Data Fetching

SSR, SSG & ISR in Next.js | Sigma Web Development Course - Tutorial #133

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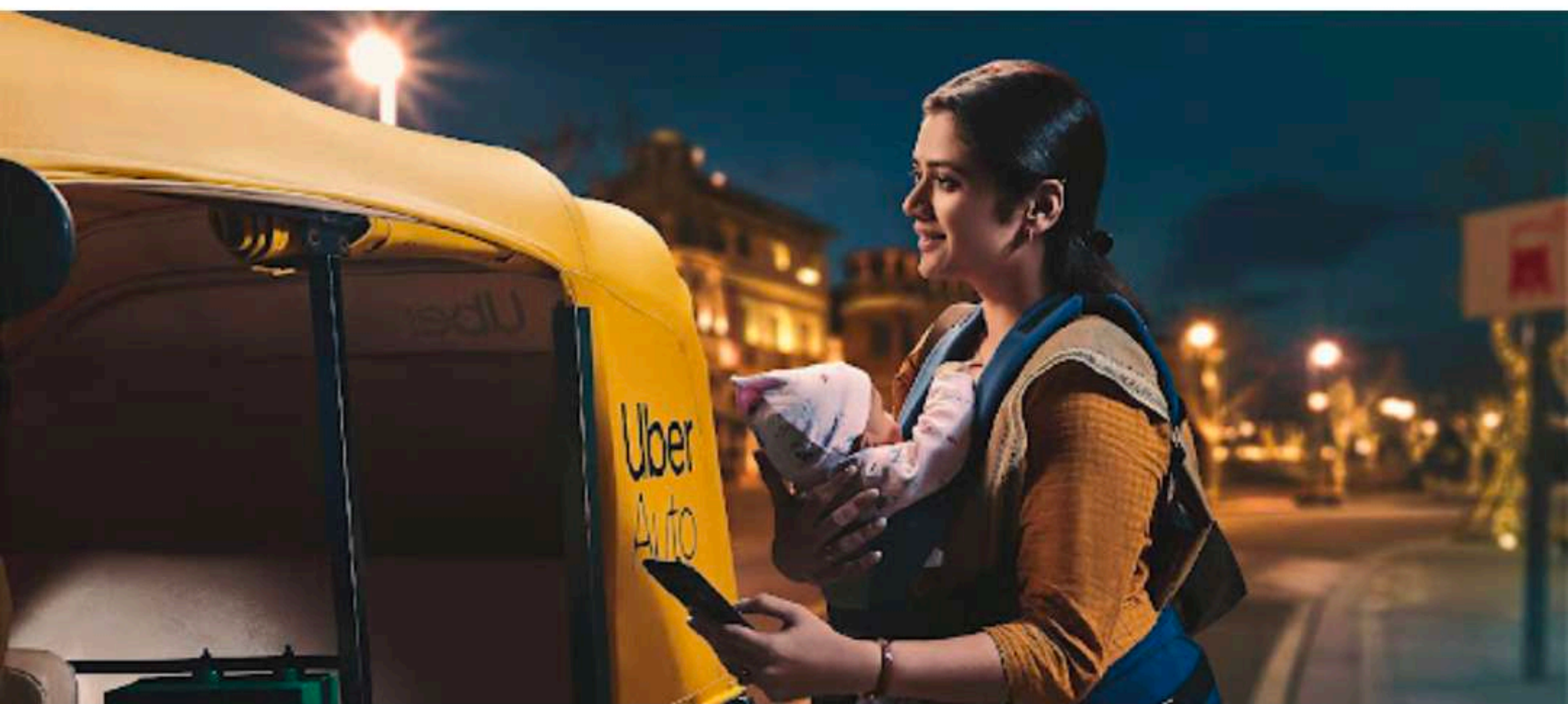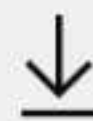**CodeWithHarry** 8.41M   **Join**   🔔 ∨

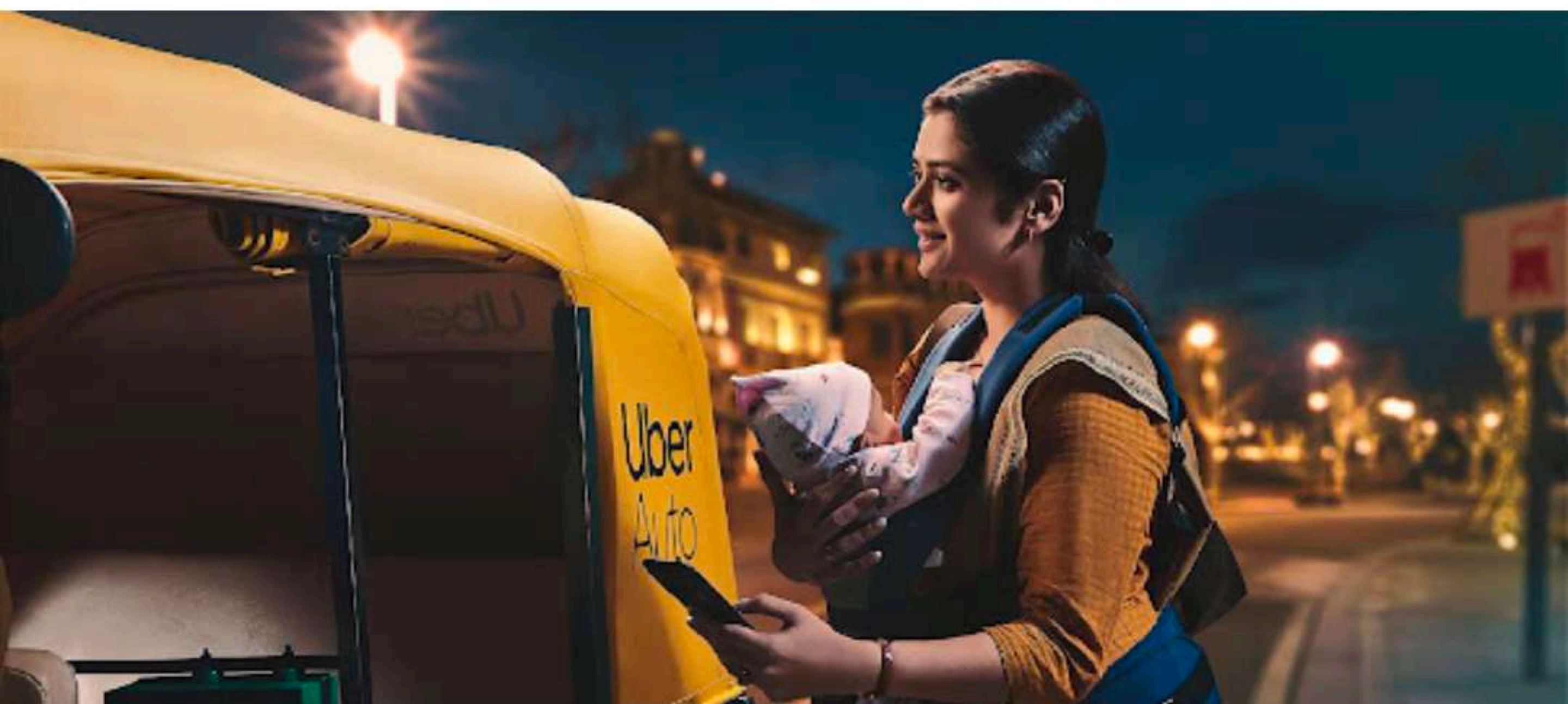👍 1.2K | 👎   ↗ Share   ℰ₊ Remix   ↓ Download

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```
23   ## SSR - Server Side Rendering
24   This is default behaviour
25
26   ## SSG - Static Site Generation
27   Any content which does not have network calls is a static page by default
28
29   ## ISG or ISR
30   fetch in next.js caches the response
31   However, there are exceptions, fetch requests are not cached when:
32
33   Used inside a Server Action.
34   Used inside a Route Handler that uses the POST method.
35
36
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Import trace for requested module:
./app/page.js
 ○ Compiling /_error ...
 ✓ Compiled /_error in 1032ms (753 modules)
 GET / 200 in 80ms
```

ISG or ISR

fetch in next.js caches the response
To opt out use:

```
export const dynamic = 'force-dynamic';
```

However, there are exceptions, fetch requests are not cached when:

- Used inside a Server Action.
- Used inside a Route Handler that uses the POST method.

Environment

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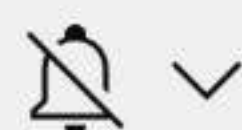
👍 **909** | 👎   ➦ **Share**   ℰ **Remix**   ⬇ **Download**

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≡▶ **Next: Styled JSX and other ways to Style in Nex...**
Today's Special · 5/6   ⌃

File Edit Selection View Go ...

EXPLORER ...

∨ ENVIRONMENT-VARIABLES
  > .next
  > app
  > node_modules
  ⚙ .env
  ◉ .eslintrc.json
  ◆ .gitignore
  {} jsconfig.json
  JS next.config.mjs
  {} package-lock.json
  {} package.json
  JS postcss.config.mjs
  ① README.md
  JS tailwind.config.js

⚙ .env ✕

⚙ .env

```
1  ID=harry
2  SECRET=harry123456
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   node

```
✓ Compiled in 136ms (545 modules)
  Reload env: .env
✓ Compiled in 88ms (545 modules)
  Reload env: .env
✓ Compiled in 110ms (545 modules)
  Reload env: .env
✓ Compiled in 101ms (545 modules)
```

Ln 1, Col 1 (28 selected)   Spaces: 4   UTF-8   CRLF   Properties

File   Edit   Selection   View   Go   ...

EXPLORER   ...

.env   JS page.js   ✕

V ENVIRONMENT-VARIABLES

app > JS page.js > ☐ Home

> .next
V app
  > fonts
  ★ favicon.ico
  # globals.css
  JS layout.js
  JS page.js
> node_modules
⚙ .env
◉ .eslintrc.json
◈ .gitignore
{} jsconfig.json
JS next.config.mjs
{} package-lock.json
{} package.json
JS postcss.config.mjs
ⓘ README.md
JS tailwind.config.js
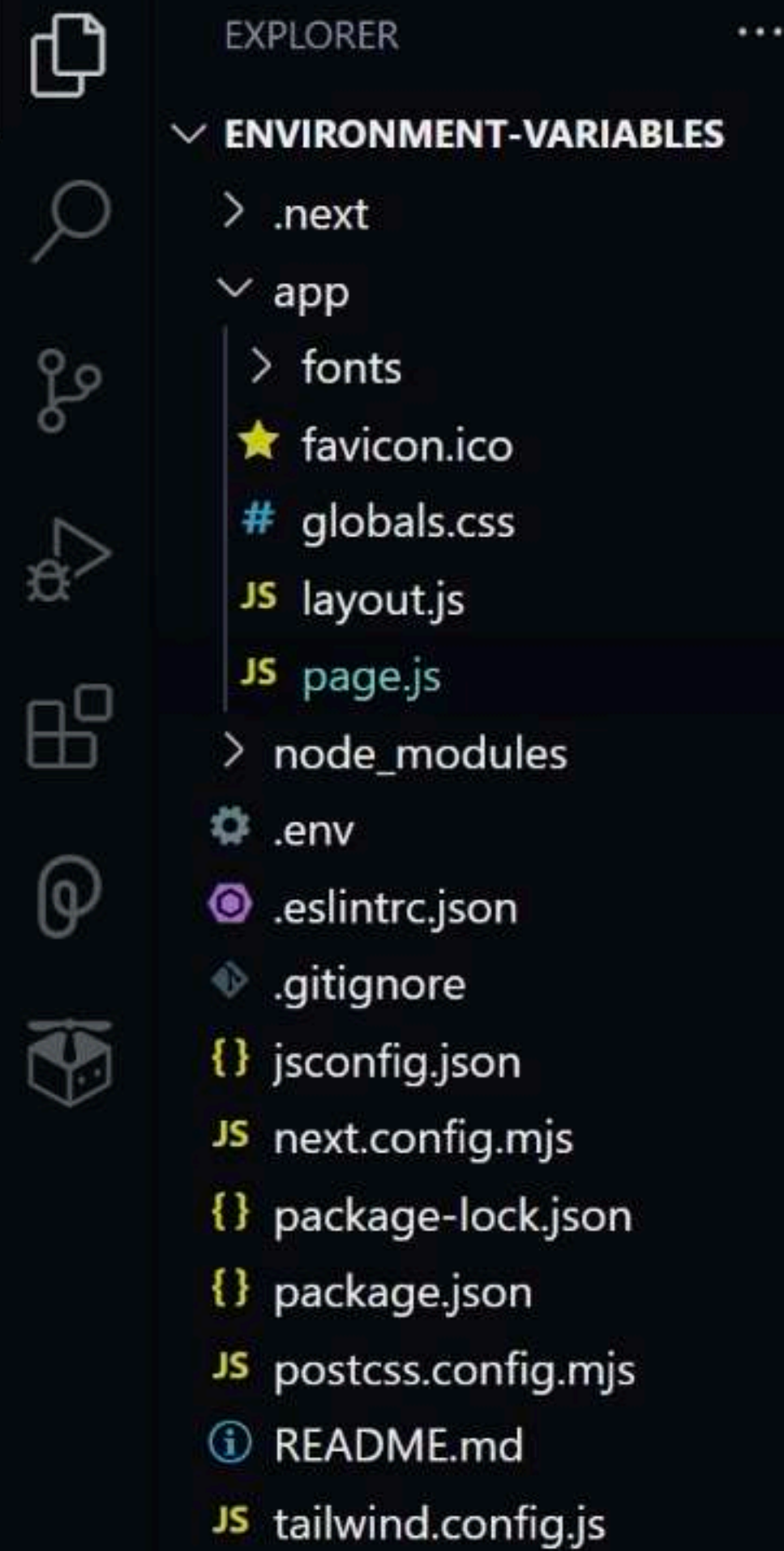
```js
1  import Image from "next/image";
2
3  export default function Home() {
4    console.log("The id is: ", process.env.ID)
5    console.log("The id is: ", process.env.SECRET)
6    return (
7      <div>
8        Hey this is home
9      </div>
10   );
11 }
12
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

node

Import trace for requested module:
./app/page.js
 GET / 500 in 18ms
 ✓ Compiled /_not-found in 228ms (742 modules)
The id is: harry
 ⚠ Fast Refresh had to perform a full reload. Read more: https://nextjs.org/docs/messages/fast-refresh-reload
 GET / 200 in 183ms
 ✓ Compiled /favicon.ico in 126ms (346 modules)

Ln 4, Col 43 (41 selected)   Spaces: 2   UTF-8   LF   {} JavaScript

File   Edit   Selection   View   Go   ...

EXPLORER

.env   JS page.js

ENVIRONMENT-VARIABLES

app > JS page.js > ...

```javascript
import Image from "next/image";

export default function Home() {
  console.log("The id is: ", process.env.ID)
  console.log("The secret is: ", process.env.SECRET)
  return (
    <div>
      Hey this is home. The id is {process.env.ID} and secret is {process.env.SECRET}
    </div>
  );
}
```

> .next
> app
  > fonts
  favicon.ico
  # globals.css
  JS layout.js
  JS page.js
> node_modules
  .env
  .eslintrc.json
  .gitignore
  {} jsconfig.json
  JS next.config.mjs
  {} package-lock.json
  {} package.json
  JS postcss.config.mjs
  (i) README.md
  JS tailwind.config.js

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
o Compiling /_not-found ...
✓ Compiled /_not-found in 183ms (773 modules)
The id is:  harry
The secret is:  harry123456
⚠ Fast Refresh had to perform a full reload. Read more: https://nextjs.org/docs/messages/fast-refresh-reload
GET / 200 in 189ms
GET /favicon.ico 200 in 15ms
```

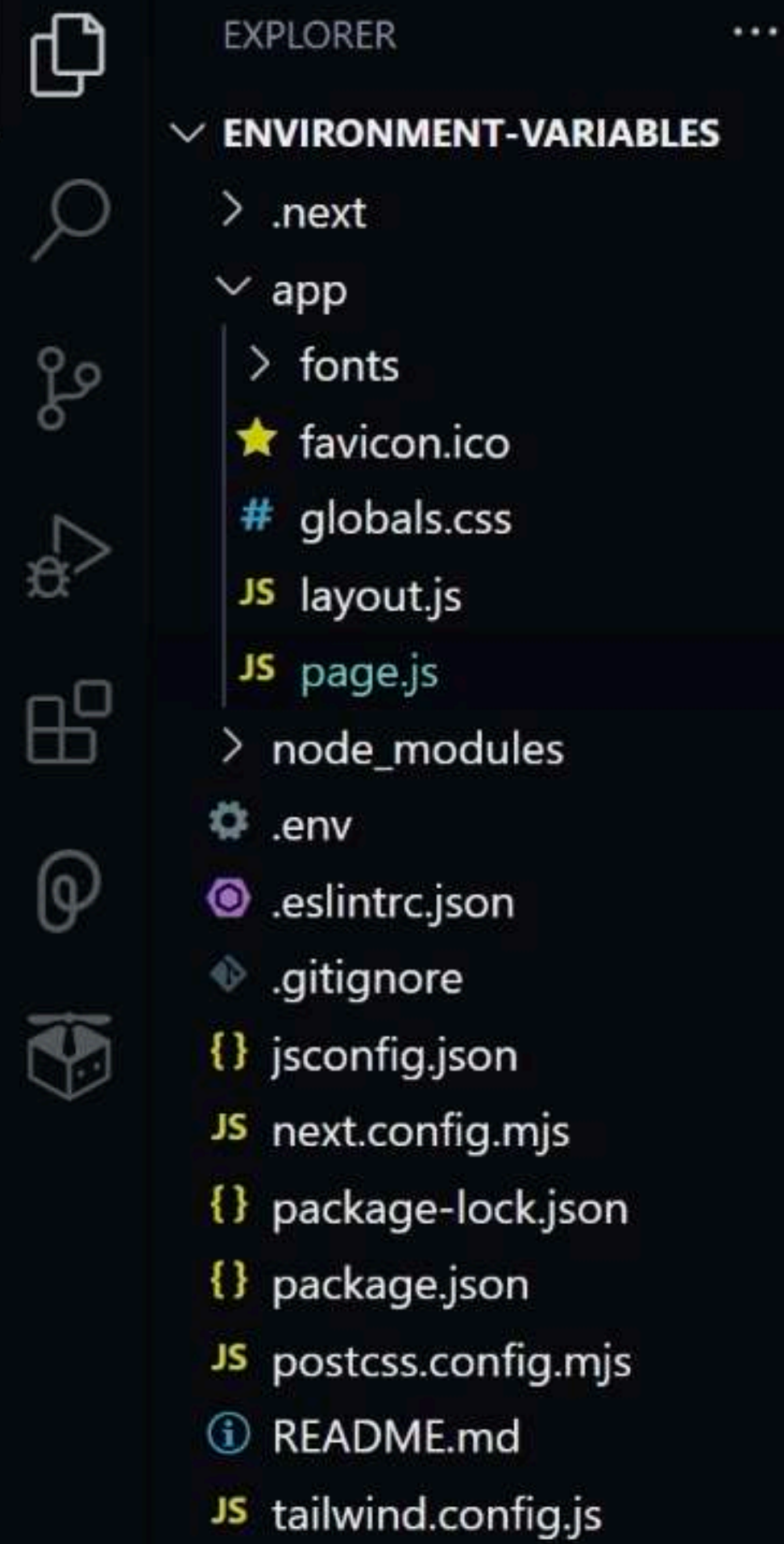Ln 12, Col 1   Spaces: 2   UTF-8   LF   {} JavaScript

File   Edit   Selection   View   Go   ...

EXPLORER

ENVIRONMENT-VARIABLES
- .next
- app
  - fonts
  - favicon.ico
  - globals.css
  - layout.js
  - page.js
- node_modules
- .env
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.mjs
- README.md
- tailwind.config.js

.env   JS page.js ×

app > JS page.js > ...

```js
1  "use client"
2  import Image from "next/image";
3
4  export default function Home() {
5    // console.log("The id is: ", process.env.ID)
6    // console.log("The secret is: ", process.env.SECRET)
7    return (
8      <div>
9        Hey this is home. The id is {process.env.ID} and secret is {process.env.
         SECRET}
10     </div>
11   );
12 }
13
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

node

```
GET / 200 in 189ms
GET /favicon.ico 200 in 15ms
✓ Compiled in 260ms (751 modules)
The id is:  harry
The secret is:  harry123456
✓ Compiled in 380ms (750 modules)
✓ Compiled in 141ms (750 modules)
```

Ln 1, Col 1 (12 selected)   Spaces: 2   UTF-8   LF   JavaScript

Search   17:01 Tue

EXPLORER

.env ×   JS page.js

ENVIRONMENT-VARIABLES

> .next
> app
  > fonts
  ★ favicon.ico
  # globals.css
  JS layout.js
  JS page.js
> node_modules
  ⚙ .env
  ◉ .eslintrc.json
  ◆ .gitignore
  {} jsconfig.json
  JS next.config.mjs
  {} package-lock.json
  {} package.json
  JS postcss.config.mjs
  ⓘ README.md
  JS tailwind.config.js

⚙ .env

```
1   NEXT_PUBLIC_ID=harry
2   SECRET=harry123456
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
✓ Compiled in 2.2s (768 modules)
✓ Compiled in 166ms (750 modules)
✓ Compiled in 260ms (751 modules)
GET / 200 in 81ms
✓ Compiled /favicon.ico in 173ms (344 modules)
GET /favicon.ico 200 in 243ms
✓ Compiled in 150ms (781 modules)
```

Ln 2, Col 19   Spaces: 4   UTF-8   CRLF   Properties

File Edit Selection View Go ...

EXPLORER

ENVIRONMENT-VARIABLES
- > .next
- ∨ app
  - > fonts
  - ⭐ favicon.ico
  - # globals.css
  - JS layout.js
  - JS page.js
- > node_modules
- ⚙ .env
- ◉ .eslintrc.json
- .gitignore
- {} jsconfig.json
- JS next.config.mjs
- {} package-lock.json
- {} package.json
- JS postcss.config.mjs
- ⓘ README.md
- JS tailwind.config.js

⚙ .env   JS page.js ✕

app > JS page.js > 🔲 Home

```js
1  "use client"
2  import Image from "next/image";
3
4  export default function Home() {
5    // console.log("The id is: ", process.env.ID)
6    // console.log("The secret is: ", process.env.SECRET)
7    return (
8      <div>
9        Hey this is home. The id is {process.env.NEXT_PUBLIC_ID} and secret is
         {process.env.SECRET}
10     </div>
11   );
12  }
13
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

node

```
✓ Compiled in 2.2s (768 modules)
✓ Compiled in 166ms (750 modules)
✓ Compiled in 260ms (751 modules)
GET / 200 in 81ms
✓ Compiled /favicon.ico in 173ms (344 modules)
GET /favicon.ico 200 in 243ms
✓ Compiled in 150ms (781 modules)
```

Ln 10, Col 11   Spaces: 2   UTF-8   LF   {} JavaScript

EXPLORER

ENVIRONMENT-VARIABLES
- .next
- app
  - fonts
  - favicon.ico
  - globals.css
  - layout.js
  - page.js
- node_modules
- .env
- .env.local
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json
- postcss.config.mjs
- README.md
- tailwind.config.js

.env $ .env.local   ✕   JS page.js

$ .env.local

```
1   NEXT_PUBLIC_ID=rohan
2   SECRET=rohan3456
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

node

```
GET /favicon.ico 200 in 53ms
GET /favicon.ico 200 in 5ms
✓ Compiled in 318ms (559 modules)
GET / 200 in 80ms
GET /favicon.ico 200 in 15ms
GET / 200 in 84ms
GET /favicon.ico 200 in 6ms
```

Subscribe

Ln 2, Col 17   Spaces: 4   UTF-8   LF   Shell Script

Environment Variables

▶ **Examples**

Next.js comes with built-in support for environment variables, which allows you to do the following:

- Use `.env.local` to load environment variables
- Bundle environment variables for the browser by prefixing with `NEXT_PUBLIC_`

Loading Environment Variables

Next.js has built-in support for loading environment variables from `.env.local` into `process.env`.

```
.env.local
1   DB_HOST=localhost
2   DB_USER=myuser
3   DB_PASS=mypassword
```

This loads `process.env.DB_HOST`, `process.env.DB_USER`, and `process.env.DB_PASS` into the Node.js environment automatically allowing you to use them in Next.js data

---

On this page

Loading Environment Variables

  Referencing Other Environment Variables

Bundling Environment Variables for the Browser

  Runtime Environment Variables

Default Environment Variables

Environment Variables on Vercel

Test Environment Variables

Environment Variable Load Order

Good to know

Version History

Managed Next.js (Vercel) ↗

`@next/env` package.

```
1  // The below can be used in a Jest global setup file or similar for your te
2  import { loadEnvConfig } from '@next/env'
3
4  export default async () => {
5     const projectDir = process.cwd()
6     loadEnvConfig(projectDir)
7  }
```

Environment Variable Load Order

Environment variables are looked up in the following places, in order, stopping once the variable is found.

1. `process.env`
2. `.env.$(NODE_ENV).local`
3. `.env.local` (Not checked when `NODE_ENV` is `test`.)
4. `.env.$(NODE_ENV)`
5. `.env`

For example, if `NODE_ENV` is `development` and you define a variable in both `.env.development.local` and `.env`, the value in `.env.development.local` will be used.

> **Good to know:** The allowed values for `NODE_ENV` are `production`, `development` and `test`.

On this page

Loading Environment Variables

  Referencing Other Variables

Bundling Environment Variables for the Browser

  Runtime Environment Variables

Default Environment Variables

Environment Variables on Vercel

Test Environment Variables

Environment Variable Load Order

Good to know
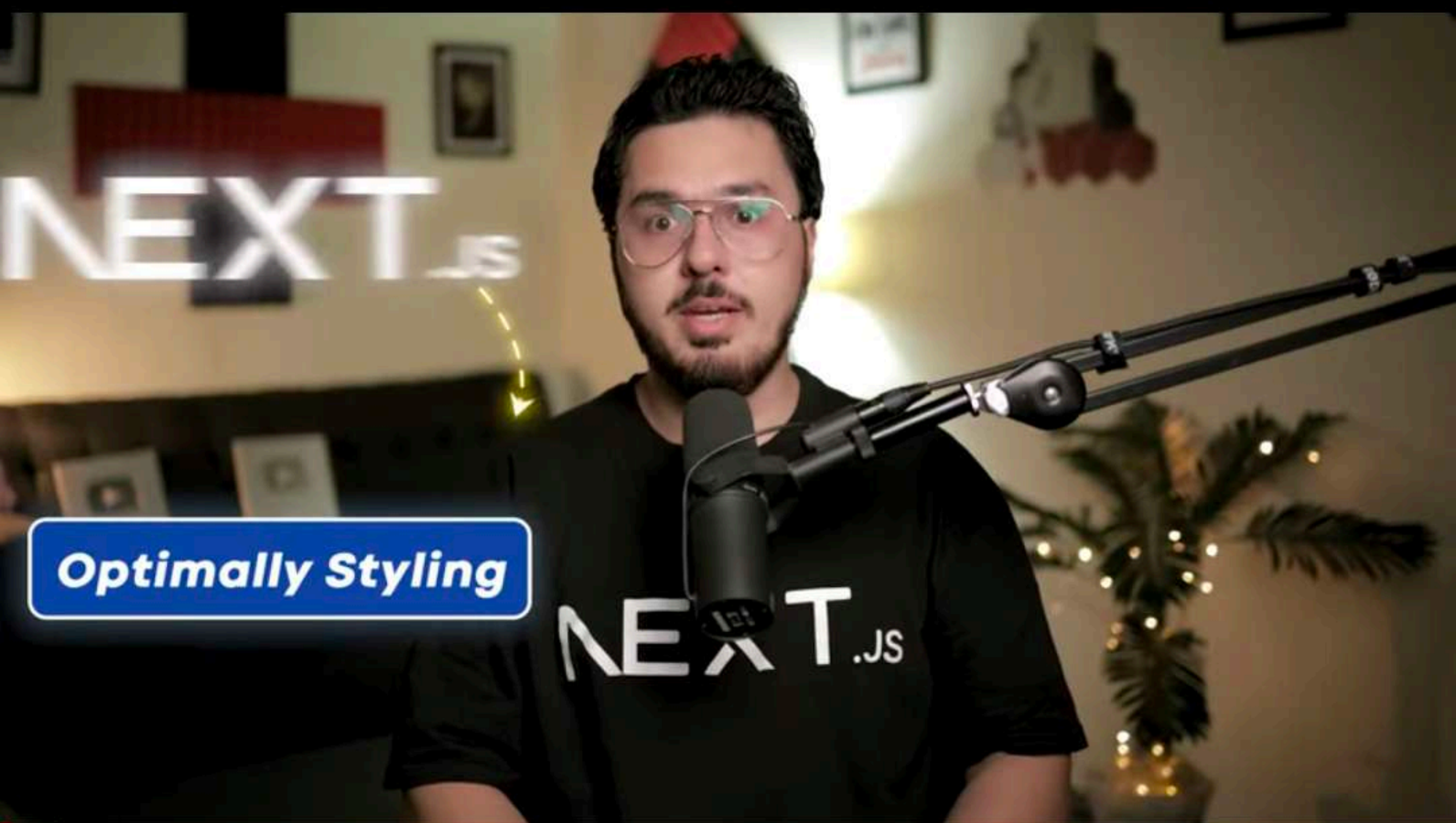
Version History

Managed Next.js (Vercel) ↗

Scroll to top ⊙
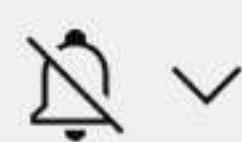
Optimally Styling

NEXT.JS

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finally harry remember this course is pending
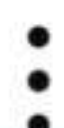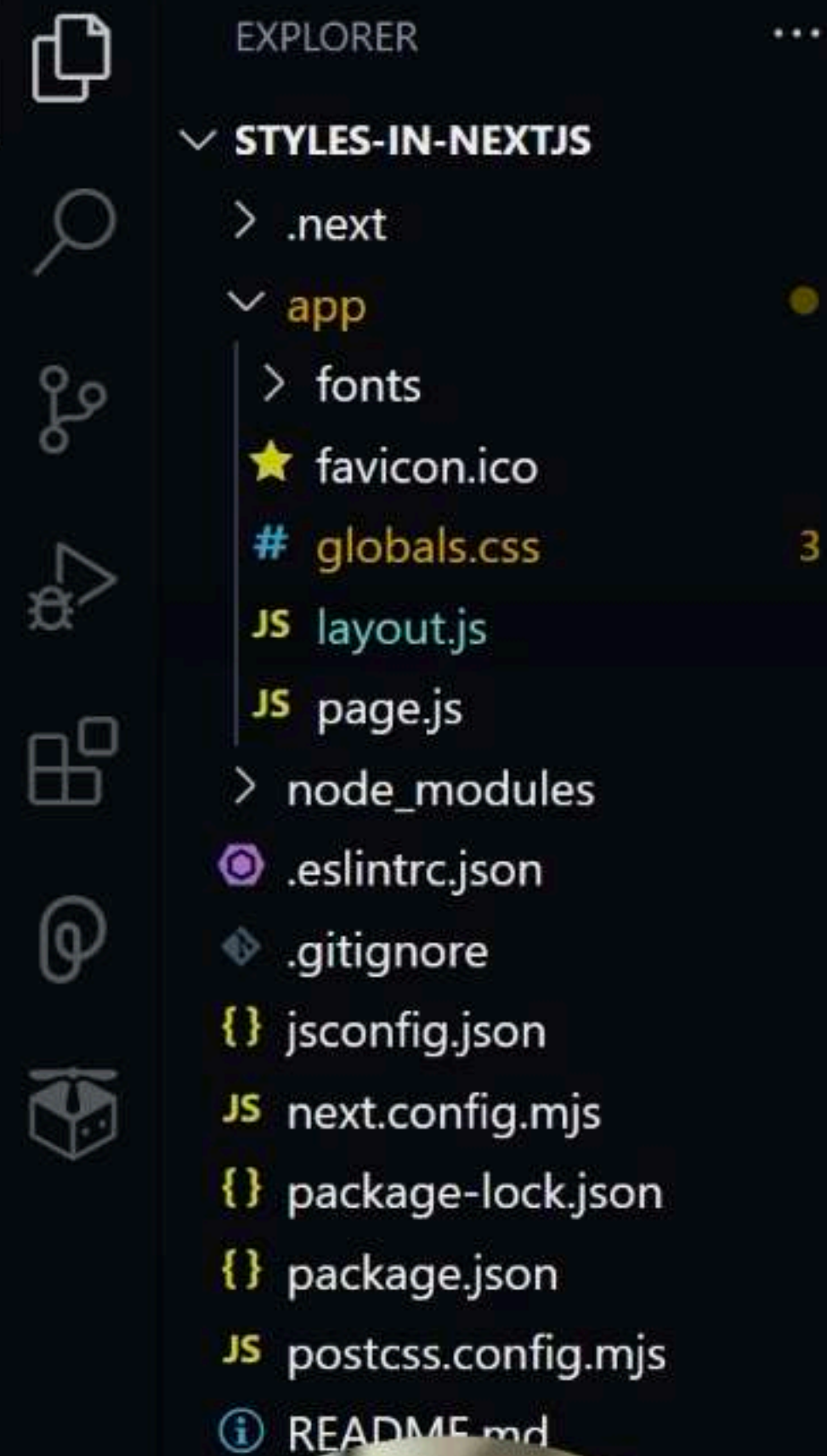
```javascript
import localFont from "next/font/local";
import "./globals.css";

const geistSans = localFont({
  src: "./fonts/GeistVF.woff",
  variable: "--font-geist-sans",
  weight: "100 900",
});
const geistMono = localFont({
  src: "./fonts/GeistMonoVF.woff",
  variable: "--font-geist-mono",
  weight: "100 900",
});

export const metadata = {
  title: "Create Next App",
  description: "Generated by create next app".
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
▲ Next.js 14.2.15
- Local:        http://localhost:3000

✓ Starting...
✓ Ready in 1644ms
○ Compiling / ...
✓ Compiled / in 2.9s (546 modules)
GET / 200 in 3244ms
✓ Compiled in 340ms (254 modules)
○ Compiling /favicon.ico ...
```
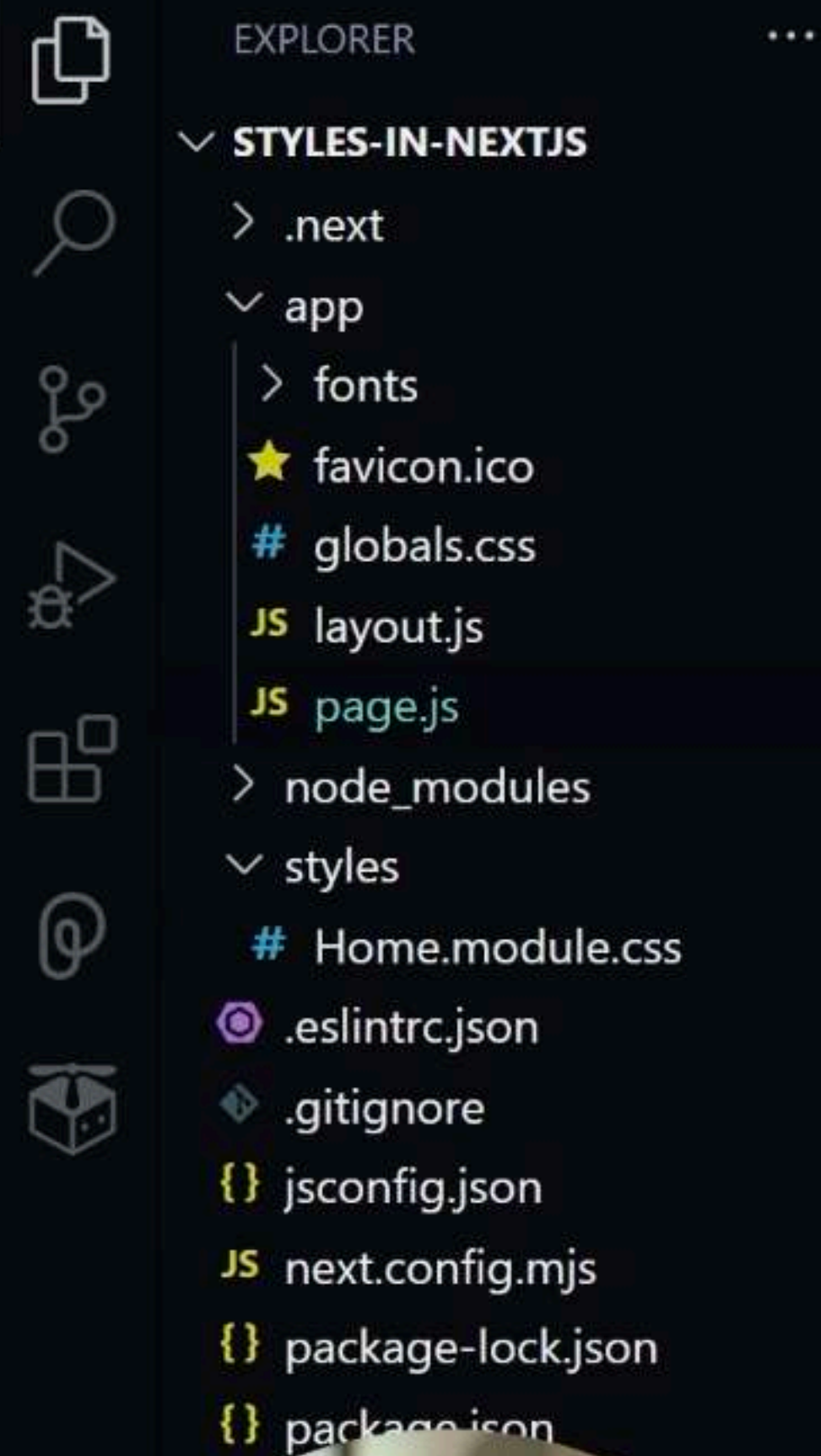
```js
import Image from "next/image";
import styles from "../styles/home.module.css"


export default function Home() {
  return (
    <div className={styles.red}>
      Hey
    </div>
  );
}
```

TERMINAL

```
▲ Next.js 14.2.15
- Local:        http://localhost:3000

✓ Starting...
✓ Ready in 1644ms
○ Compiling / ...
✓ Compiled / in 2.9s (546 modules)
GET / 200 in 3244ms
✓ Compiled in 340ms (254 modules)
○ Compiling /favicon.ico ...
```

EXPLORER

STYLES-IN-NEXTJS
- .next
- app
  - fonts
  - favicon.ico
  - globals.css
  - layout.js
  - page.js
- node_modules
- styles
  - Home.module.css
- .eslintrc.json
- .gitignore
- jsconfig.json
- next.config.mjs
- package-lock.json
- package.json

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```css
body{
    background-color: green;
}

.red{
    color: red;
}
```

File Edit Selection View Go ...

EXPLORER

JS page.js app   JS page.js ...\about ✕   # Home.module.css

STYLES-IN-NEXTJS

app > about > JS page.js > [∅] About

> .next
∨ app
  ∨ about
    JS page.js
  > fonts
  ⭐ favicon.ico
  # globals.css
  JS layout.js
  JS page.js
> node_modules
∨ styles
  # Home.module.css
  ⊙ .eslintrc.json
  ⬦ .gitignore
  {} jsconfig.json
  JS next.config.mjs

```
 1  import React from 'react'
 2
 3  const About = () => {
 4    return (
 5      <div className='container'>
 6
 7          <h1>This is about me</h1>
 8          <p>Hey I am a good boy</p>
 9
10          <style ></style>
11      </div>
12    )
13  }
14
15  export default About
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   node

▲ Next.js 14.2.15
- Local: http://localhost:3000

✓ Starting...
✓ Ready in 1644ms
○ Compiling / ...
✓ Compiled / in 2.9s (546 modules)
GET / 200 in 3244ms
✓ Compiled in 340ms (254 modules)
○ Compiling /favicon.ico ...

← Space

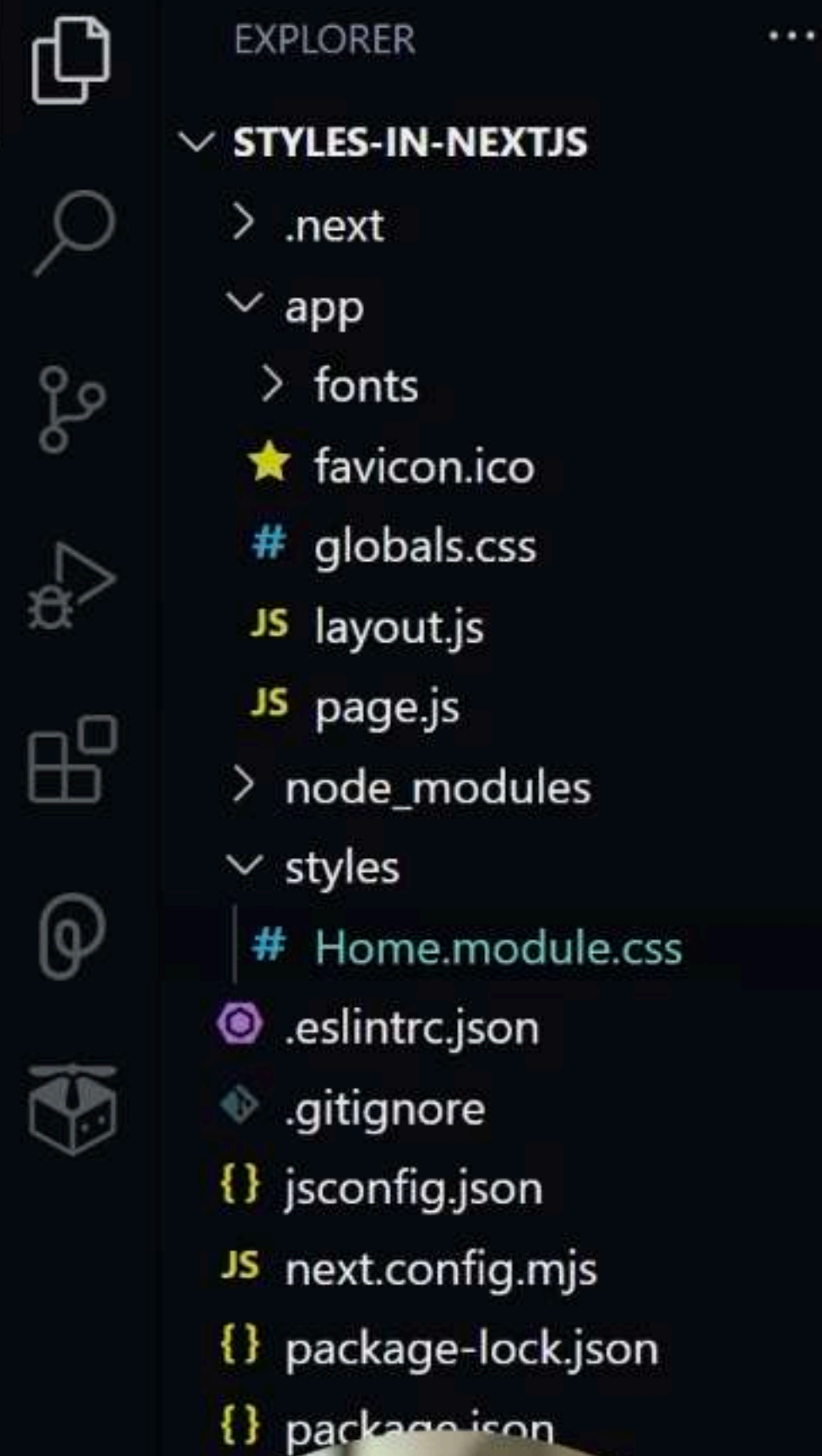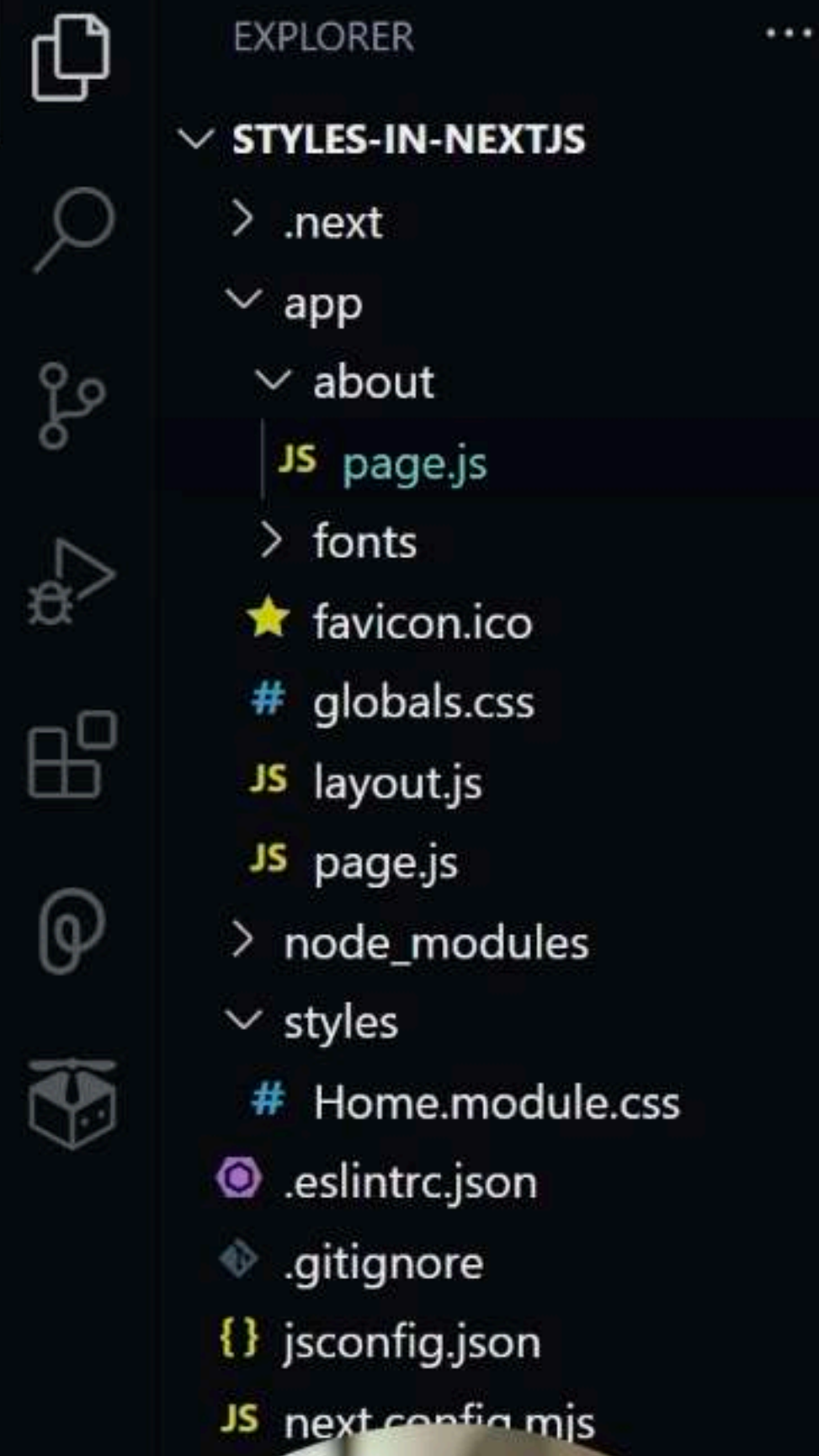Ln 10, Col 16   Spaces: 4   UTF-8   CRLF   {} JavaScript

Subscribe

31°C Haze   Search   ENG IN   15:54 Wed

styles-in-nextjs

EXPLORER

JS page.js app | JS page.js ...\about ✕ | # Home.module.css

app > about > JS page.js > [∅] About

∨ STYLES-IN-NEXTJS
  > .next
  ∨ app
    ∨ about
      JS page.js
    > fonts
    ⭐ favicon.ico
    # globals.css
    JS layout.js
    JS page.js
    > node_modules
    ∨ styles
    # Home.module.css
  ◉ .eslintrc.json
  ◆ .gitignore
  {} jsconfig.json
  JS next.config.mjs

```jsx
import React from 'react'

const About = () => {
  return (
    <div className='container'>

        <h1>This is about me</h1>
        <p>Hey I am a good boy</p>

        <style jsx>{`
            .container{
                background-color: red;
                color: black;
            }
        `}
        </style>
    </div>
```
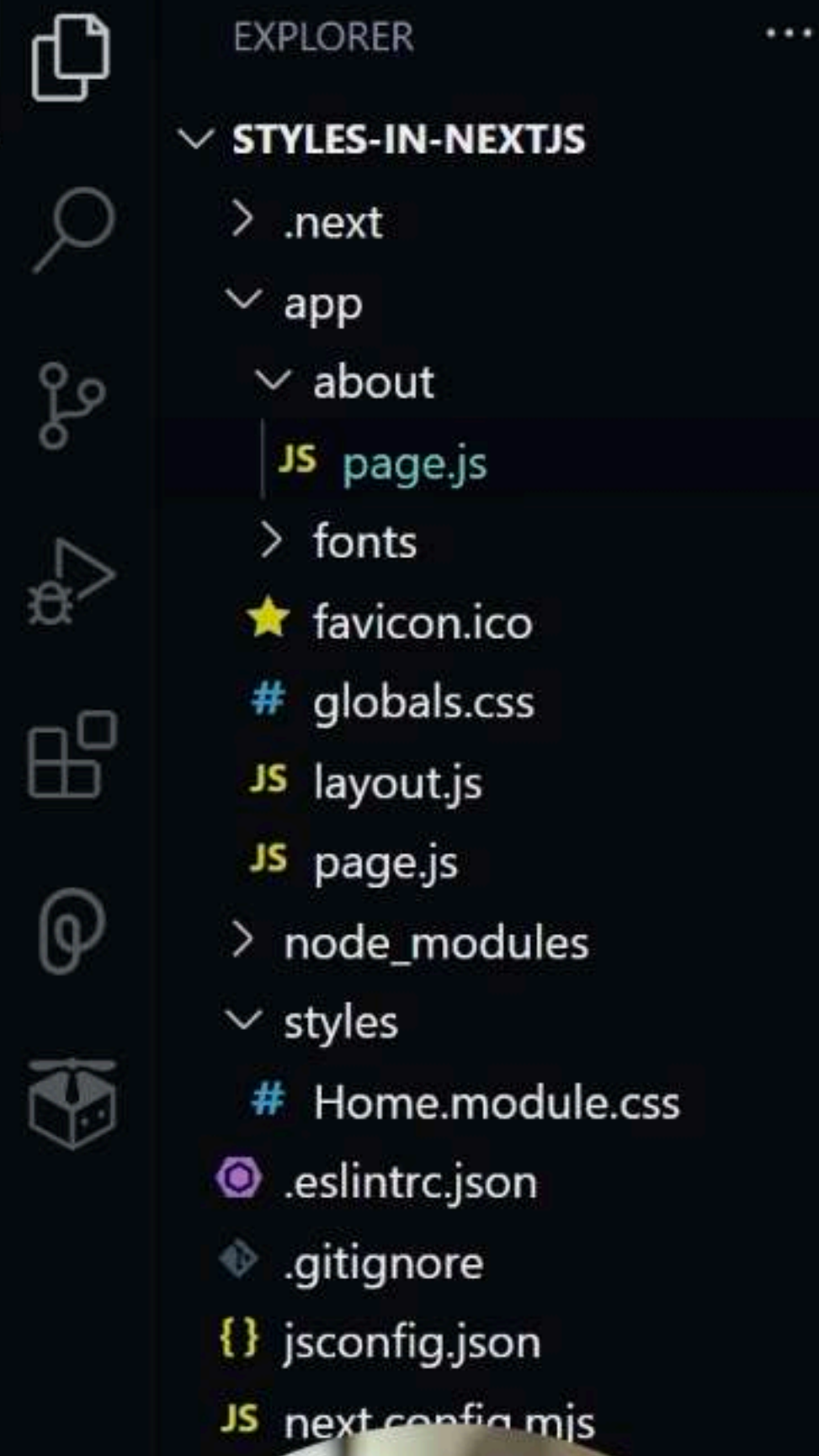
PROBLEMS　OUTPUT　DEBUG CONSOLE　TERMINAL　PORTS

▲ Next.js 14.2.15
- Local: http://localhost:3000

✓ Starting...
✓ Ready in 1644ms
○ Compiling / ...
✓ Compiled / in 2.9s (546 modules)
GET / 200 in 3244ms
✓ Compiled in 340ms (254 modules)
○ Compiling /favicon.ico ...

Ln 13, Col 30　Spaces: 4　UTF-8　CRLF　{} JavaScript

File   Edit   Selection   View   Go   ...

EXPLORER

JS page.js app   JS page.js ...\about ✕   # Home.module.css

∨ STYLES-IN-NEXTJS

app › about › JS page.js › ...

> .next

∨ app

  ∨ about

    JS page.js

  > fonts

  ⭐ favicon.ico

  # globals.css

  JS layout.js

  JS page.js

> node_modules

∨ styles

  # Home.module.css

 ⊙ .eslintrc.json

 ◆ .gitignore

 {} jsconfig.json

 JS next.config.mjs

```javascript
1    "use client"
2    import React from 'react'
3
4    const About = () => {
5      return (
6        <div className='container'>
7
8            <h1>This is about me</h1>
9            <p>Hey I am a good boy</p>
10
11           <style jsx>{`
12               .container{
13                   background-color: red;
14                   color: black;
15               }
16           `}
17           </style>
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

node

▲ Next.js 14.2.15
- Local: http://localhost:3000

✓ Starting...
✓ Ready in 1644ms
○ Compiling / ...
✓ Compiled / in 2.9s (546 modules)
GET / 200 in 3244ms
○ Compiling /favicon.ico ...

kspace U S E Space C L I E N T

nextjs.org/blog/styling-next-with-styled-jsx

▲ / NEXT.js

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← Back to Blog

Thursday, March 28th 2019

Styling Next.js with Styled JSX

Posted by

[Styled JSX ↗](#) is a CSS-in-JS library that allows you to write encapsulated and scoped CSS to style your components. The styles you introduce for one component won't affect other components, allowing you to add, change and delete styles without worrying about unintended side effects.
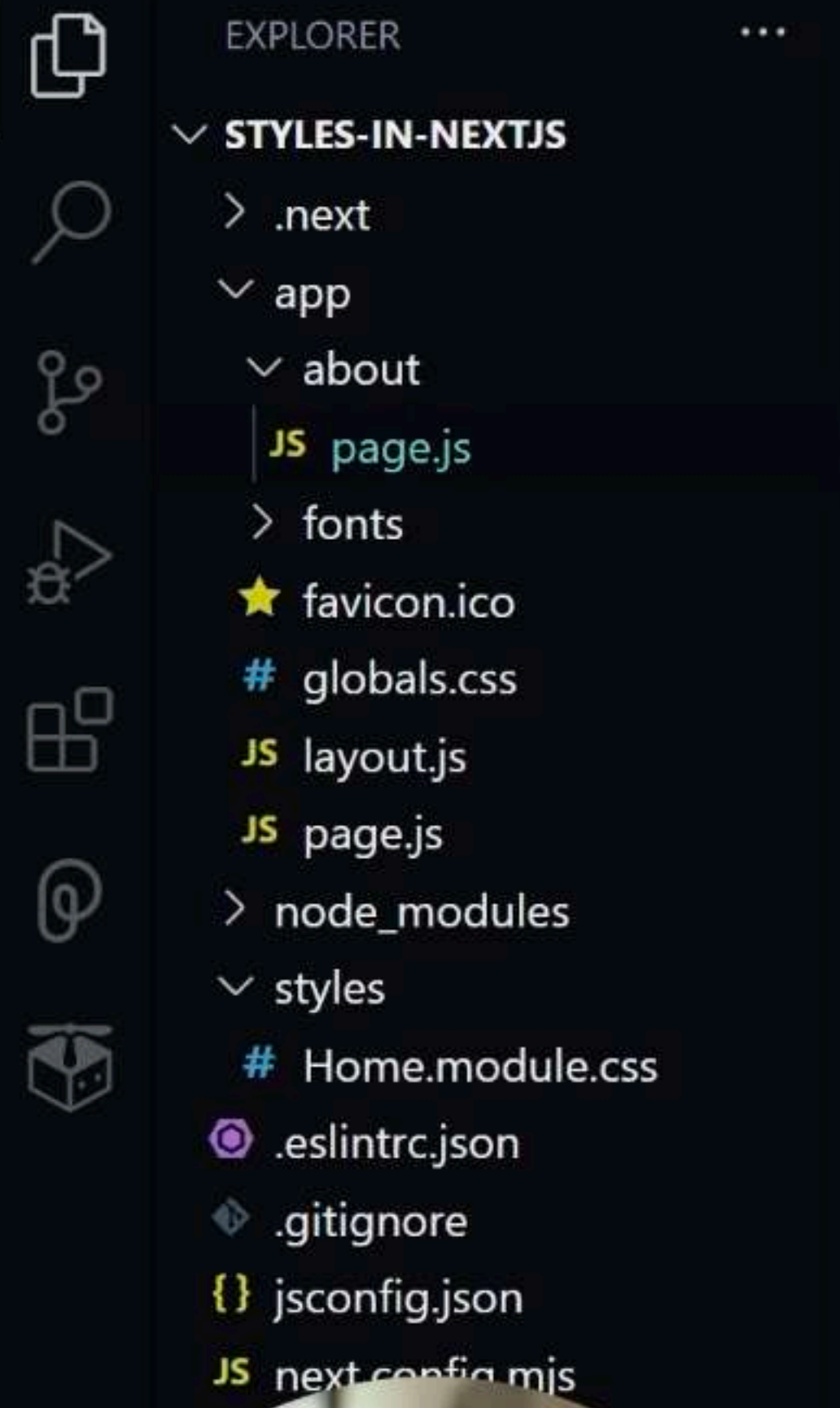
Getting started

Next.js includes Styled JSX by default, so getting started is as simple as adding a `<style jsx>` tag into an existing React element and writing CSS inside of it:

```
pages/index.js
1  function Home() {
2    return (
3      <div className="container">
4        <h1>Hello Next.js</h1>
5        <p>Let's explore different ways to style Next.js apps</p>
```

Subscribe

```javascript
"use client"
import React from 'react'

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

            <div className='container'>

                <h1>This is about me</h1>
                <p>Hey I am a good boy</p>

                <style jsx global>{`
                .container{
                    background-color: red;
                    color: green;
                }
                `}
                </style>
            </div>
            <div className="container">
                Hey I am good
            </div>
        </div>
    )
}

export default About
```