

Sigma Web Development Course - W | next.js framework - Google Search | Next.js by Vercel - The React framework

nextjs.org

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NEXT.js Showcase Docs Blog Analytics Templates Enterprise

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The React Framework for the Web

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.

Get Started Learn Next.js

```
▲ ~ npx create-next-app@latest
```

What's in Next.js? Everything you need to build great products on the web.



14°C Haze

Search

01:45 01:45

ENG IN



A vertical column of icons representing various tools and features available in the IDE.

EXPLORER ...

VIDEO 121

> first

OUTLINE

TIMELINE

TASK EXPLORER

node

```
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:next: sill fetch manifest postcss-value-parser@^4.2.0
```





EXPLORER

...

☒ powershell X

▷ + ⌂ ...

VIDEO 121

> first

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

added 357 packages, and audited 358 packages in 29s

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

found 0 vulnerabilities

Success! Created first at C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 121\first

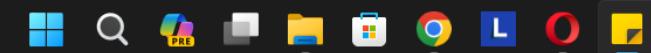
PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 121> code -r first

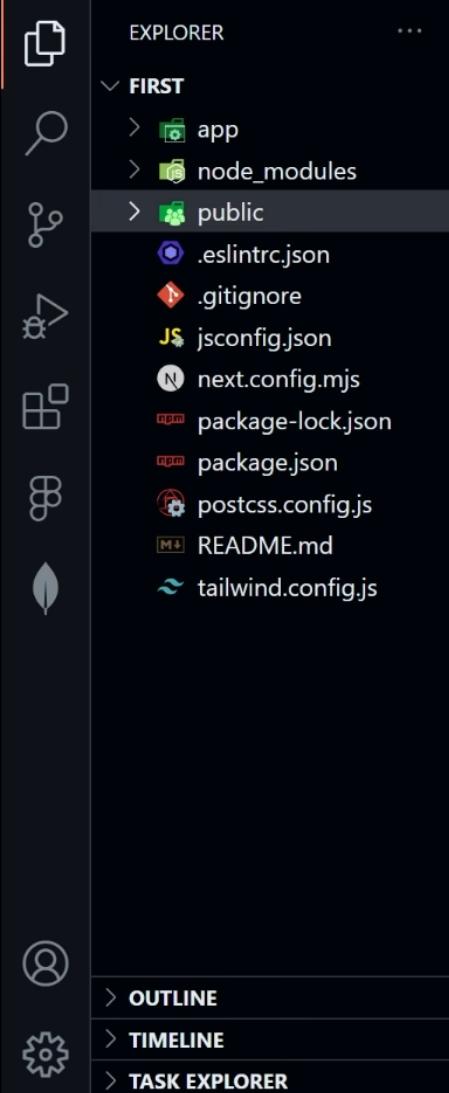
> OUTLINE
> TIMELINE
> TASK EXPLORER



27°C

Sunny





EXPLORER

- ✓ FIRST
 - >  app
 - >  node_modules
 - >  public
 - ➊ .eslintrc.json
 - ➋ .gitignore
 - ➌ jsconfig.json
 - ➍ next.config.mjs
 - ➎ package-lock.json
 - ➏ package.json
 - ➐ postcss.config.js
 - ➑ README.md
 - ➒ tailwind.config.js

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\iitja\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 121\first> **npm run dev**

> first@0.1.0 dev

> next dev

▲ Next.js 14.1.0

- Local: <http://localhost:3000>



Get started by editing app/page.js

By  Vercel

NEXT.js

[Docs →](#)

Find in-depth information about
Next.js features and API.

[Learn →](#)

Learn about Next.js in an
interactive course with quizzes!

[Templates →](#)

Explore starter templates for
Next.js.

[Deploy →](#)

Instantly deploy your
Next.js site to a shareable
URL with Vercel.



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Using App Router Feature available in /app

Using App Router Features available in /app

Using Pages Router Features available in /pages

Building Your Application

- Routing >
- Data Fetching >
- Rendering >
- Caching >
- Styling >
- Optimizing >
- Configuring >
- Testing >
- Authentication >
- Deploying >
- Upgrading >

API Reference

- Components >
- File Conventions >
- Functions >
- next.config.js Options >
- create-next-app >
- Edge Runtime >

Introduction

Welcome to the Next.js documentation!

What is Next.js?

Next.js is a React framework for building full-stack web applications. You use React Components to build user interfaces, and Next.js for additional features and optimizations.

Under the hood, Next.js also abstracts and automatically configures tooling needed for React, like bundling, compiling, and more. This allows you to focus on building your application instead of spending time with configuration.

Whether you're an individual developer or part of a larger team, Next.js can help you build interactive, dynamic, and fast React applications.

Main Features

Some of the main Next.js features include:

Feature	Description
Routing	A file-system based router built on top of Server Components that supports layouts, nested routing, loading states, error handling, and more.
Rendering	Client-side and Server-side Rendering with Client and Server Components. Further

On this page

- What is Next.js?
- Main Features
- How to Use These Docs
- App Router vs Pages Router
- Pre-Requisite Knowledge
- Accessibility
- Join our Community

Edit this page on GitHub ↗



14°C Haze

Search

01:4 ENG IN

Subscribe



A screenshot of a Microsoft Visual Studio Code (VS Code) interface showing a Next.js project named "FIRST".

The Explorer sidebar on the left shows the project structure:

- .next
- app
 - favicon.ico
 - globals.css
 - 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

The "page.js" file in the "app" folder is open in the main editor area. The code is as follows:

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

The line `<div>I am homepage</div>` is highlighted with a green selection bar.

The status bar at the bottom shows:

- Ln 6, Col 25
- Spaces: 2
- UTF-8
- LF
- {} (empty brace)
- 014 (line number)
- Subscribe (button)

System tray icons include: Haze (14°C), Search, Calendar, Chrome, Task View, File Explorer, and Edge.

A circular video overlay in the bottom right corner shows a man with glasses and a beard, wearing a blue shirt with a React logo, speaking.

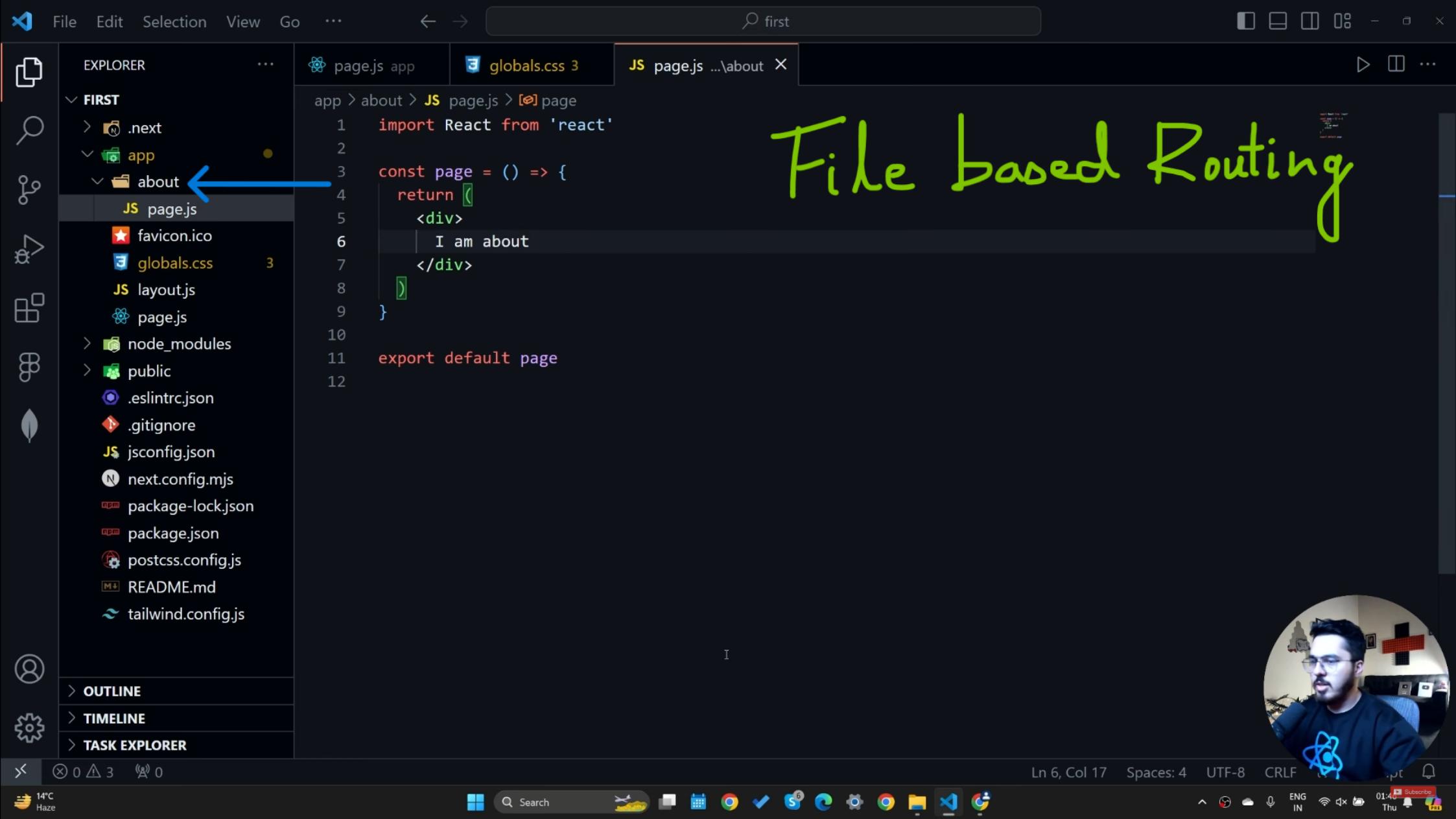
localhost:3000



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I am homepage





localhost:3000/about

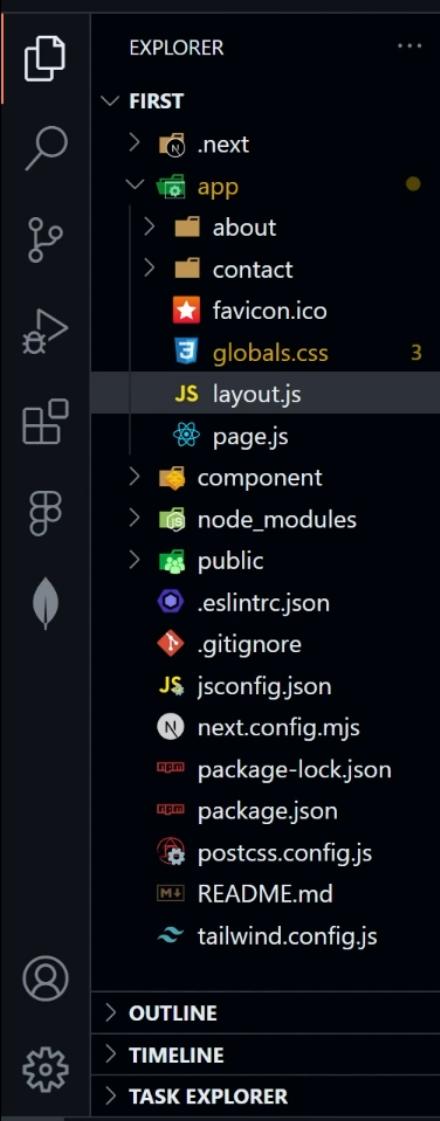


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I am about

/about





The screenshot shows a code editor with several tabs at the top: "page.js app", "globals.css 3", "page.js ...\\about", "layout.js", "page.js ...\\contact", "Navbar.js", and some icons. The "layout.js" tab is active.

The code in "layout.js" is as follows:

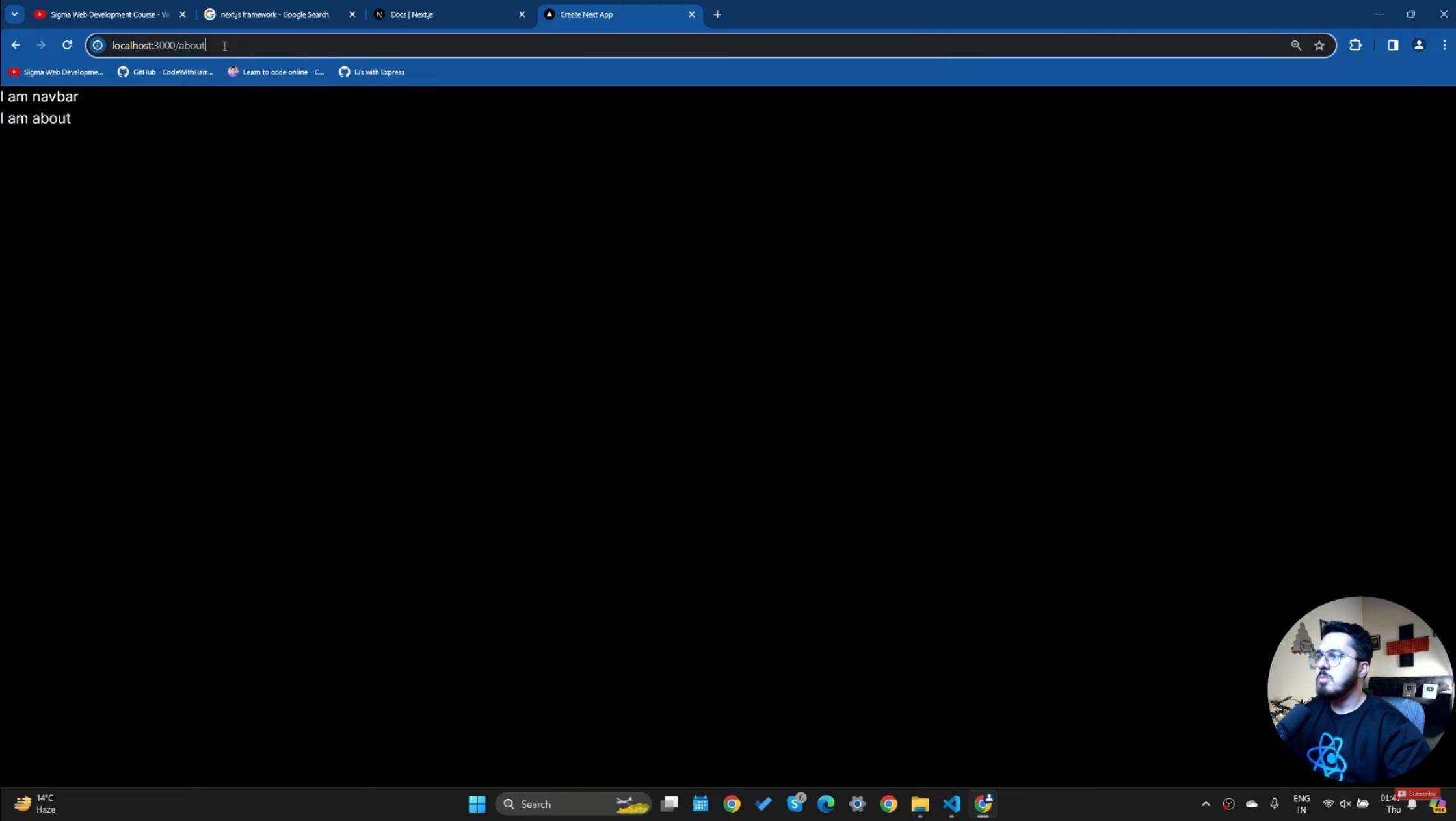
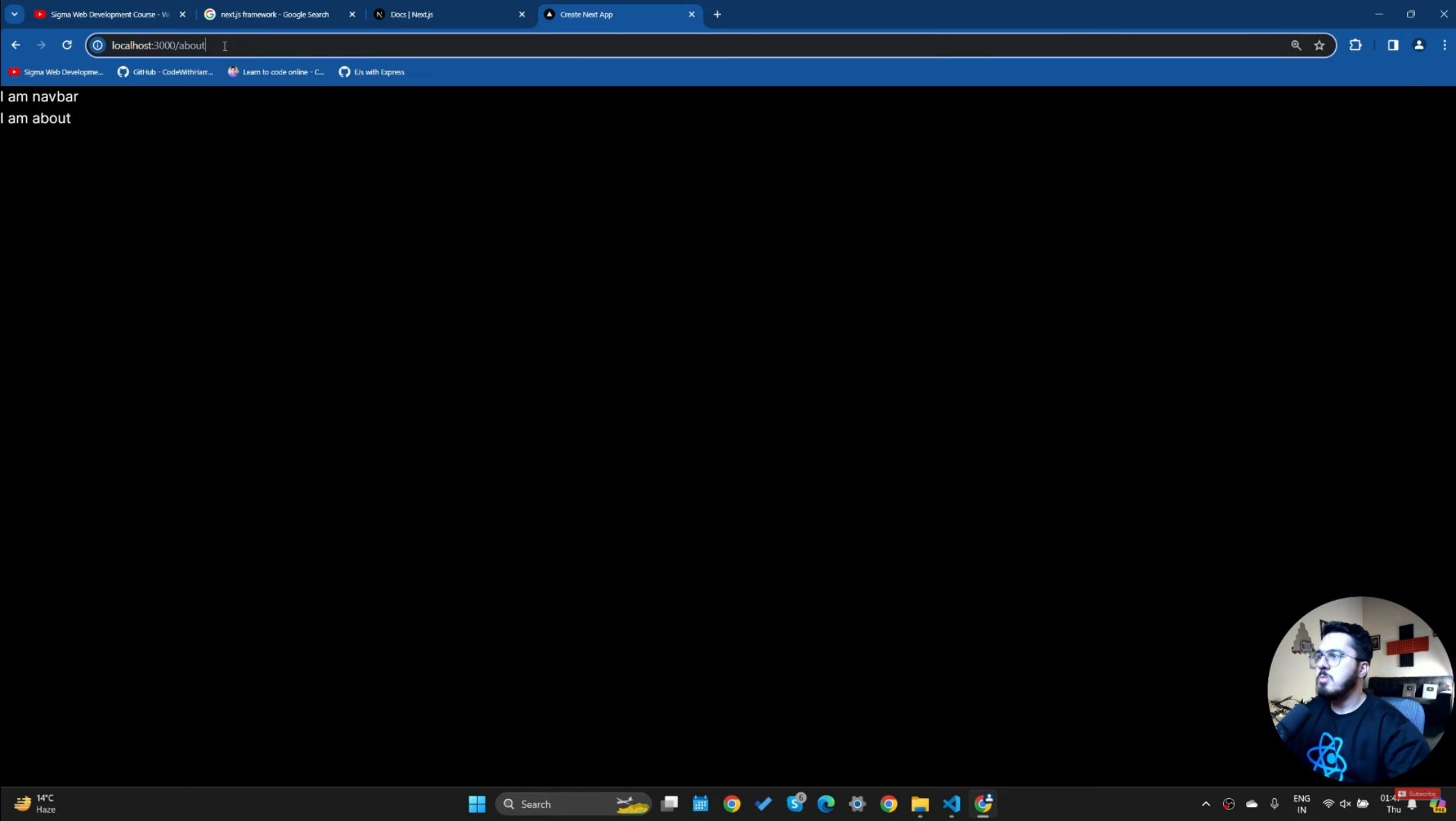
```
app > JS layout.js > RootLayout
1 import { Inter } from "next/font/google";
2 import "./globals.css";
3 import Navbar from "@/component/Navbar"; ←
4
5 const inter = Inter({ subsets: ["latin"] });
6
7 export const metadata = {
8   title: "Create Next App",
9   description: "Generated by create next app",
10};
11
12 export default function RootLayout({ children }) {
13   return (
14     <html lang="en">
15       <body className={inter.className}>
16         <Navbar/> ←
17         {children}
18         </body>
19       </html>
20   );
21 }
```

Annotations on the right side of the code:

- A red arrow points to the import statement for "Navbar" with the handwritten note "@ in place of ../../".
- A green arrow points to the opening tag "<Navbar/>" with the handwritten note "outermost folder".

@ in place of/..







```
EXPLORER

FIRST
> 📁 .next
< app
  < about
    🌐 page.js
  > 📁 contact
    ⭐ favicon.ico
    🎨 globals.css
    JS layout.js
    🌐 page.js
  > 🛡 component
  > 🏙 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
```

The screenshot shows a code editor with a tab bar at the top containing five tabs: 'page.js app', 'globals.css 3', 'page.js ...\\about X', 'page.js ...\\contact JS', and 'Navbar.js JS'. Below the tabs, the file structure is shown as 'app > about > page.js > ...'. The main content area displays the following code:

```
1 import React from 'react'
2
3 const page = () => {
4     return (
5         <div>
6             <h1 className="text-xl">Problems solved by Next.js</h1>
7             <ul>
8                 ●<li>Full Stack Solution</li>
9                 ●<li>File based Routing</li>
10                ●<li>Additional features like router from next.js</li>
11                ●<li>Optimized rendering</li>
12            </ul>
13        </div>
14    )
15 }
16
17 export default page|
```



EXPLORER ...

FIRST

- > .next
- > app
 - about
 - page.js
 - contact
 - favicon.ico
 - globals.css 3
- JS layout.js
- page.js
- component
- 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 | page.js ...\\about | JS layout.js X | JS page.js ...\\contact | JS Navbar.js | ⌂ ...

app > JS layout.js > [o] metadata > 📜 description

```
1 import { Inter } from "next/font/google";
2 import "./globals.css";
3 import Navbar from "@/component/Navbar";
4
5 const inter = Inter({ subsets: ["latin"] });
6
7 export const metadata = {
8   title: "Blog",
9   description: "I am a blog", ←
10 };
11
12 export default function RootLayout({ children }) {
13   return (
14     <html lang="en">
15       <body className={inter.className}>
16         <Navbar/>
17         {children}
18         </body>
19     </html>
20   );
21 }
```





localhost:3000/about

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I am navbar

Problems solved by Next.js

Full Stack Solution

File based Routing

Additional features like router from next/navigation

Optimized rendering



