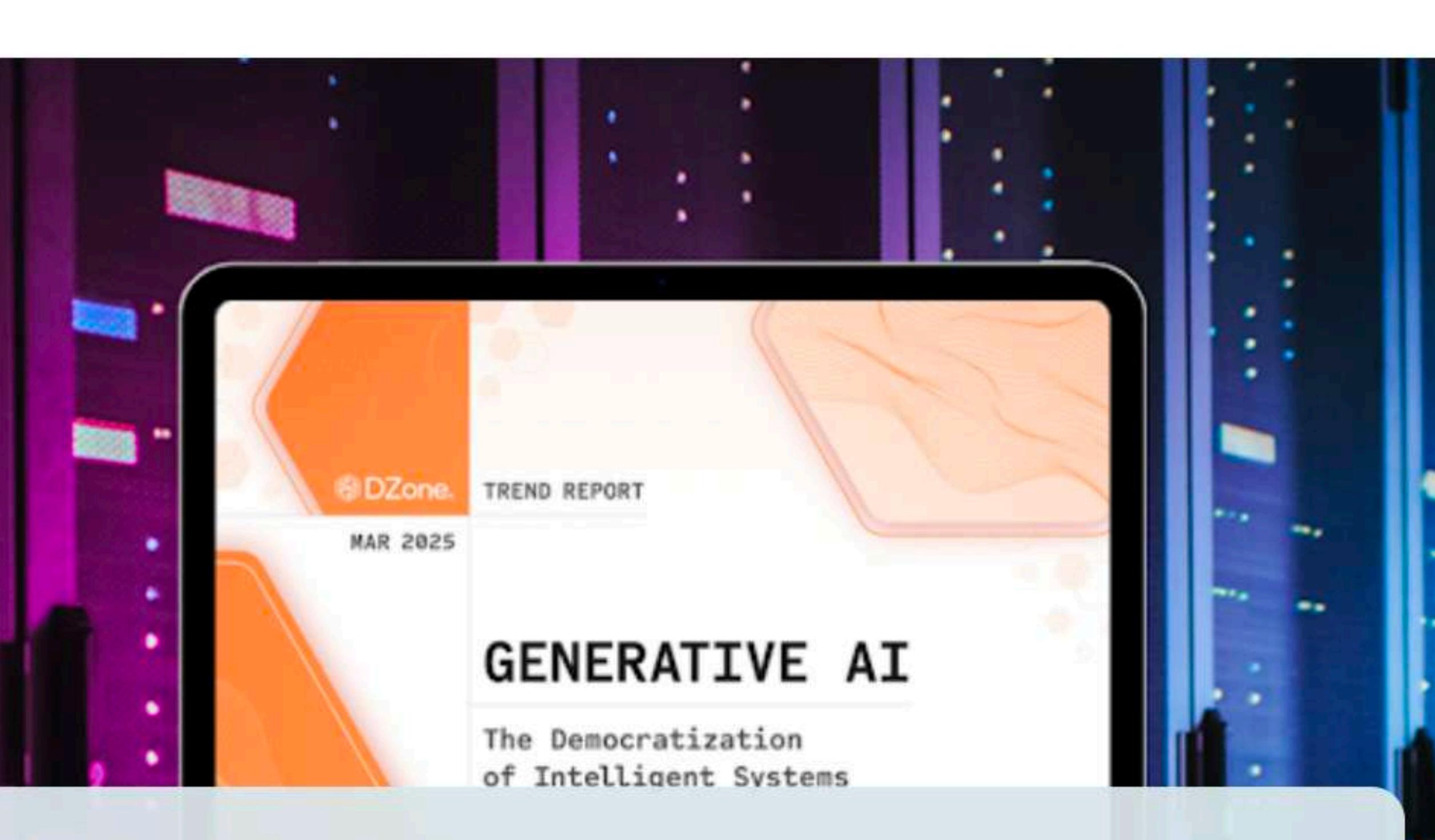


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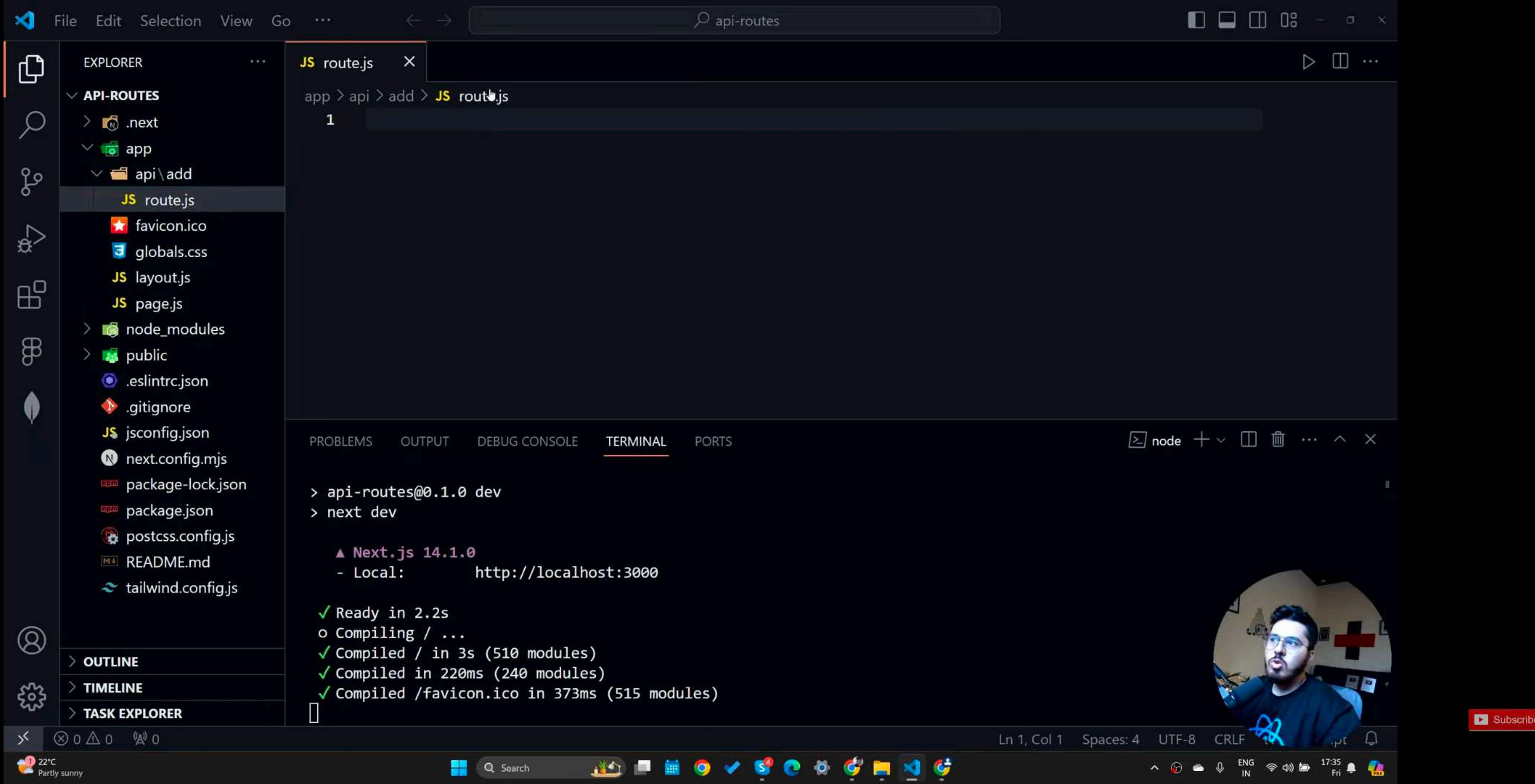


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## HTTP Methods

A **route** file allows you to create custom request handlers for a given route. The following [HTTP methods](#) are supported: `GET`, `POST`, `PUT`, `PATCH`, `DELETE`, `HEAD`, and `OPTIONS`.

```
route.js
JavaScript
1 export async function GET(request) {}
2
3 export async function HEAD(request) {}
4
5 export async function POST(request) {}
6
7 export async function PUT(request) {}
8
9 export async function DELETE(request) {}
10
11 export async function PATCH(request) {}
12
13 // If 'OPTIONS' is not defined, Next.js will automatically implement 'OPTION
14 export async function OPTIONS(request) {}
```

On this page

- [HTTP Methods](#)
- [Parameters](#)
- [request \(optional\)](#)
- [context \(optional\)](#)
- [NextResponse](#)
- [Version History](#)

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Good to know: Route Handlers are only available inside the `app` directory. You do not need to use API Routes (`pages`) and Route Handlers (`app`) together, as Route Handlers should be able to handle all use cases.

## Parameters

**request (optional)**

The `request` object is a [NextRequest](#) object, which is an extension of the Web



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EXPLORER API-ROUTES .next app api\add JS route.js

JS route.js

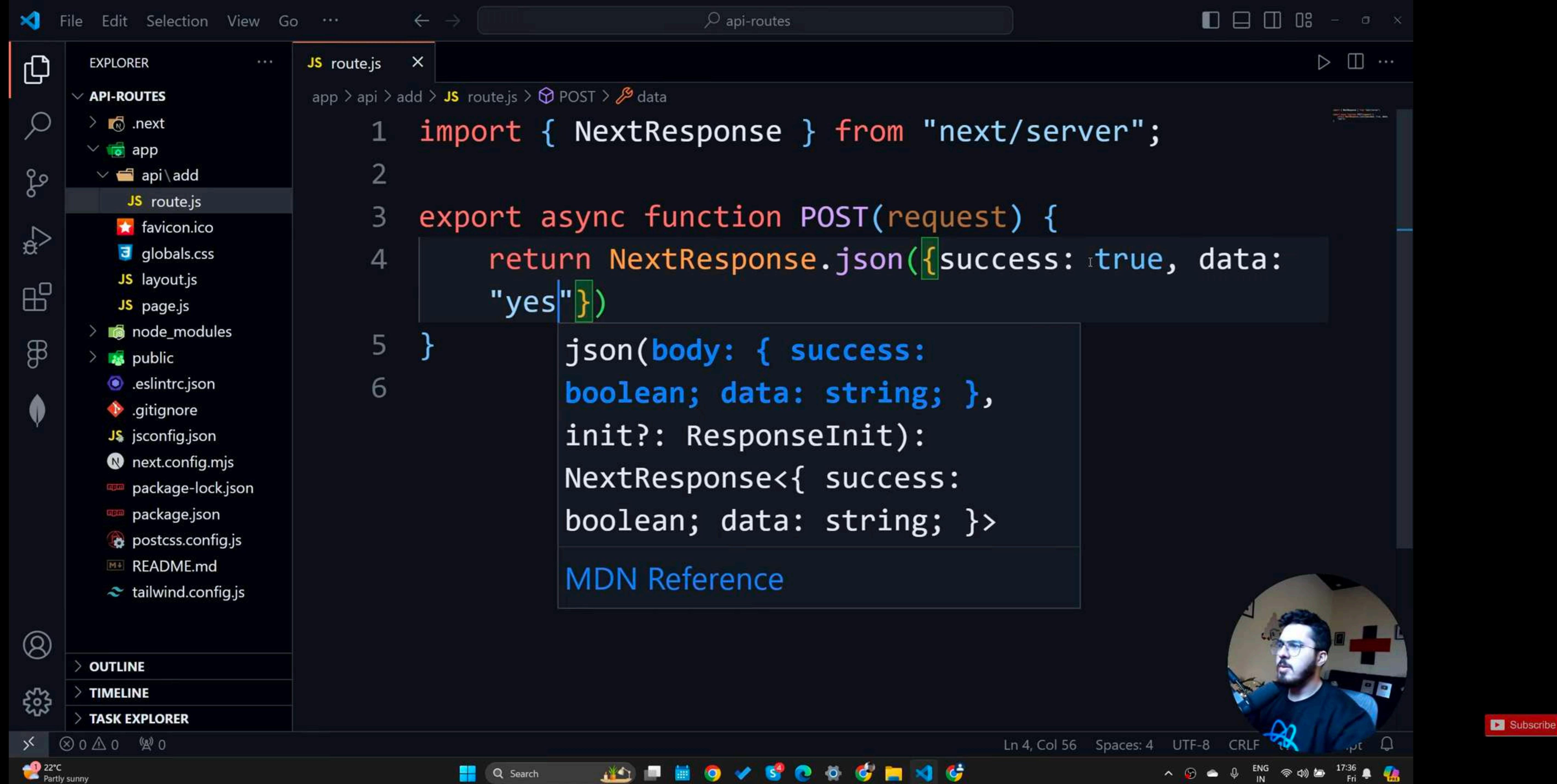
```
app > api > add > JS route.js > ⚡ OPTIONS
1 export async function GET(request) {}
2
3 export async function HEAD(request) {}
4
5 export async function POST(request) {}
6
7 export async function PUT(request) {}
8
9 export async function DELETE(request) {}
10
11 export async function PATCH(request) {}
12
13 // If `OPTIONS` is not defined, Next.js will automatically implement `OPTIONS` and set the appropriate Response `Allow` header depending on the other methods defined in the route handler.
14 export async function OPTIONS(request) {}
```

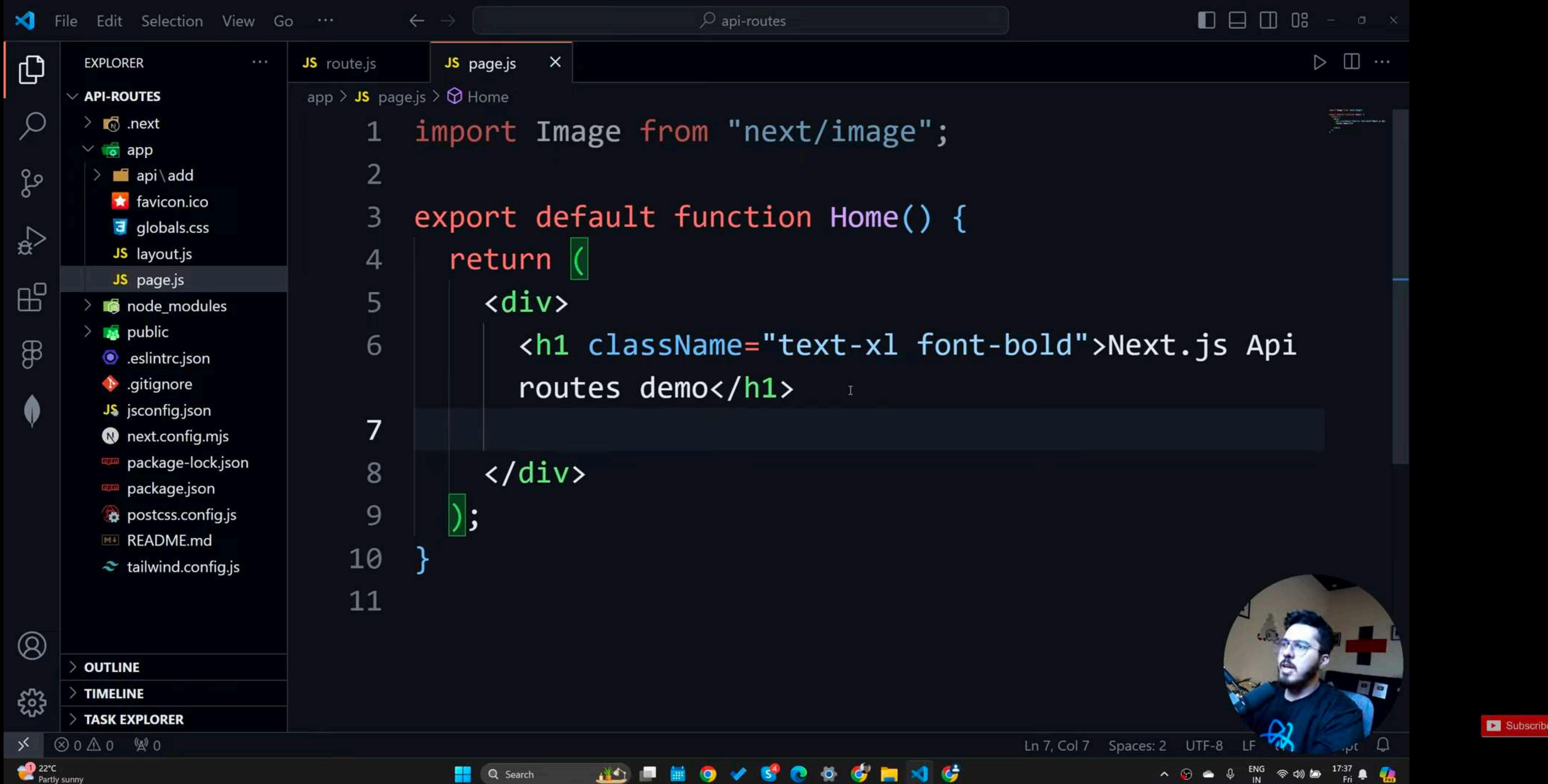
Ln 1, Col 23 Spaces: 4 UTF-8 CRLF .pt

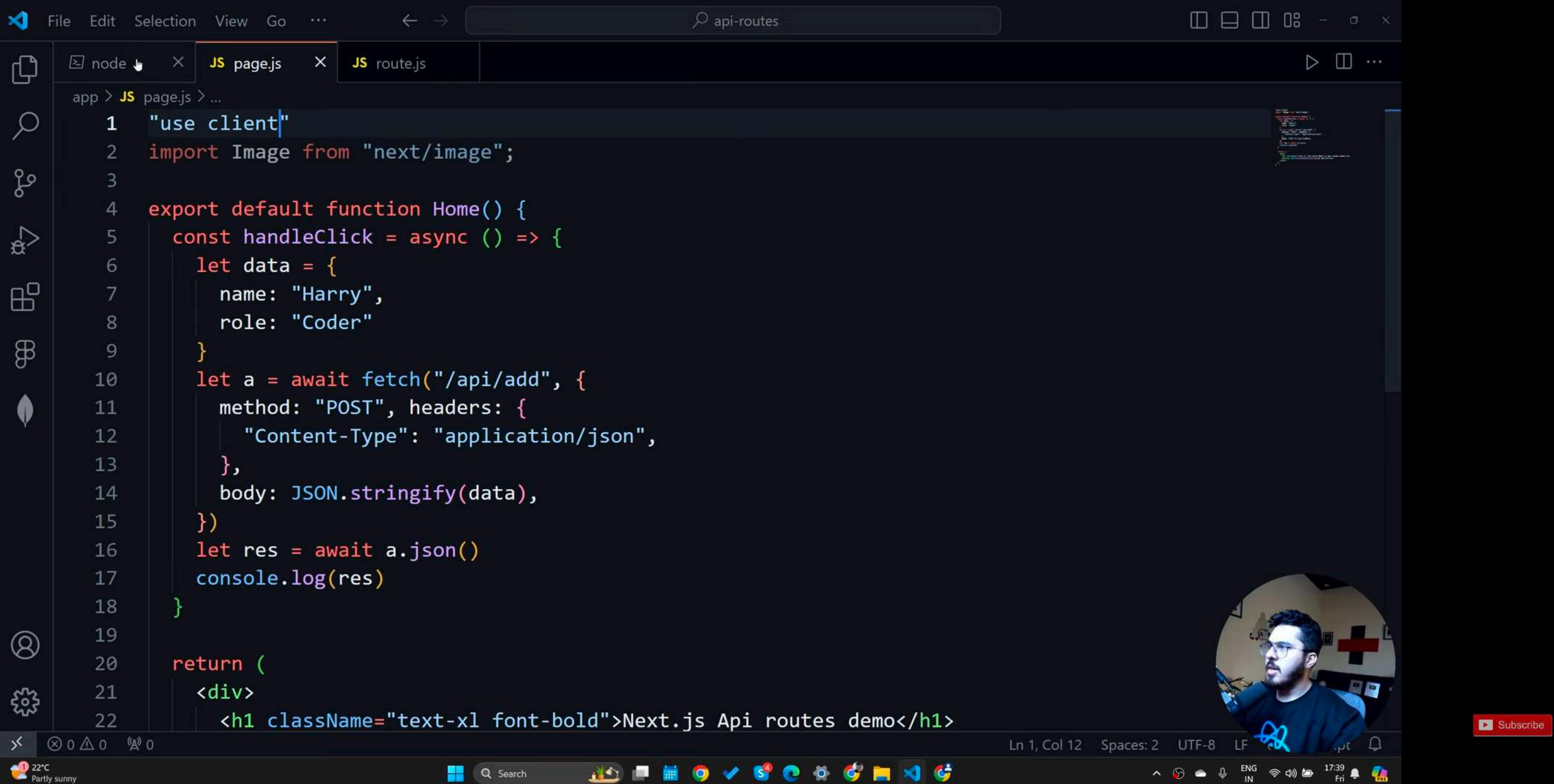
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node page.js route.js

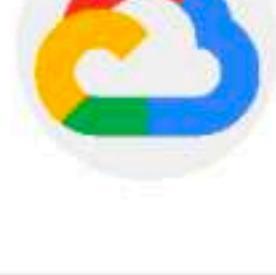
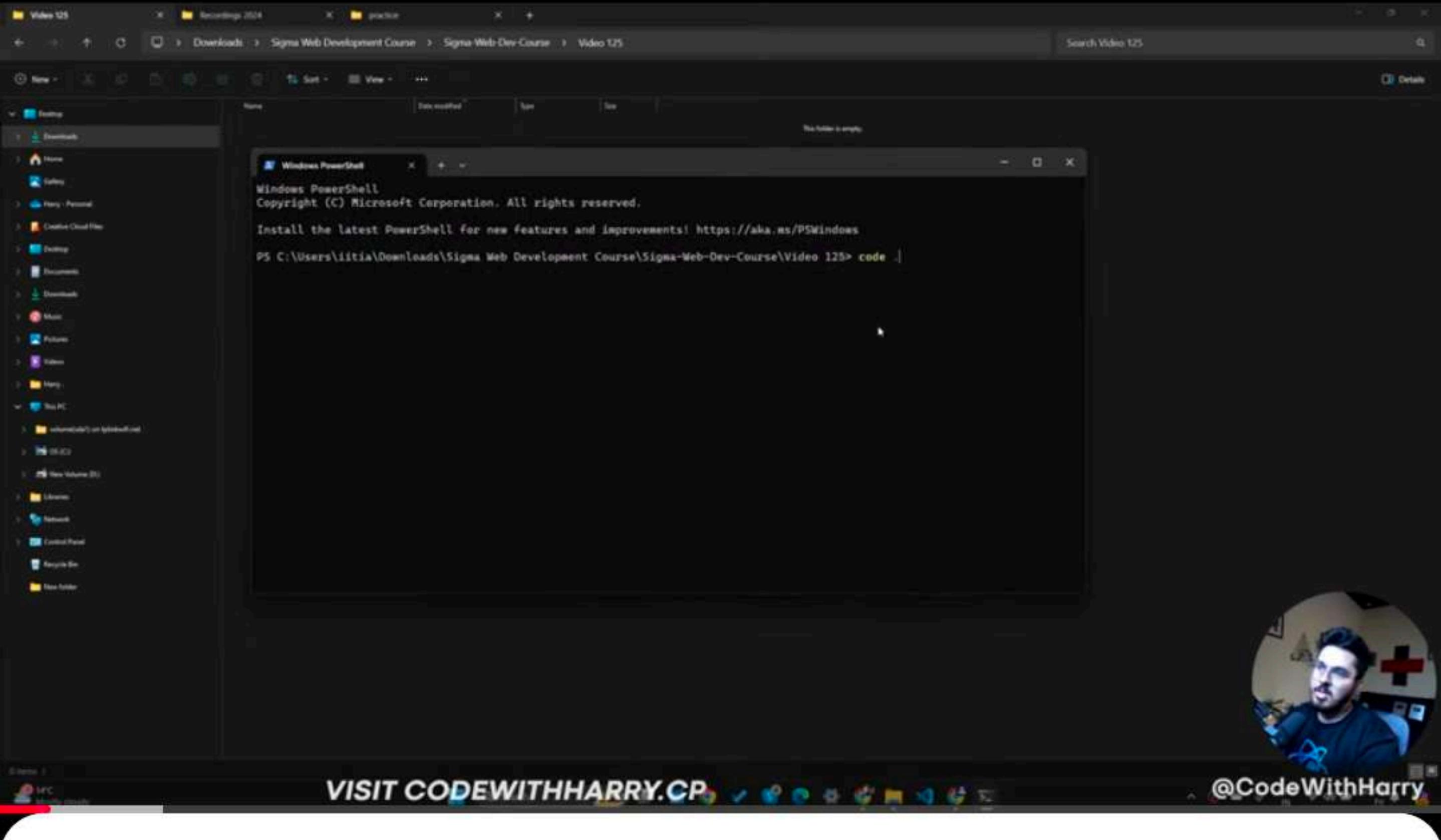
app > api > add > route.js > POST > [data]

```
1 import { NextResponse } from "next/server";
2
3 export async function POST(request) {
4     let data = await request.json()
5     console.log(data)
6     return NextResponse.json({success: true, data: "yes"})
7 }
8
```

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SERVER-ACTIONS

- > .next
- > app
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  - globals.css
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- JS page.js
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- JS jsconfig.json
- N next.config.mjs
- npm package-lock.json
- npm package.json
- postcss.config.js
- M README.md
- tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

JS page.js

app > JS page.js > Home

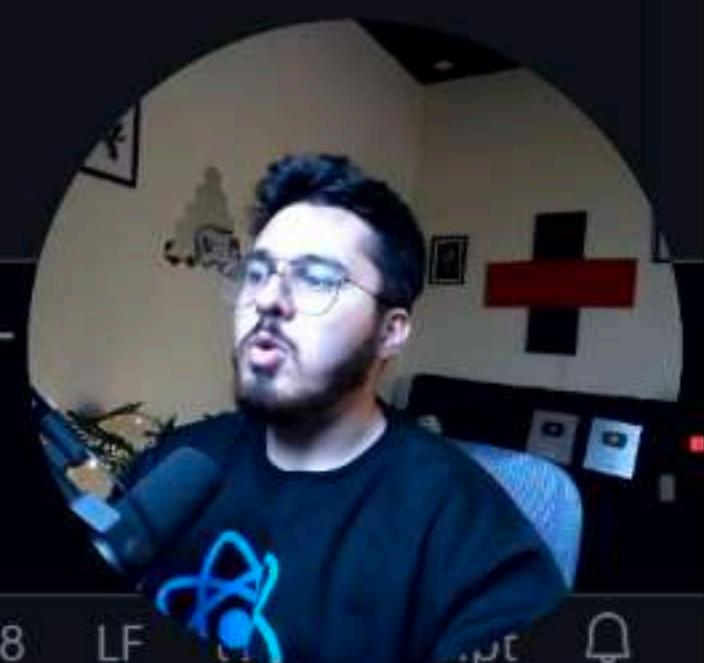
```
1 import Image from "next/image";
2
3 export default function Home() {
4   return (
5     <div className="w-2/3 mx-auto my-12">
6       <form action="">
7         <div>
8           <label htmlFor="name">Name</label>
9           <input name="name" id="name" className="text-black mx-4" type="text" />
10        </div>
11        <div>
12           <label htmlFor="add">Address</label>
13           <input name="add" id="add" className="text-black mx-4" type="text" />
14        </div>
15        <div>
16           <button className="border border-white px-3" type="button">Submit</button>
17        </div>
18      </form>
19    </div>
20  );
21}
22
```

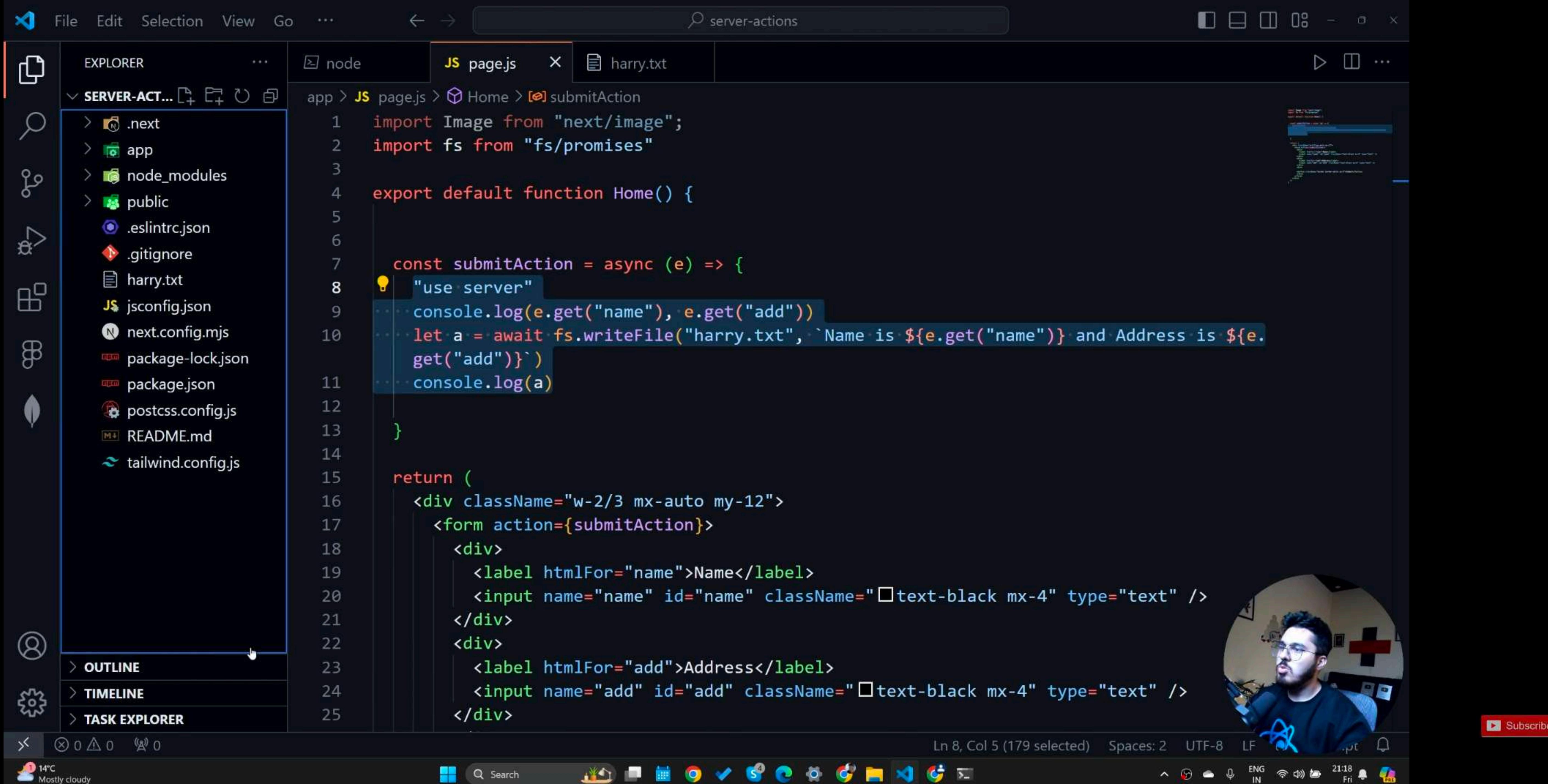
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Compiling / ...

Compiled / in 3s (510 modules)

Ln 19, Col 14 (441 selected) Spaces: 2 UTF-8 LF ⚙





EXPLORER

SERVER-ACTIONS

- > .next
- ✓ actions
  - JS form.js
- ✓ app
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS page.js
- ✓ node\_modules
  - > .bin
  - > @aashutoshrathi
  - > @alloc
  - > @babel
  - > @eslint
  - > @eslint-community
  - > @humanwhocodes
  - > @isaacs
  - > @jridgewell
  - > @next
  - > @nodelib
  - > @pkgjs

OUTLINE

TIMELINE

TASK EXPLORER

node page.js form.js harry.txt

actions > JS form.js > ...

```
1 "use server"
2 import fs from "fs/promises"
3 export const submitAction = async (e) => {
4     console.log(e.get("name"), e.get("add"))
5     let a = await fs.writeFile("harry.txt", `Name is ${e.get("name")}, and Address is ${e.get("add")}`)
6     console.log(a)
7 }
8 }
```

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SERVER-ACT... .next actions app favicon.ico globals.css layout.js page.js node\_modules .bin @aashutoshrathi @alloc @babel @eslint @eslint-community @humanwhocodes @isaacs @jridgewell @next @nodelib @pkgjs

OUTLINE

TIMELINE

TASK EXPLORER

node page.js form.js harry.txt

```
app > JS page.js > Home
1 import { submitAction } from "@/actions/form";
2
3 export default function Home() {
4
5   return (
6     <div className="w-2/3 mx-auto my-12">
7       <form action={submitAction}>
8         <div>
9           <label htmlFor="name">Name</label>
10          <input name="name" id="name" className="border border-black px-4" type="text" />
11        </div>
12        <div>
13          <label htmlFor="add">Address</label>
14          <input name="add" id="add" className="border border-black px-4" type="text" />
15        </div>
16        <div>
17          <button className="border border-white px-3">Submit</button>
18        </div>
19      </form>
20    </div>
21  );
22}
23}
```

Ln 4, Col 1 (1 selected) Spaces: 2 UTF-8 LF ⚡ pt

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SERVER-ACTIONS

- > .next
- ✓ actions
  - JS form.js
- ✓ app
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS page.js
- ✓ node\_modules
  - > .bin
  - > @aashutoshrathi
  - > @alloc
  - > @babel
  - > @eslint
  - > @eslint-community
  - > @humanwhocodes
  - > @isaacs
  - > @jridgewell
  - > @next
  - > @nodelib
  - > @pkgjs

node JS page.js X JS form.js harry.txt

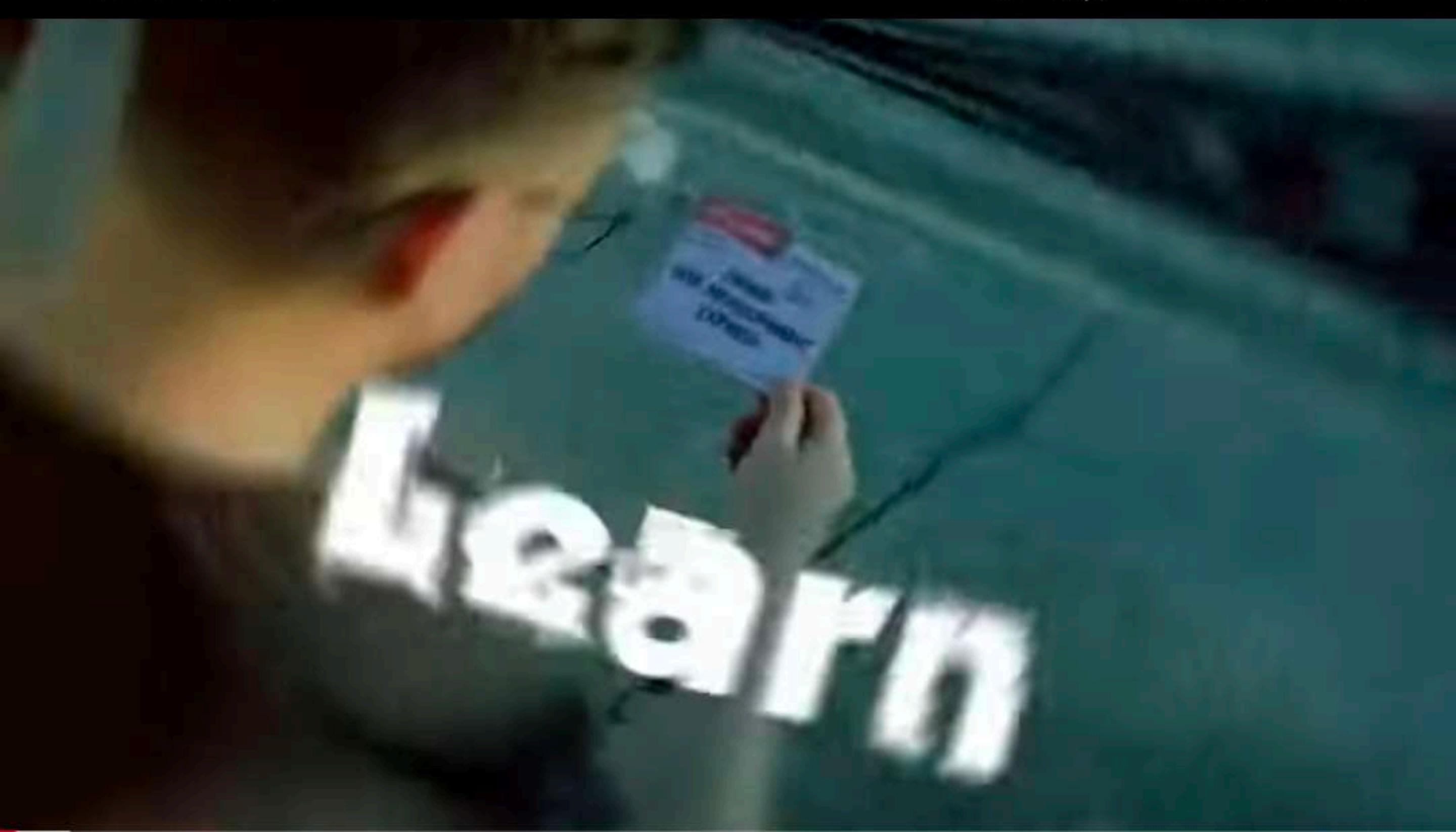
```
app > JS page.js > Home
1 "use client"
2 import { submitAction } from "@/actions/form";
3 import { useRef } from "react";
4
5 export default function Home() {
6   let ref = useRef()
7   return (
8     <div className="w-2/3 mx-auto my-12">
9       <form ref={ref} action={(e)=> [submitAction(e); ref.current.reset()]}>
10      <div>
11        <label htmlFor="name">Name</label>
12        <input name="name" id="name" className="text-black mx-4" type="text" />
13      </div>
14      <div>
15        <label htmlFor="add">Address</label>
16        <input name="add" id="add" className="text-black mx-4" type="text" />
17      </div>
18      <div>
19        <button className="border border-white px-3">Submit</button>
20      </div>
21    </form>
22  </div>
23</div>
24);
25}
26
```



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Using App Router Features available in app

App Router > ... > Routing > Middleware

On this page

- Convention
- Example
- Matching Paths
- Matcher
- Conditional Statements
- NextResponse
- Using Cookies
- Setting Headers
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- Producing a Response
- waitUntil and NextFetchEvent
- Advanced Middleware Flags
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- Project Structure

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- Routing
  - Defining Routes
  - Pages and Layouts
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  - Loading UI and Streaming
  - Error Handling
  - Redirecting
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  - Dynamic Routes
  - Parallel Routes
  - Intercepting Routes
  - Route Handlers
  - Middleware
- Internationalization
- Data Fetching
- Rendering
- Caching
- Styling
- Optimizing
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- Testing

Middleware

Middleware allows you to run code before a request is completed. Then, based on the incoming request, you can modify the response by rewriting, redirecting, modifying the request or response headers, or responding directly.

Middleware runs before cached content and routes are matched. See [Matching Paths](#) for more details.

## Convention

Use the file `middleware.ts` (or `.js`) in the root of your project to define Middleware. For example, at the same level as `pages` or `app`, or inside `src` if applicable.

## Example

```
middleware.ts
```

```
1 import { NextResponse } from 'next/server'
2 import type { NextRequest } from 'next/server'
3
4 // This function can be marked 'async' if using 'await' inside
5 export function middleware(request: NextRequest) {
6   return NextResponse.redirect(new URL('/home', request.url))
7 }
8
9 // See "Matching Paths" below to learn more
10 export const config = {
11   matcher: '/about/:path',
12 }
```

https://nextjs.org/docs/getting-started

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- Internationalization

**Convention**

Use the file `middleware.ts` (or `.js`) in the root of your project to define Middleware. For example, at the same level as `pages` or `app`, or inside `src` if applicable.

**Example**

```
middleware.js
```

```
import { NextResponse } from 'next/server'

// This function can be marked 'async' if using 'await' inside
export function middleware(request) {
  return NextResponse.redirect(new URL('/home', request.url))
}

// See "Matching Paths" below to learn more
export const config = {
  matcher: '/about/:path*',
}
```

**On this page**

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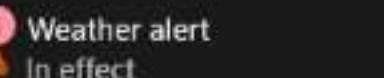
**Matching Paths**

Middleware will be invoked for **every route in your project**. The following is the execution order:

1. `headers` from `next.config.js`
2. `redirects` from `next.config.js`
3. Middleware (`rewrites`, `redirects`, etc.)
4. `beforeFiles` (`rewrites`) from `next.config.js`



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File Edit Selection View Go ... ⏪ ⏩ 🔎 middleware

EXPLORER

MIDDLEWARE

- .next
- app
- node\_modules
- public
- .eslintrc.json
- .gitignore
- jsconfig.json
- middleware.js**
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.js
- README.md
- tailwind.config.js

JS middleware.js X

JS middleware.js > [?] config

```
1 import { NextResponse } from 'next/server'
2
3 // This function can be marked `async` if using `await` inside
4 export function middleware(request) {
5   return NextResponse.redirect(new URL('/home', request.url))
6 }
7
8 // See "Matching Paths" below to learn more
9 export const config = [
10   matcher: '/about/:path*',
11 ]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + □ ✖ ... ^ ×

▲ Next.js 14.1.1

- Local: http://localhost:3000

- ✓ Ready in 2.1s
- Compiling / ...
- ✓ Compiled / in 3s (511 modules)
- ✓ Compiled in 226ms (241 modules)
- Compiling /favicon.ico ...
- ✓ Compiled /favicon.ico in 599ms (518 modules)



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EXPLORER

MIDDLEWARE

- > .next
- > app
  - > about
    - JS page.js
    - favicon.ico
    - globals.css
    - JS layout.js
    - JS page.js
  - > node\_modules
  - > public
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  - .gitignore
  - jsconfig.json
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  - next.config.mjs
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OUTLINE

TIMELINE

TASK EXPLORER

JS middleware.js JS page.js X

app > about > JS page.js > [e] page

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

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

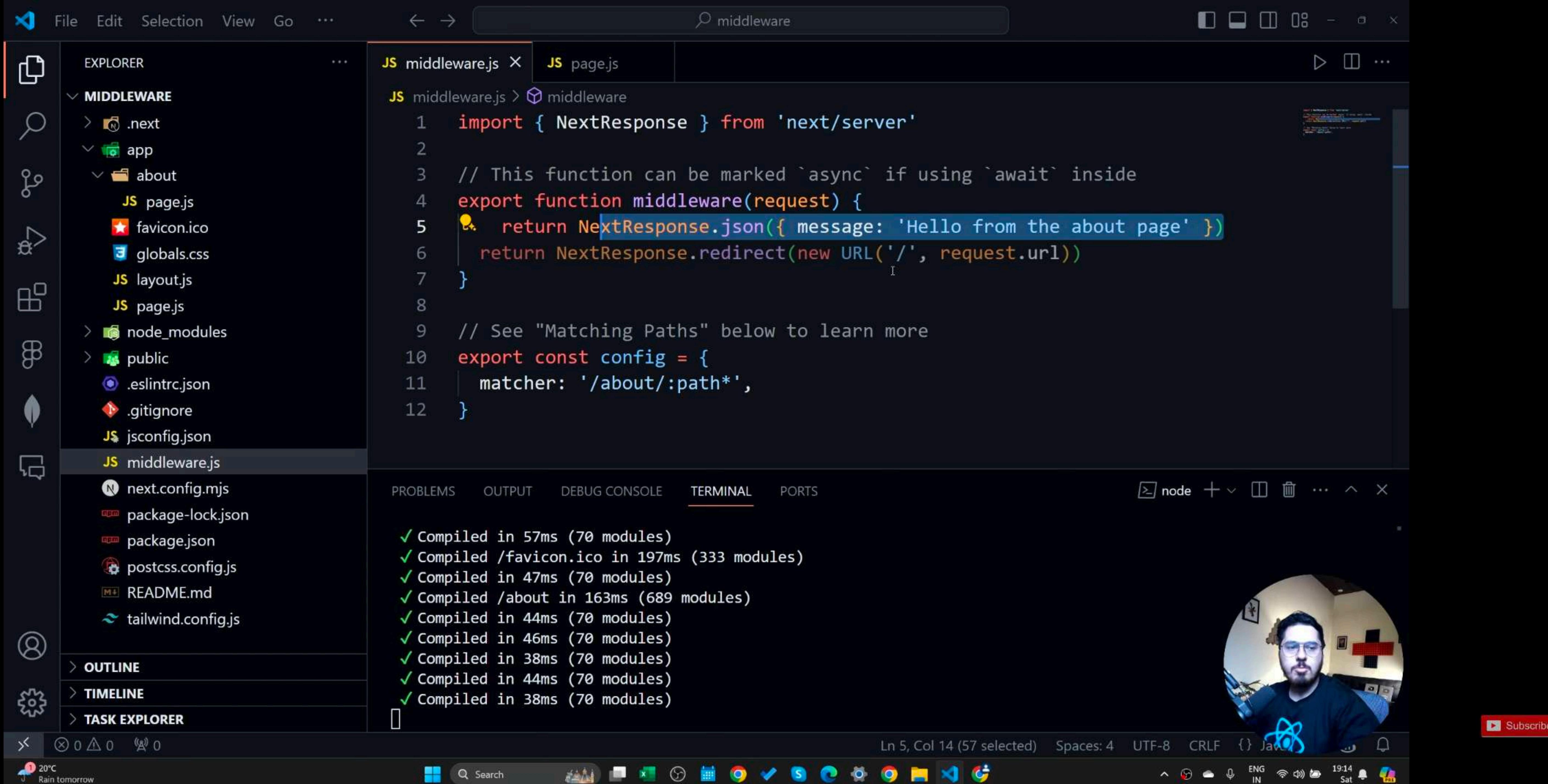
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- ✓ Ready in 2.1s
- o Compiling / ...
- ✓ Compiled / in 3s (511 modules)
- ✓ Compiled in 226ms (241 modules)
- o Compiling /favicon.ico ...
- ✓ Compiled /favicon.ico in 599ms (518 modules)
- ✓ Compiled in 191ms (241 modules)
- ✓ Compiled in 179ms (488 modules)



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Intercepting Routes  
Route Handlers  
Middleware  
Internationalization

Data Fetching

middleware.js

JavaScript

```
1 import { NextResponse } from 'next/server'
2
3 export function middleware(request) {
4   if (request.nextUrl.pathname.startsWith('/about')) {
5     return NextResponse.rewrite(new URL('/about-2', request.url))
6   }
7
8   if (request.nextUrl.pathname.startsWith('/dashboard')) {
9     return NextResponse.rewrite(new URL('/dashboard/user', request.url))
10  }
11}
```

## NextResponse

The `NextResponse` API allows you to:

- `redirect` the incoming request to a different URL
- `rewrite` the response by displaying a given URL
- Set request headers for API Routes, `getServerSideProps`, and `rewrite` destinations
- Set response cookies
- Set response headers

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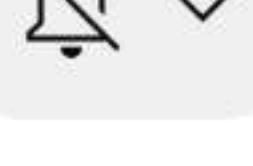
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**NextAuth.js** Documentation Tutorials FAQ Security

Built in email / passwordless / magic link  
Use with any username / password store  
Use with OAuth 1.0 & 2.0 services

Run for Serverless, run anywhere  
Signed, prefixed, server-only cookies  
HTTP POST + CSRF TOKEN VALIDATION

Bring your OWN Database - or none! (MySQL, Postgres, MSSQL, MongoDB...) Choose database sessions or JWT Secure web pages and API routes

JWT with JWS / JWE / JWK Tab syncing, auto-re-validation, keepalives Doesn't rely on client side JavaScript

**npm install next-auth**

## Add authentication in minutes!

**Server** /pages/api/auth/[...nextauth].js

```
import NextAuth from 'next-auth'
import AppleProvider from 'next-auth/providers/apple'
import FacebookProvider from 'next-auth/providers/facebook'
import GoogleProvider from 'next-auth/providers/google'
import EmailProvider from 'next-auth/providers/email'

export default NextAuth({
  providers: [
    // OAuth authentication providers...
    AppleProvider({
      clientId: process.env.APPLE_ID,
      clientSecret: process.env.APPLE_SECRET
    }),
    FacebookProvider({
      clientId: process.env.FACEBOOK_ID,
      clientSecret: process.env.FACEBOOK_SECRET
    }),
    GoogleProvider({
      clientId: process.env.GOOGLE_ID,
      clientSecret: process.env.GOOGLE_SECRET
    }),
    // Passwordless / email sign in
  ]
})
```

**Client (App)** /pages/\_app.jsx

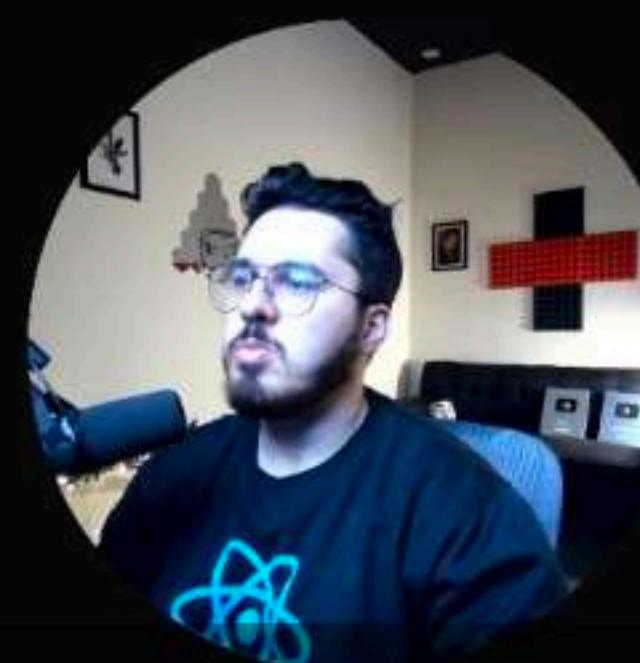
```
import { SessionProvider } from "next-auth/react"

export default function App({ Component, pageProps: { session, ...pageProps } }) {
  return (
    <SessionProvider session={session}>
      <Component {...pageProps}/>
    </SessionProvider>
  )
}
```

**Client (Page)** /pages/index.js

```
import { useSession, signIn, signOut } from "next-auth/react"

export default function Component() {
  const { data: session } = useSession()
  if(session) {
    return <>
      Signed in as {session.user.email} <br/>
    </>
  }
}
```



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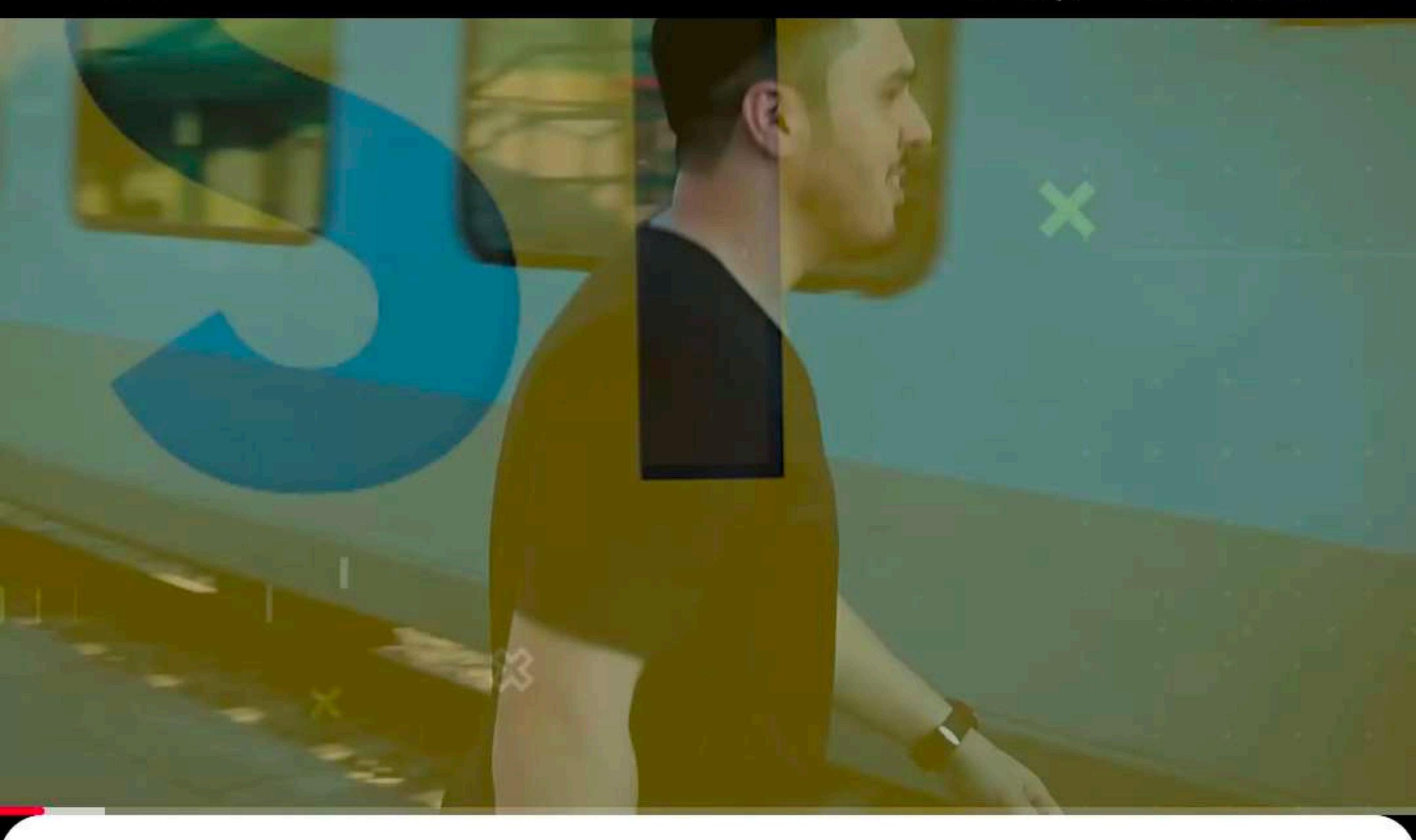
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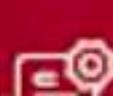
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Using App Router Features available in /app

App Router > ... > Routing > Dynamic Routes

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- Convention
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- Catch-all Segments
- Optional Catch-all Segments
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- Next Steps

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Dynamic Routes

When you don't know the exact segment names ahead of time and want to create routes from dynamic data, you can use Dynamic Segments that are filled in at request time or prerendered at build time.

Convention

A Dynamic Segment can be created by wrapping a folder's name in square brackets: `[folderName]`. For example, `[id]` or `[slug]`.

Dynamic Segments are passed as the `params` prop to `Layout`, `page`, `route`, and `generateMetadata` functions.

Example

For example, a blog could include the following route `app/blog/[slug]/page.js` where `[slug]` is the Dynamic Segment for blog posts.

```
app/blog/[slug]/page.tsx
```

```
1 export default function Page({ params }: { params: { slug: string } }) {  
2   return <div>My Post: {params.slug}</div>  
3 }
```

Route Example URL params

https://nextjs.org/docs/app/building-your-application/routing/dynamic-routes#generating-static-params

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**Using App Router**  
Features available in /app

**Example**

For example, a blog could include the following route `app/blog/[slug]/page.js`, where `[slug]` is the Dynamic Segment for blog posts.

```
app/blog/[slug]/page.js
```

```
1 export default function Page({ params }) {  
2   return <div>My Post: {params.slug}</div>  
3 }
```

Route Example URL params

|                                      |                      |                            |
|--------------------------------------|----------------------|----------------------------|
| <code>app/blog/[slug]/page.js</code> | <code>/blog/a</code> | <code>{ slug: 'a' }</code> |
| <code>app/blog/[slug]/page.js</code> | <code>/blog/b</code> | <code>{ slug: 'b' }</code> |
| <code>app/blog/[slug]/page.js</code> | <code>/blog/c</code> | <code>{ slug: 'c' }</code> |

See the [generateStaticParams\(\)](#) page to learn how to generate the params for the segment.

Good to know: Dynamic Segments are equivalent to [Dynamic Routes](#) in the `pages` directory.

**Generating Static Params**

The `generateStaticParams` function can be used in combination with dynamic route segments to statically generate routes at build time instead of on-demand at request time.

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DYNAMIC-ROU... ⏪ ⏩ ⏴ ⏵ ⏷

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app

blog

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node\_modules

public

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.gitignore

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next.config.mjs

package-lock.json

package.json

postcss.config.js

README.md

tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

1 import React from 'react'

2

3 const page = () => {

4     return (

5         <div>

6             | All Blogs

7         </div>

8     )

9 }

10

11 export default page

12

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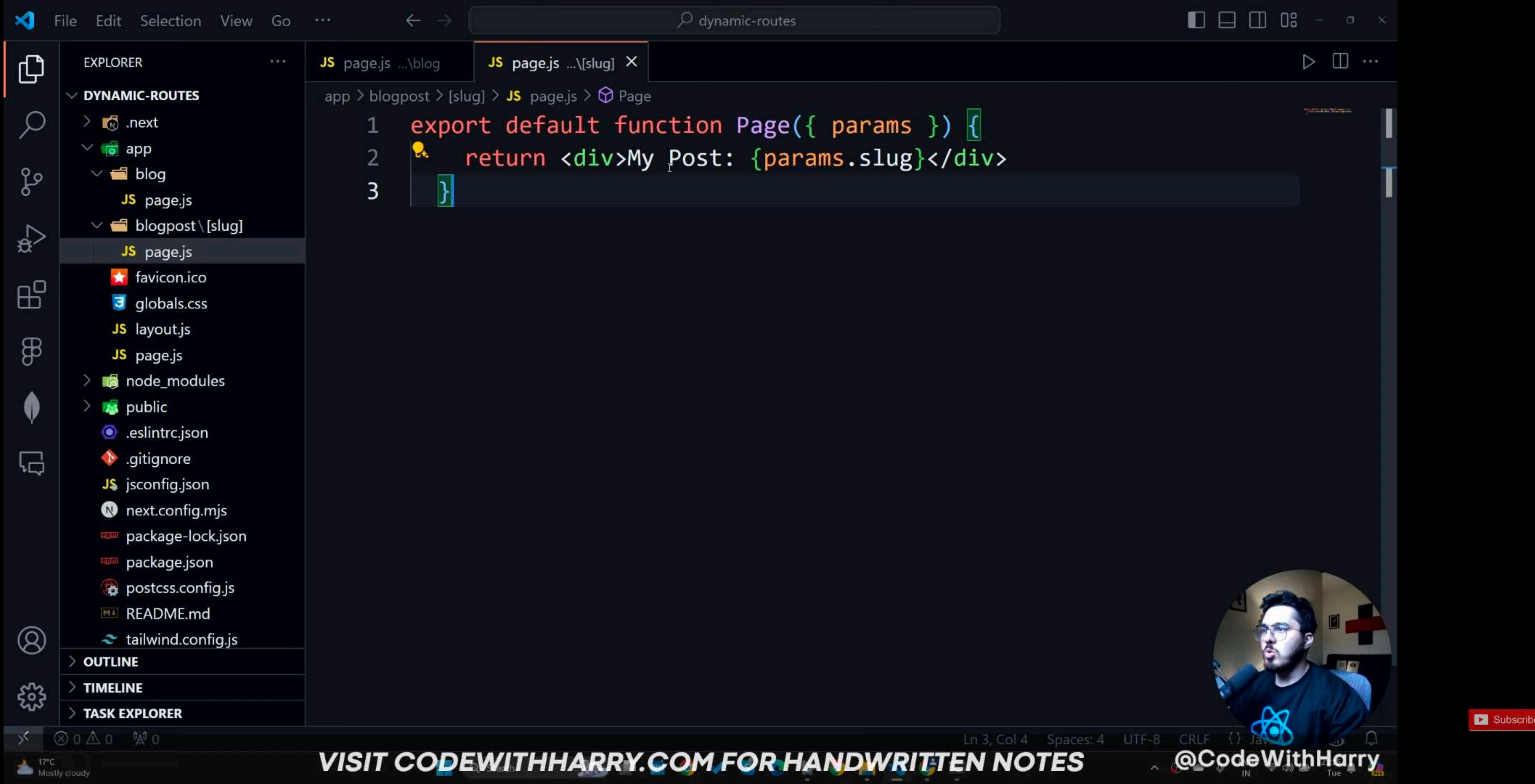
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OUTLINE TIMELINE TASK EXPLORER

JS page.js ...\\blog JS page.js ...\\[slug] X

app > blogpost > [slug] > JS page.js > Page

```
1 export default function Page({ params }) {  
2     // fetch your blog post by its slug  
3     let languages = ["python", "javascript", "java", "c++", "c#"]  
4     if(languages.includes(params.slug)){  
5         return <div>My Post: {params.slug}</div>  
6     }  
7     else{  
8         return <div>Post not found</div>  
9     }  
10    return <div>My Post: {params.slug}</div>  
11 }
```

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nextjs.org/docs/app/api-reference/file-conventions/not-found

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## Using App Router

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## not-found.js

The `not-found` file is used to render UI when the `notFound` function is thrown within a route segment. Along with serving a custom UI, Next.js will return a `200` HTTP status code for streamed responses, and `404` for non-streamed responses.

```
app/blog/not-found.js
```

```
1 import Link from 'next/link'
2
3 export default function NotFound() {
4   return (
5     <div>
6       <h2>Not Found</h2>
7       <p>Could not find requested resource</p>
8       <Link href="/">Return Home</Link>
9     </div>
10  )
11}
```

**Good to know:** In addition to catching expected `notFound()` errors, the root `app/not-found.js` file also handles any unmatched URLs for your whole application. This means users that visit a URL that is not handled by your app will be shown the UI exported by the `app/not-found.js` file.

## Props

`not-found.js` components do not accept any props.

## Data Fetching

On this page

- Props
- Data Fetching
- Version History

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EXPLORER DYNAMIC-ROUTES

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  - > blogpost\[slug]
    - JS page.js
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS not-found.js
  - JS page.js
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- > public
  - .eslintrc.json
  - .gitignore
  - JS jsconfig.json
  - next.config.mjs
  - package-lock.json
  - package.json
  - postcss.config.js
  - README.md

OUTLINE

TIMELINE

TASK EXPLORER

JS page.js ...\\blog JS page.js ...\\[slug] JS not-found.js X

app > JS not-found.js > NotFound

```
1 import Link from 'next/link'  
2  
3 export default function NotFound() {  
4   return (  
5     <div>  
6       <h2>Not Found</h2>  
7       <p>Could not find requested resource</p>  
8       <Link href="/">Return Home</Link>  
9     </div>  
10    )  
11 }
```

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- Handling Errors in Root Layouts
- Handling Server Errors
- Securing Sensitive Error Information

## Next Steps

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### How error.js Works

The screenshot illustrates the flow of an error handling process. On the left, a code editor shows the contents of an `error.js` file:

```
1 'use client' // Error components must be Client Components
2
3 import { useEffect } from 'react'
4
5 export default function Error({ error, reset }) {
6   useEffect(() => {
7     // Log the error to an error reporting service
8     console.error(error)
9   }, [error])
10
11   return (
12     <div>
13       <h2>Something went wrong!</h2>
14       <button
15         onClick={() => reset()}
16         // Attempt to recover by trying to re-render the segment
17         () => reset()
18       >
19         Try again
20       </button>
21     </div>
22   )
23 }
24 }
```

On the right, a preview window shows the resulting user interface. It displays a red "Error..." button with a tooltip "An error occurred: {error.message}" above it. Below the button is a component hierarchy diagram showing the nested components: `<Layout>`, `<Header>`, `<Sidebar>`, and `<ErrorBoundary fallback={ErrorFallback}>`.

A circular profile picture of a man with dark hair, glasses, and a beard, wearing a green t-shirt with a blue logo.

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DYNAMIC-ROUTES

- > .next
- > app
  - > blog
    - JS page.js
  - > blogpost\[slug]
    - JS page.js
  - JS error.js
- favicon.ico
- globals.css
- JS layout.js
- JS not-found.js
- JS page.js
- > node\_modules
- > public
  - .eslintrc.json
  - .gitignore
  - jsconfig.json
  - next.config.mjs
  - package-lock.json
  - package.json
  - postcss.config.js
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

JS page.js ...\\blog JS page.js ...\\[slug] JS not-found.js JS error.js X

```
app > JS error.js > Error
      'use client' // Error components must be Client Components
      import { useEffect } from 'react'
      export default function Error({ error, reset }) {
        useEffect(() => {
          // Log the error to an error reporting service
          console.error(error)
        }, [error])

        return (
          <div>
            <h2>Something went wrong!</h2>
            <button
              onClick={
                // Attempt to recover by trying to re-render the segment
                () => reset()
              }
            >
              Try again
            </button>
          </div>
        )
      }
```



File Edit Selection View Go ... ⏪ ⏩ dynamic-routes ⏹

EXPLORER DYNAMIC-ROU... page.js ...\\blog page.js ...\\[slug] not-found.js error.js page.js ...\\[...val] X

app > about > [...val] > JS page.js > Page

```
1 export default function Page({ params }) {  
2   console.log(params)  
3   // fetch your blog post by its slug  
4   return <div>I am about page check console</div>  
5 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS node + □ ×

```
{ val: [ 'harry' ] }  
✓ Compiled in 147ms (671 modules)  
{ val: [ 'harry' ] }  
✓ Compiled in 170ms (671 modules)  
{ val: [ 'harry' ] }  
{ val: [ 'harry', 'one', 'pyhton' ] }
```

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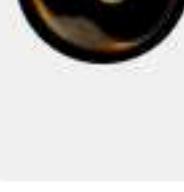


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EXPLORER ... JS page.js X

app > JS page.js > Home

```
1 import Image from "next/image";
2
3 export default function Home() {
4   return (
5     <div className="hompage">
6       I am homepage
7     </div>
8   );
9 }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 128\layouts> npm run dev

```
> layouts@0.1.0 dev
> next dev

  ▲ Next.js 14.1.0
  - Local:      http://localhost:3000
```

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LAYOUTS

- > .next
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  - globals.css
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- .eslintrc.json
- .gitignore
- JS jsconfig.json
- N next.config.mjs
- npm package-lock.json
- npm package.json
- postcss.config.js
- M README.md
- tailwind.config.js

OUTLINE

TIMELINE

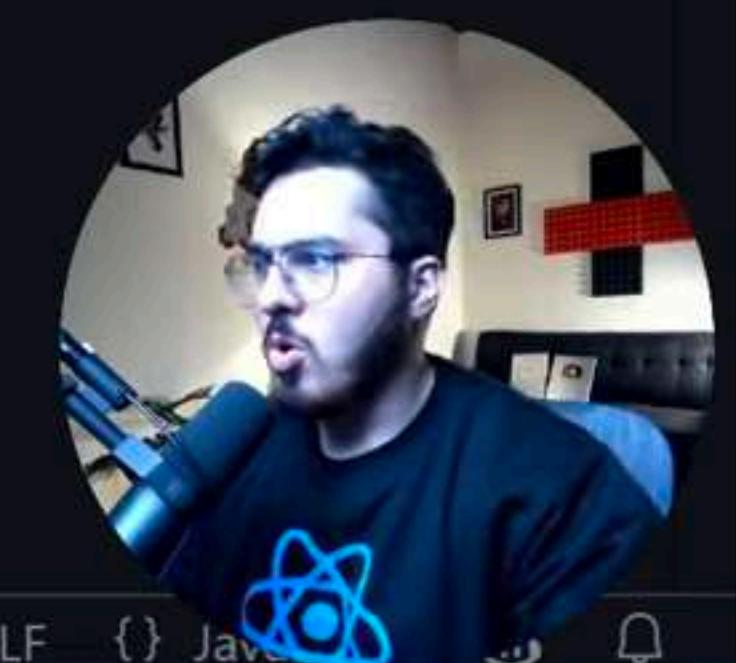
TASK EXPLORER

X 0 ▲ 0 ⌂ 0

components > JS Navbar.js > [e] Navbar

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

Ln 6, Col 13 Spaces: 4 UTF-8 CRLF {} Java



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EXPLORER

LAYOUTS

- > .next
- < app
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS page.js
- < components
  - JS Footer.js
  - JS Navbar.js
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- > public
- .eslintrc.json
- .gitignore
- JS jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.js
- README.md
- tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

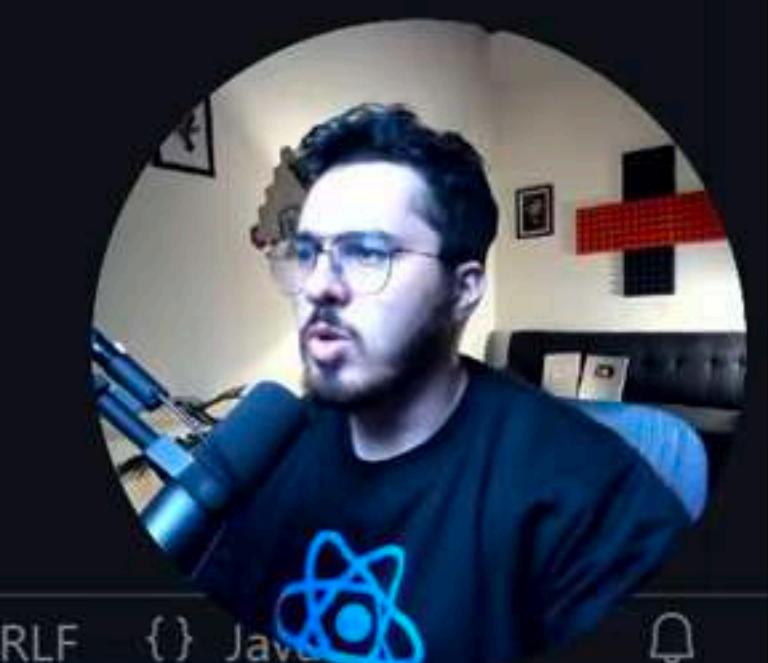
×

0 0 0 0

components > JS Footer.js > [?] Footer

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

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LAYOUTS

- > .next
- > app
  - favicon.ico
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- tailwind.config.js

OUTLINE

TIMELINE

TASK EXPLORER

X ⊗ 0 ⚠ 0 ⚡ 0

20°C Mostly cloudy

JS page.js JS layout.js X JS Navbar.js JS Footer.js

app > JS layout.js > ...

```
1 import { Inter } from "next/font/google";
2 import "./globals.css";
3 import Navbar from "@/components/Navbar";
4 import Footer from "@/components/Footer";
```

5

```
6 const inter = Inter({ subsets: ["latin"] });
```

7

```
8 export const metadata = {
9   title: "Facebook - Connect with friends and the world around you",
10  description: "Facebook is a social utility that connects people with
friends and others who work, study and live around them. People use
Facebook to keep up with friends, upload an unlimited number of
photos, post links and videos, and learn more about the people they
meet.",
```

11};

12

```
13 export default function RootLayout({ children }) {
14  return (
15    <html lang="en">
16      <body className={inter.className}>
17        {children}
18      </body>
```

Ln 4, Col 14 Spaces: 2 UTF-8 LF {} Java



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EXPLORER

...

✓ LAYOUTS

> .next

✓ app

★ favicon.ico

globals.css

JS layout.js

JS page.js

✓ components

JS Footer.js

JS Navbar.js

> node\_modules

> public

.eslintrc.json

.gitignore

JS jsconfig.json

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package-lock.json

package.json

postcss.config.js

README.md

tailwind.config.js

> OUTLINE

> TIMELINE

> TASK EXPLORER

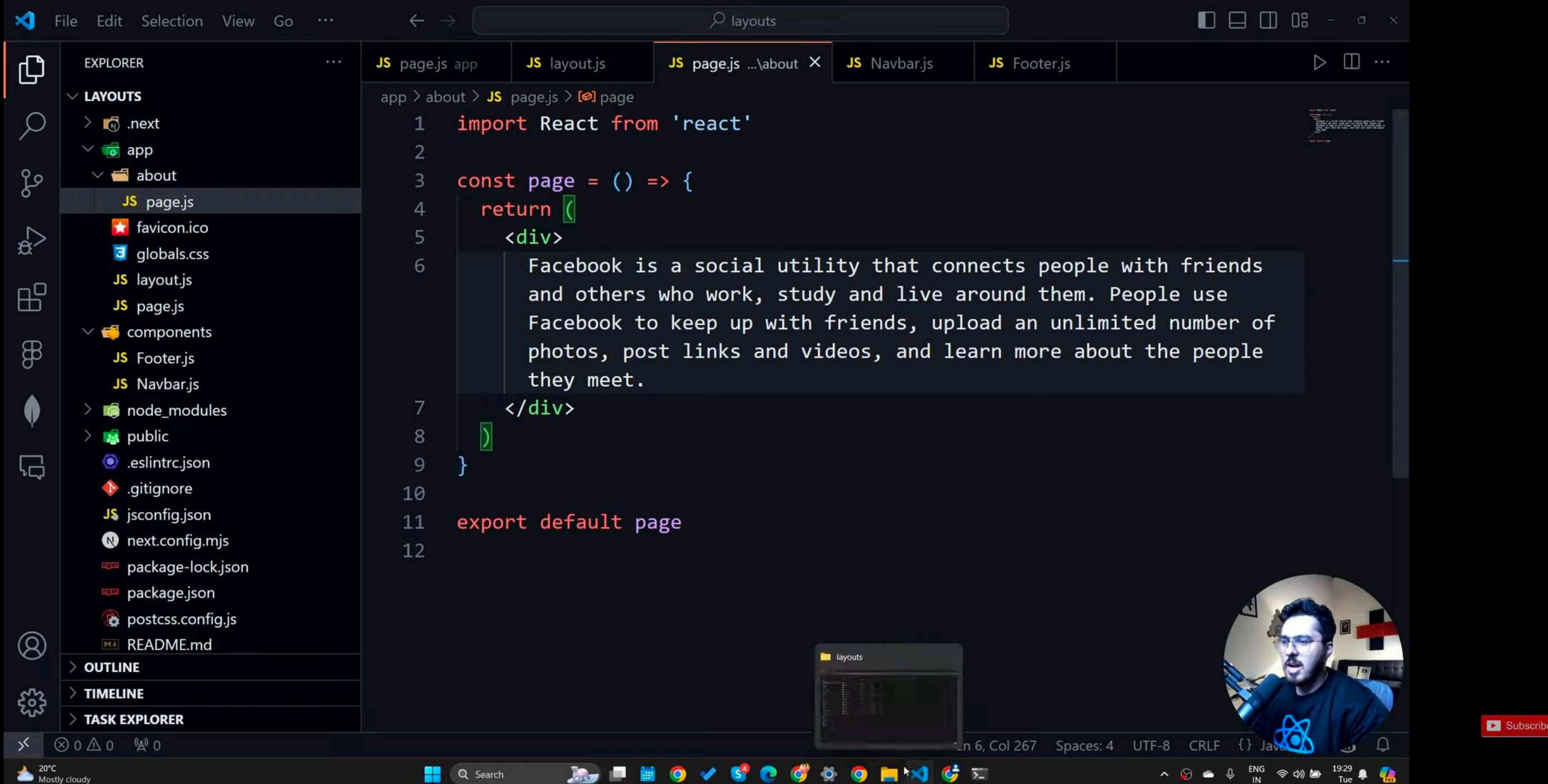
JS page.js JS layout.js X JS Navbar.js JS Footer.js

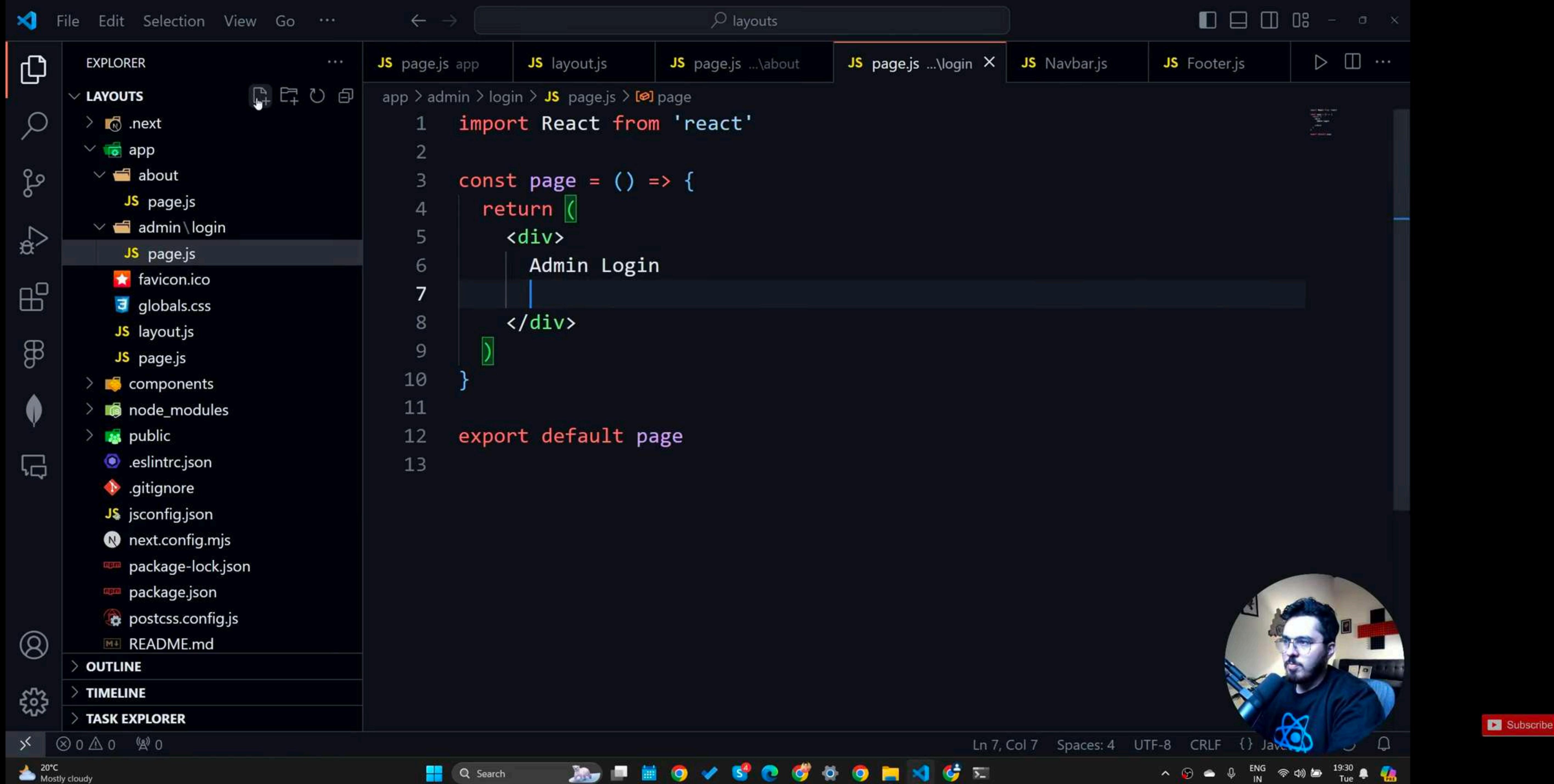
app > JS layout.js > RootLayout

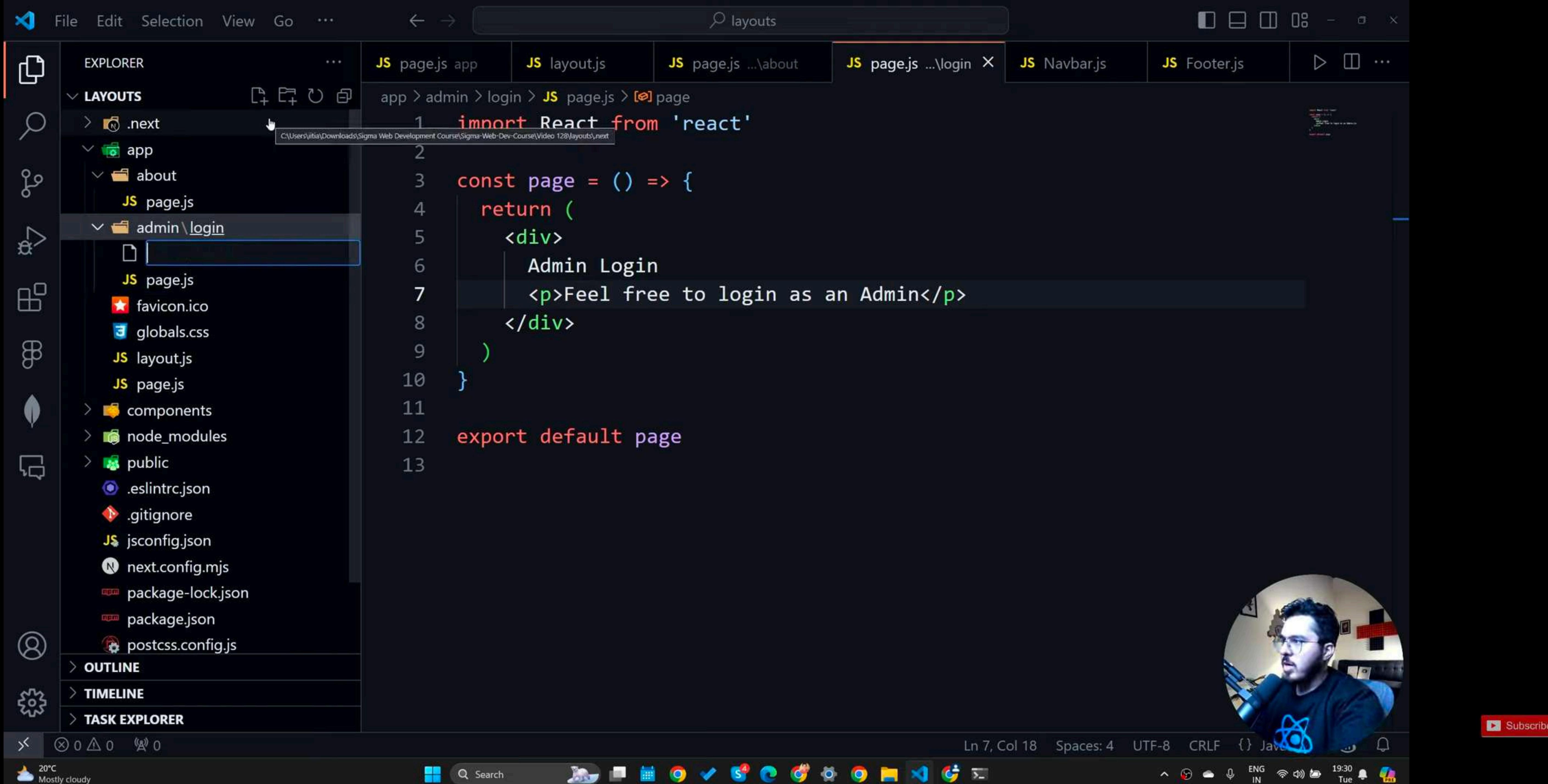
```
8 export const metadata = {
 9   title: "Facebook - Connect with friends and the world around you",
10   description: "Facebook is a social utility that connects people with
friends and others who work, study and live around them. People use
Facebook to keep up with friends, upload an unlimited number of
photos, post links and videos, and learn more about the people they
meet.",
11 };
12
13 export default function RootLayout({ children }) {
14   return (
15     <html lang="en">
16       <body className={inter.className}>
17         <Navbar />
18         {children}
19         <Footer />
20       </body>
21     </html>
22   );
23 }
24 }
```



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LAYOUTS

- > .next
- < app
  - < about
    - JS page.js
  - < admin
    - JS page.js
  - < comments
    - JS page.js
    - > login
    - < logout
      - JS page.js
    - favicon.ico
    - globals.css
    - JS layout.js
    - JS page.js
  - > components
  - > node\_modules
  - > public
    - .eslintrc.json
    - .gitignore
    - JS jsconfig.json
    - N next.config.mjs

app JS layout.js JS page.js ...\\about JS page.js ...\\login JS page.js ...\\logout JS page.js ...\\comments X

app > admin > comments > JS page.js > [e] Comment

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

Emmet Abbreviation

Comments

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LAYOUTS

- > .next
- > app
  - > about
    - JS page.js
  - > admin
    - > comments
    - > login
    - > logout
    - JS layout.js
  - favicon.ico
  - globals.css
  - JS layout.js
  - JS page.js
- > components
- > node\_modules
- > public
- .eslintrc.json
- .gitignore
- JS jsconfig.json
- N next.config.mjs
- package-lock.json

OUTLINE

TIMELINE

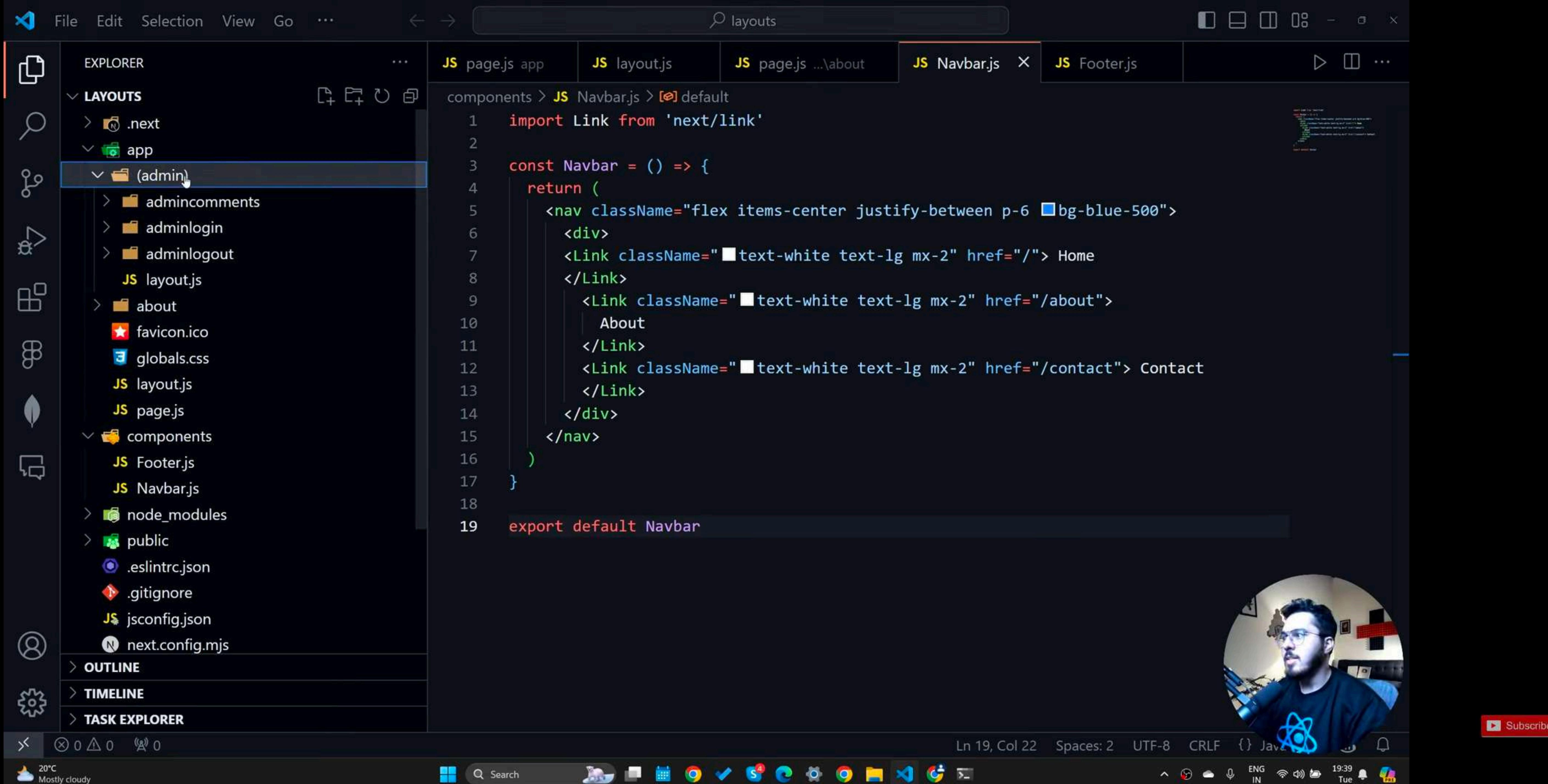
TASK EXPLORER

... e.js ...\\about JS page.js ...\\login JS page.js ...\\logout JS page.js ...\\comments JS layout.js ...\\admin X JS Navba D ⌂ ...

```
app > admin > JS layout.js > AdminLayout
8   title: "Admin: Facebook - Connect with friends and the world around
you",
9   description: "Admin Page: Facebook is a social utility that connects
people with friends and others who work, study and live around them.
People use Facebook to keep up with friends, upload an unlimited
number of photos, post links and videos, and learn more about the
people they meet.",
10  };
11
12  export default function AdminLayout({ children }) {
13    return (
14      <>
15        <Navbar />
16        {children}
17      </>
18    );
19  }
20
```



Ln 15, Col 6 Spaces: 4 UTF-8 CRLF {} Java



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Functions: generateMetadata | Next.js

nextjs.org/docs/app/api-reference/functions/generate-metadata

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## Metadata Object and generateMetadata Options

Using App Router Features available in /app

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- Installation
- Project Structure

**Building Your Application**

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- Rendering
- Caching
- Styling
- Optimizing
- Configuring
- Testing
- Authentication
- Deploying
- Upgrading

**API Reference**

- Components
- File Conventions
- Functions
  - cookies
  - draftMode
  - fetch
  - generateImageMetadata
  - generateMetadata
  - generateSitemaps
  - generateStaticParameters

This page covers all **Config-based Metadata** options with `generateMetadata` and the static metadata object.

```
layout.js | page.js JavaScript
1 // either Static metadata
2 export const metadata = {
3   title: '...',
4 }
5
6 // or Dynamic metadata
7 export async function generateMetadata({ params }) {
8   return {
9     title: '...',
10   }
11 }
```

**Good to know:**

- The `metadata` object and `generateMetadata` function exports are **only supported in Server Components**.
- You cannot export both the `metadata` object and `generateMetadata` function from the same route segment.

### The `metadata` object

To define static metadata, export a `Metadata` object from a `Layout.js` or `page.js` file.

```
layout.js | page.js JavaScript
1 export const metadata = {
2   title: '...',
3   description: '...',
```

On this page

- The metadata object
- generateMetadata function
- Parameters
- Returns
- Metadata Fields
  - title
  - String
  - Template object
  - Default
  - Template
  - Absolute
  - description
  - Basic Fields
  - metadataBase
  - Default value
  - URL Composition
  - openGraph
  - robots
  - icons
  - themeColor
  - manifest
  - twitter
  - viewport
  - verification

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EXPLORER

LAYOUTS

- > .next
- ✓ app
  - ✓ (admin)
    - > admincomments
    - ✓ adminlogin
      - ✓ page.js
      - > adminlogout
      - ✓ layout.js
    - > about
    - ★ favicon.ico
    - globals.css
    - ✓ layout.js
    - ✓ page.js
  - ✓ components
    - ✓ Footer.js
    - ✓ Navbar.js
  - > node\_modules
  - > public
    - .eslintrc.json
    - .gitignore
    - ✓ jsconfig.json

..\\about

JS Navbar.js

JS layout.js ...\\(admin)

JS layout.js ...\\adminlogout

JS page.js ...\\adminlogin X

JS page.js

```
app > (admin) > adminlogin > JS page.js > generateMetadata > title
  5   <div>
  6     Admin Login
  7     <p>Feel free to login as an Admin</p>
  8   </div>
  9
 10 }
 11
 12 export default page
 13
 14
 15 // or Dynamic metadata
 16 export async function generateMetadata({ params }) {
 17   return [
 18     {
 19       title: 'AdminLogin Facebook - Connect with friends and the world around you',
 20     }
 21 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + ×

✓ Compiled /favicon.ico in 66ms (325 modules)

✓ Compiled in 167ms (592 modules)

✓ Compiled in 249ms (559 modules)

✓ Compiled in 218ms (559 modules)

✓ Compiled in 131ms (559 modules)

✓ Compiled in 139ms (559 modules)

✓ Compiled in 124ms (559 modules)

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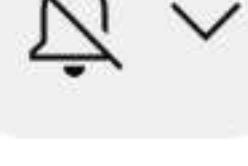
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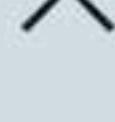
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**Next.js** https://nextjs.org › docs › app › building-your-application

## Routing: Linking and Navigating

Learn how `navigation` works in Next.js, and how to use the `Link Component` and `'useRouter'` hook.

useRouter Linking and Navigating Components Redirect

**GitHub** https://github.com › vercel › next.js › discussions

### [next/navigation] Next 13: useRouter events? #41934

3 Apr 2024 — You can create a custom hook and add a proxy to the `router` object to track the `.push` and `.back` invocation and use it as a trigger for route change start.

62 answers · Top answer: Hey everyone, I appreciate your patience here while we worked on ...

**Stack Overflow** https://stackoverflow.com › questions › whats-the-differ...

### What's the difference between `next/router` and ...

`next/router` is the older routing package, and it is still supported by Next.js. It is a more lightweight package that is designed for basic routing needs.

3 answers · Top answer: The `useRouter` from `next/router` is to be used in the `pages` folder, the ...

How to get URL segments with `next/navigation` in Next.js 28 Sept 2023  
NextJS 14 passing data with `router.push` from `next/navigation` 4 Feb 2024  
react-router `Navigate` component in Nextjs - Stack Overflow 20 Jan 2023  
Detect `navigation` event before it happens nextjs 13 app router ... 13 Oct 2023  
More results from stackoverflow.com

**Next.js** https://nextjs.org › learn-pages-router › basics › navigate...

### Navigate Between Pages | Learn Next.js

Learn how to use the `Link` component to enable client-side `navigation` between pages. Learn about built-in support for code splitting and prefetching ...

Pages in Next.js Client-Side Navigation Link Component Setup

https://nextjs.org/docs/app/building-your-application/routing/linking-and-navigating



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Linking and Navigating

Loading UI and Streaming

Error Handling

Redirecting

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Dynamic Routes

Parallel Routes

Intercepting Routes

Route Handlers

Building Your Application > Routing > Linking and Navigating

# Linking and Navigating

There are four ways to navigate between routes in Next.js:

- Using the `<Link>` Component
- Using the `useRouter` hook (Client Components)
- Using the `redirect` function (Server Components)
- Using the native `History API`

This page will go through how to use each of these options, and dive deeper into how navigation works.

## <Link> Component

`<Link>` is a built-in component that extends the HTML `<a>` tag to provide prefetching and client-side navigation between routes. It is the primary and recommended way to navigate between routes in Next.js.

You can use it by importing it from `next/link`, and passing a `href` prop to the component:

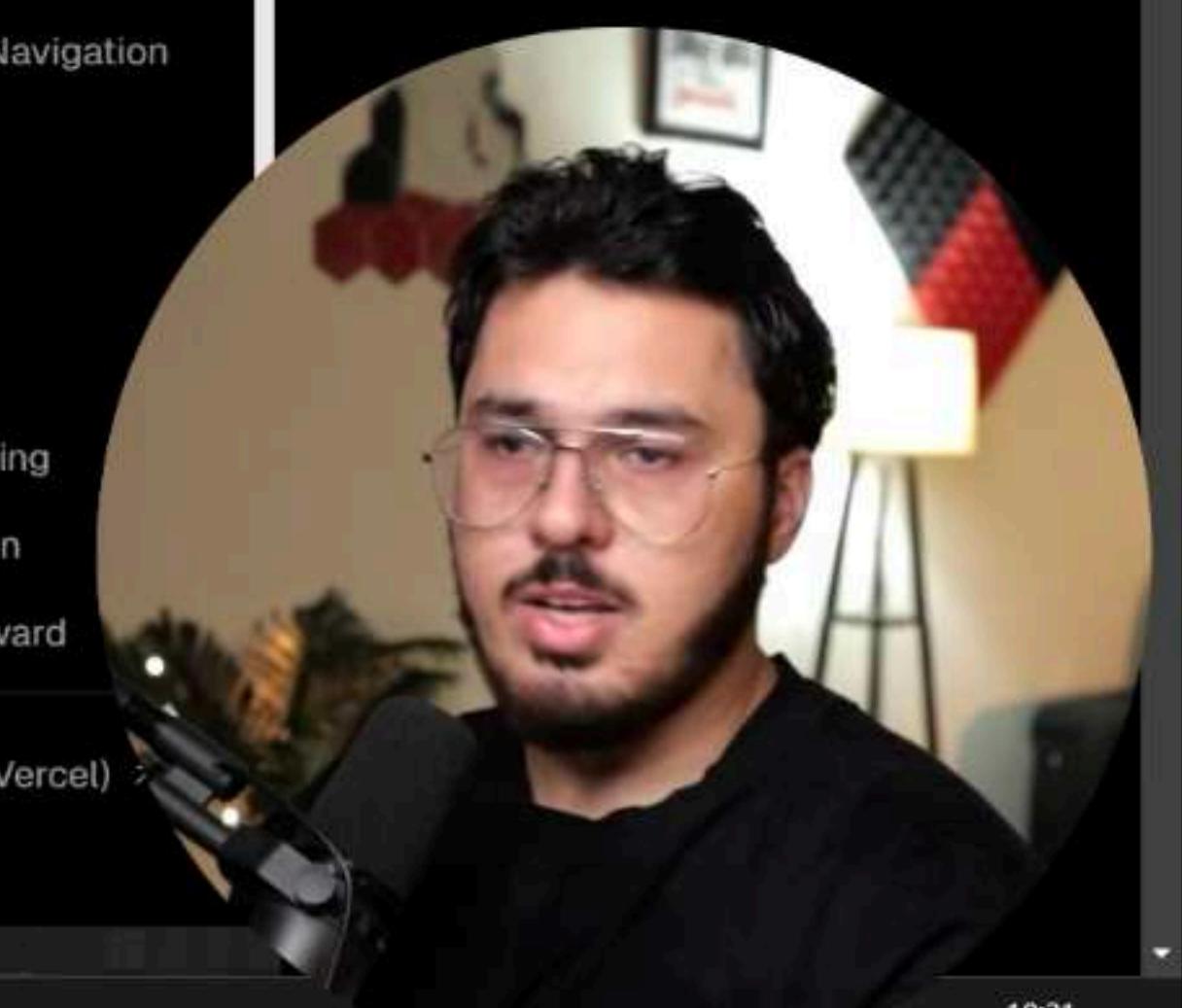
```
app/page.tsx
```

TypeScript

On this page

- <Link> Component
- Examples
- Linking to Dynamic Segments
- Checking Active Links
- Scrolling to an id
- Disabling scroll restoration
- useRouter() hook
- redirect function
- Using the native History API
- window.history.pushState
- window.history.replaceState
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- 1. Code Splitting
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## Checking Active Links

You can use `usePathname()` to determine if a link is active. For example, to add a class to the active link, you can check if the current `pathname` matches the `href` of the link:

```
ts app/components/links.tsx TypeScript
```

```
1 'use client'
2
3 import { usePathname } from 'next/navigation'
4 import Link from 'next/link'
5
6 export function Links() {
7   const pathname = usePathname()
8
9   return (
10    <nav>
11      <ul>
12          <li>
13              <Link className={`link ${pathname === '/' ? 'active' : ''}`} href="/"
14                  Home
15              </Link>
16          </li>
17          <li>
18              <Link
19                  className={`link ${pathname === '/about' ? 'active' : ''}`}
20                  href="/about"
21                  >
22                  About
23              </Link>
24          </li>
25      </ul>
26  )
27}
28}
```

On this page

- <Link> Component
- Examples
- Linking to Dynamic Segments
- Checking Active Links
- Scrolling to an id
- Disabling scroll restoration
- useRouter() hook
- redirect function
- Using the native History API
- window.history.pushState
- window.history.replaceState
- How Routing and Navigation Works
- 1. Code Splitting
- 2. Prefetching
- 3. Caching
- 4. Partial Rendering
- 5. Soft Navigation
- 6. Back and Forward

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19:35 Mon

EXPLORER ... JS page.js JS Navbar.js X JS layout.js

components > JS Navbar.js > ...

```
1 "use client"
2
3 import React from 'react'
4 import { usePathname } from "next/navigation";
5
6 const Navbar = () => {
7
8     const pathname = usePathname()
9     return (
10         <div>Navbar</div>
11     )
12 }
13
14 export default Navbar
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

GET /favicon.ico 200 in 24ms  
⚠ Fast Refresh had to perform a full reload due to a runtime error.  
✓ Compiled in 161ms (796 modules)  
GET / 200 in 198ms  
GET /favicon.ico 200 in 15ms

Backspace

Pieces Settings ⌘ 0 ⌛ 0 ⌂ 0

CIN - NYG Game score

Ln 3, Col 26 Spaces: 4

19:36 Mon



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EXPLORER ... JS page.js app JS Navbar.js JS page.js ...\\about X JS layout.js

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- > .next
- ✓ app
  - ✓ about
    - | JS page.js
  - ✓ fonts
    - ⚠ GeistMonoVF.woff
    - ⚠ GeistVF.woff
  - ★ favicon.ico
  - # globals.css
  - JS layout.js
  - JS page.js
- ✓ components
  - JS Navbar.js
- > node\_modules
- .eslintrc.json
- .gitignore
- { } jsconfig.json
- JS next.config.mjs
- { } package-lock.json
- { } package.json
- JS postcss.config.mjs
- > OUTLINE
- > TIMELINE
- > TASK EXPLORER

app > about > JS page.js > [?] default

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

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
GET /favicon.ico 200 in 15ms
✓ Compiled in 162ms (796 modules)
✓ Compiled in 139ms (446 modules)
✓ Compiled in 251ms (782 modules)
✓ Compiled in 88ms (446 modules)
```

Pieces Settings ⚙️ 0 △ 0 ⚙️ 0

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Using App Router Features available in /app

Using Stable Version v14.2.15

notFound  
permanentRedirect  
redirect  
revalidatePath  
revalidateTag  
unstable\_cache  
unstable\_noStore  
**useParams**  
usePathname  
useReportWebVitals  
useRouter  
useSearchParams  
useSelectedLayoutSegment  
useSelectedLayoutSegments  
userAgent  
next.config.js Options  
CLI  
Edge Runtime

API Reference > Functions > useParams

# useParams

**useParams** is a Client Component hook that lets you read a route's dynamic params filled in by the current URL.

```
ts app/example-client-component.tsx TypeScript
1 'use client'
2
3 import { useParams } from 'next/navigation'
4
5 export default function ExampleClientComponent() {
6   const params = useParams<{ tag: string; item: string }>()
7
8   // Route -> /shop/[tag]/[item]
9   // URL -> /shop/shoes/nike-air-max-97
10  // 'params' -> { tag: 'shoes', item: 'nike-air-max-97' }
11  console.log(params)
12
13  return <></>
14 }
```

## Parameters

```
const params = useParams()
```

On this page

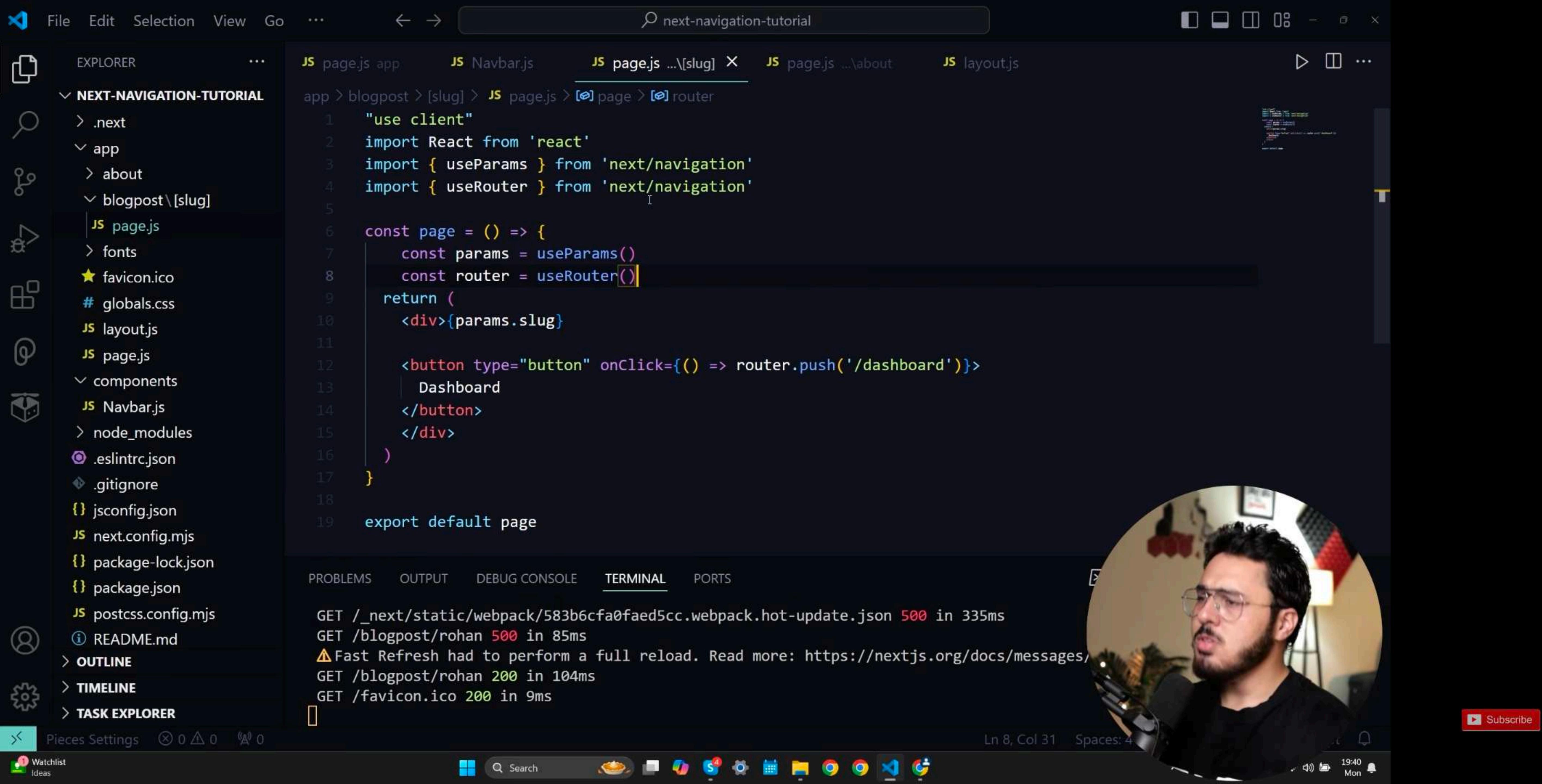
Parameters  
Returns  
Version History

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**Recommendation:** Use the `<Link>` component for navigation unless you have a specific requirement for using `useRouter`.

**Using App Router**  
Features available in /app

**Using Stable Version**  
v14.2.15

notFound  
permanentRedirect  
redirect  
revalidatePath  
revalidateTag  
unstable\_cache  
unstable\_noStore  
useParams  
usePathname  
useReportWebVitals  
**useRouter**  
useSearchParams  
useSelectedLayoutSegment  
useSelectedLayoutSegments  
userAgent  
next.config.js Options  
CLI  
Edge Runtime

`app/example-client-component.js` JavaScript

```
1 'use client'
2
3 import { useRouter } from 'next/navigation'
4
5 export default function Page() {
6   const router = useRouter()
7
8   return (
9     <button type="button" onClick={() => router.push('/dashboard')}>
10      Dashboard
11    </button>
12  )
13}
```

**On this page**

useRouter()  
Migrating from next/router  
Examples  
Router events  
Disabling scroll restoration  
Version History

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Using App Router Features available in /app

Using Stable Version v14.2.15

notFound permanentRedirect redirect revalidatePath revalidateTag unstable\_cache unstable\_noStore useParams usePathname useReportWebVitals useRouter useSearchParams useSelectedLayoutSegment useSelectedLayoutSegments userAgent next.config.js Options CLI Edge Runtime

API Reference > Functions > useSearchParams

# useSearchParams

`useSearchParams` is a **Client Component** hook that lets you read the current URL's **query string**.

`useSearchParams` returns a **read-only** version of the `URLSearchParams` interface.

```
app/dashboard/search-bar.js
```

```
1 'use client'
2
3 import { useSearchParams } from 'next/navigation'
4
5 export default function SearchBar() {
6   const searchParams = useSearchParams()
7
8   const search = searchParams.get('search')
9
10  // URL -> '/dashboard?search=my-project'
11  // 'search' -> 'my-project'
12  return <>Search: {search}</>
13 }
```

## Parameters

On this page

Parameters

Returns

Static Rendering

Behavior

Dynamic Rendering

Server Components

Pages

Layouts

Examples

Updating searchParams

Version History

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  - ✓ blogpost\[slug]
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  - # globals.css
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  - JS page.js
- ✓ components
  - JS Navbar.js
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- JS postcss.config.mjs
- ⓘ README.md

JS page.js app X JS Navbar.js JS page.js ...\[slug] JS page.js ...\[about] JS layout.js

app > JS page.js > Home

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
```

"use client"

```
import Image from "next/image";
import { useSearchParams } from "next/navigation";

export default function Home() {
  const searchparams = useSearchParams()
  return (
    <div>
      Hey this is our page and blog is {searchparams.get('blog')} and utm source is {searchparams.get('utm_source')}
    </div>
  );
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Import trace for requested module:  
./app/page.js  
GET /\_next/static/webpack/583b6cfa0faed5cc webpack.hot-update.json 500 in 246ms  
⚠ Fast Refresh had to perform a full reload. Read more: https://nextjs.org/docs/messages/  
GET /?blog=harry&utm\_source=instagram 500 in 12ms

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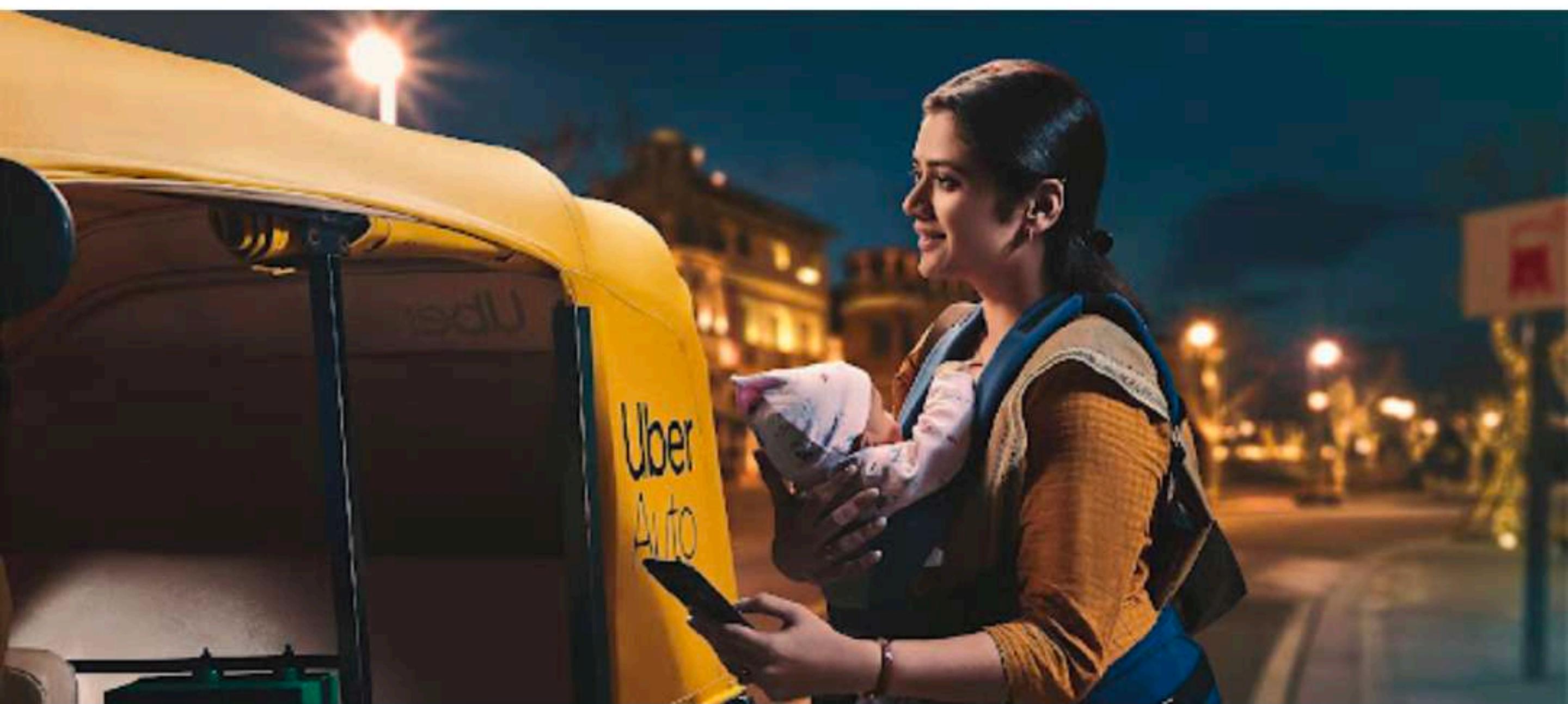
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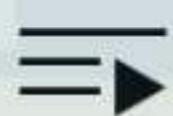
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sida karo