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NEXT.js

Showcase Docs Blog Analytics Templates Enterprise

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layout.js

 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 >
- File Conventions >

A layout is UI that is shared between routes.

app/dashboard/layout.tsx

```
1 export default function DashboardLayout({  
2   children,  
3 }: {  
4   children: React.ReactNode  
5 }) {  
6   return <section>{children}</section>  
7 }
```

TypeScript

On this page

Props

- children (required)
- params (optional)

Good to know

- Layouts do not receive searchParams
- Root Layouts

Version History

Edit this page on GitHub ↗

A root layout is the top-most layout in the root app directory. It is used to define the <html> and <body> tags and other globally shared UI.

app/layout.tsx

```
1 export default function RootLayout({  
2   children,  
3 }: {  
4   children: React.ReactNode  
5 }) {  
6   return (  
7     <html lang="en">  
8       <body>{children}</body>  
9     </html>  
10    )  
11  }
```

TypeScript

File Edit Selection View Go ... ← → 🔍 layouts

EXPLORER LAYOUTS

app favicon.ico globals.css JS layout.js 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

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="hompage">
6       I am homepage
7     </div>
8   );
9 }
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\iitija\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>

LN 7, COL 11 Spaces: 2 UTF-8 LF {} Java 20°C Cloudy BECOME A SIGMA WEB DEVELOPER @CodeWithHarry IN TU

decides the layout of pg.
Contains the main content





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

jsconfig.json

next.config.mjs

package-lock.json

package.json

postcss.config.js

README.md

tailwind.config.js

> OUTLINE

> TIMELINE

> TASK EXPLORER

JS page.js

JS layout.js

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"; ← I
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

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
 - jsconfig.json
 - next.config.mjs
 - package-lock.json
 - package.json
 - postcss.config.js
 - README.md
 - tailwind.config.js

> OUTLINE

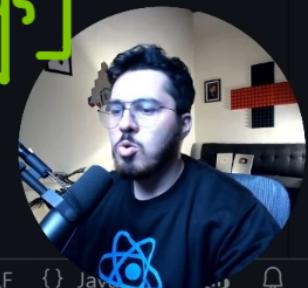
> TIMELINE

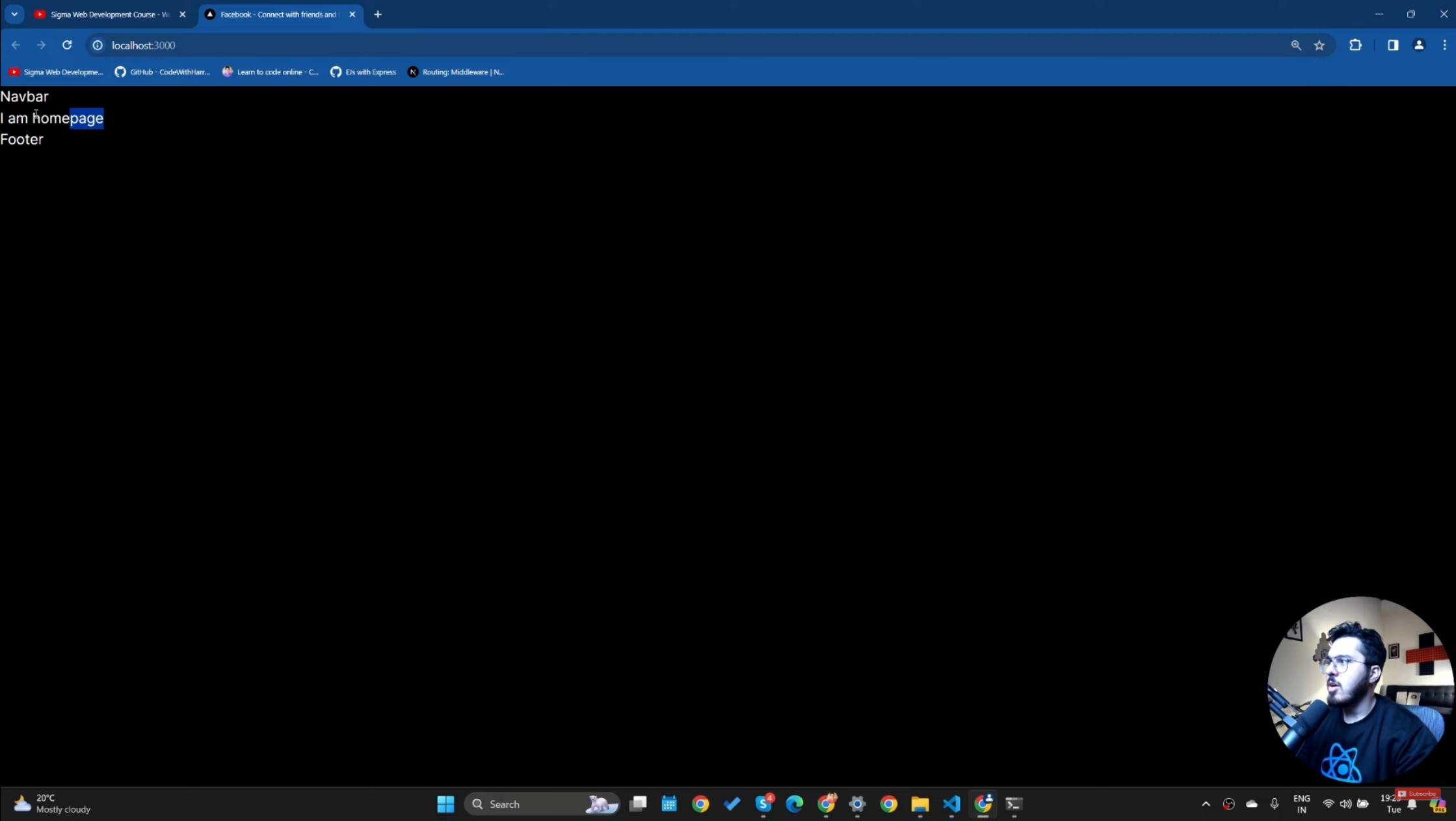
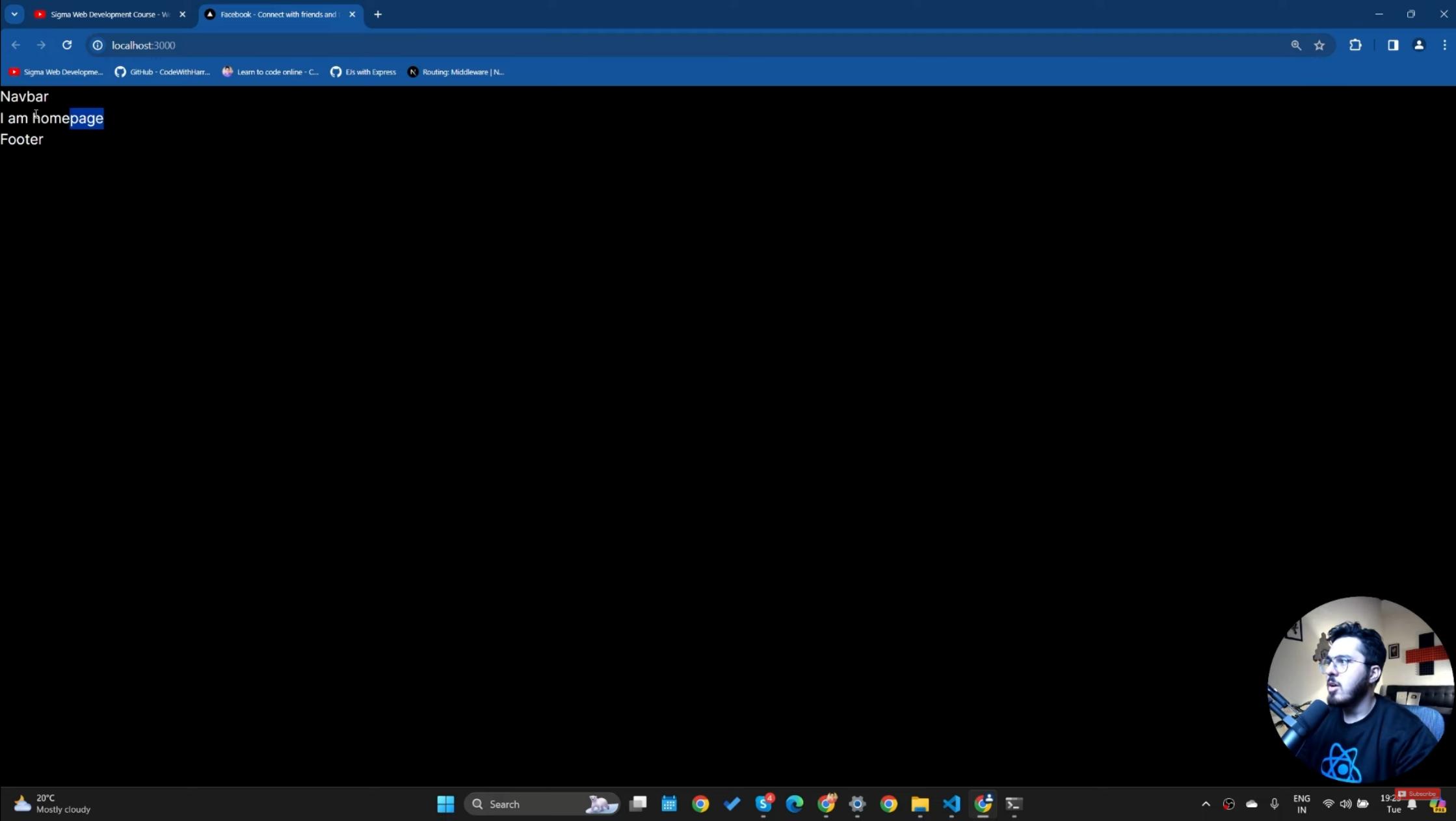
> TASK EXPLORER

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 }
```

Looks for more nested
layout.js [in diff. Page.js]
(during file-based routing)





File Edit Selection View Go ... ← → 🔍 layouts

EXPLORER LAYOUTS .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       <span>Admin Navbar</span>
16       {children}
17     </>
18   );
19 }
20 }
```

Nested 1 2

Emmet Abbreviation

Looks for 3

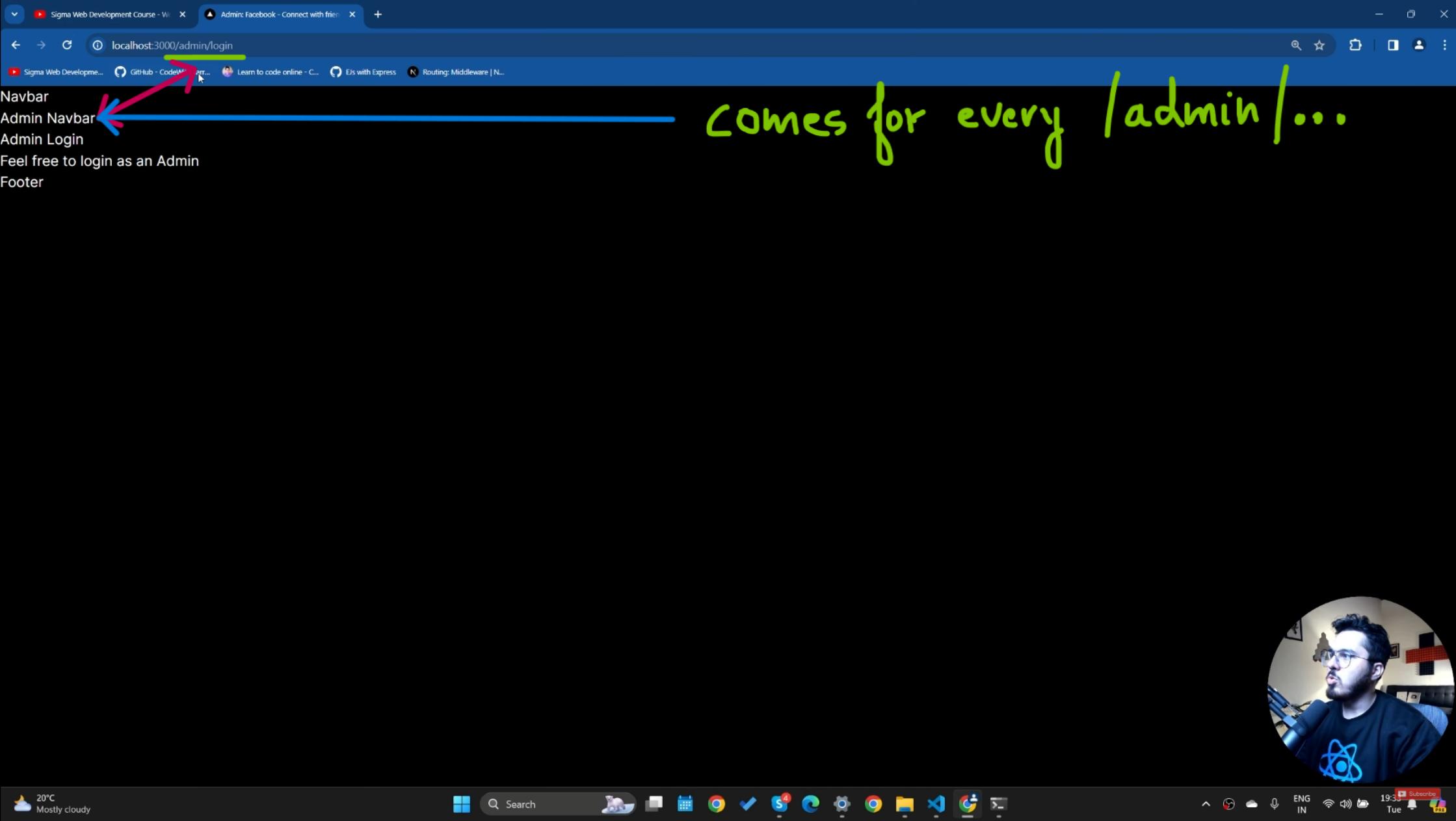
20°C Mostly cloudy

Search

LN 15, Col 24 Spaces: 4 UTF-8 CRLF {} Java

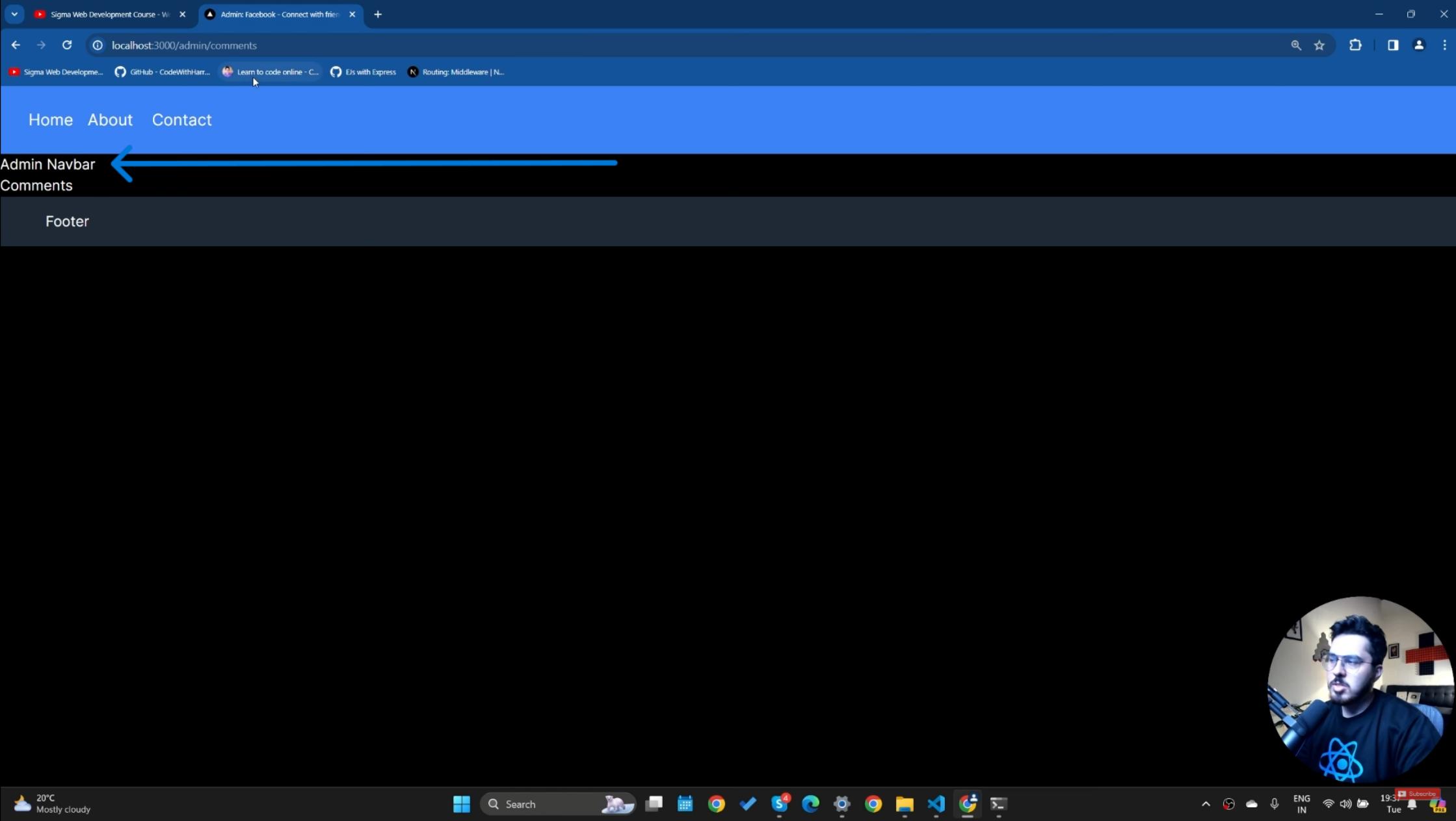
ENG IN 19:30 Subscr...

19:30 Tue



comes for every /admin/...





Sigma Web Development Course - W... Admin: Facebook - Connect with frien... +

localhost:3000/admin/comments

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Home About Contact

Admin Navbar ←

Comments

Footer

20°C 20°
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Search

ENG IN

19:31

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React Native

File Edit Selection View Go ... ← → layouts

EXPLORER ... LAYOUTS .next app about admin comments login logout JS layout.js favicon.ico globals.css JS layout.js JS page.js components Footer.js Navbar.js node_modules public .eslintrc.json .gitignore jsconfig.json next.config.mjs OUTLINE TIMELINE TASK EXPLORER

JS page.js ... \login JS page.js ... \logout JS page.js ... \comments JS layout.js ... \admin X JS Navbar.js JS ...

app > admin > JS layout.js > AdminLayout

```
1 import { Inter } from "next/font/google";
2 import Navbar from "@/components/Navbar";
3 import Footer from "@/components/Footer";
4
5 const inter = Inter({ subsets: ["latin"] });
6
7 export const metadata = {
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       <span>Admin Navbar</span>
16       {children}
17     </>
18   );
19 }
```

grouping layout do not to add /admin/... in URL



20°C Mostly cloudy 19:33 20:00 ENG IN Subscrib...

Search

Ln 15, Col 24 Spaces: 4 UTF-8 CRLF {} Java

EXPLORER

LAYOUTS

- > .next
- > app
 - > about
 - > admin
 - > admincomments
 - > adminlogin
 - > adminlogout
- > JS layout.js
- > favicon.ico
- > globals.css
- > JS layout.js
- > JS page.js
- > components
 - > Footer.js
 - > Navbar.js
- > node_modules
- > public
 - > .eslintrc.json
 - > .gitignore
 - > jsconfig.json
 - > next.config.mjs

OUTLINE

TIMELINE

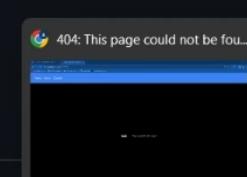
TASK EXPLORER

2

JS page.js ...\\adminlogin JS page.js ...\\adminlogout JS page.js ...\\admincomments JS layout.js ...\\admin

app > admin > JS layout.js > AdminLayout

```
1 import { Inter } from "next/font/google";
2 import Navbar from "@/components/Navbar";
3 import Footer from "@/components/Footer";
4
5 const inter = Inter({ subsets: ["latin"] });
6
7 export const metadata = {
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       <span>Admin Navbar</span>
16       {children}
17     </>
18   );
19 }
```



Home About Contact:

Admin Navbar
Comments

Footer

Still Not-Solved



EXPLORER

LAYOUTS

3

- > .next
- > app
 - > (admin)
 - > admincomments
 - > adminlogin
 - > adminlogout
 - JS layout.js
 - > about
 - 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

OUTLINE

TIMELINE

TASK EXPLORER

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

components > JS Navbar.js > [x] default

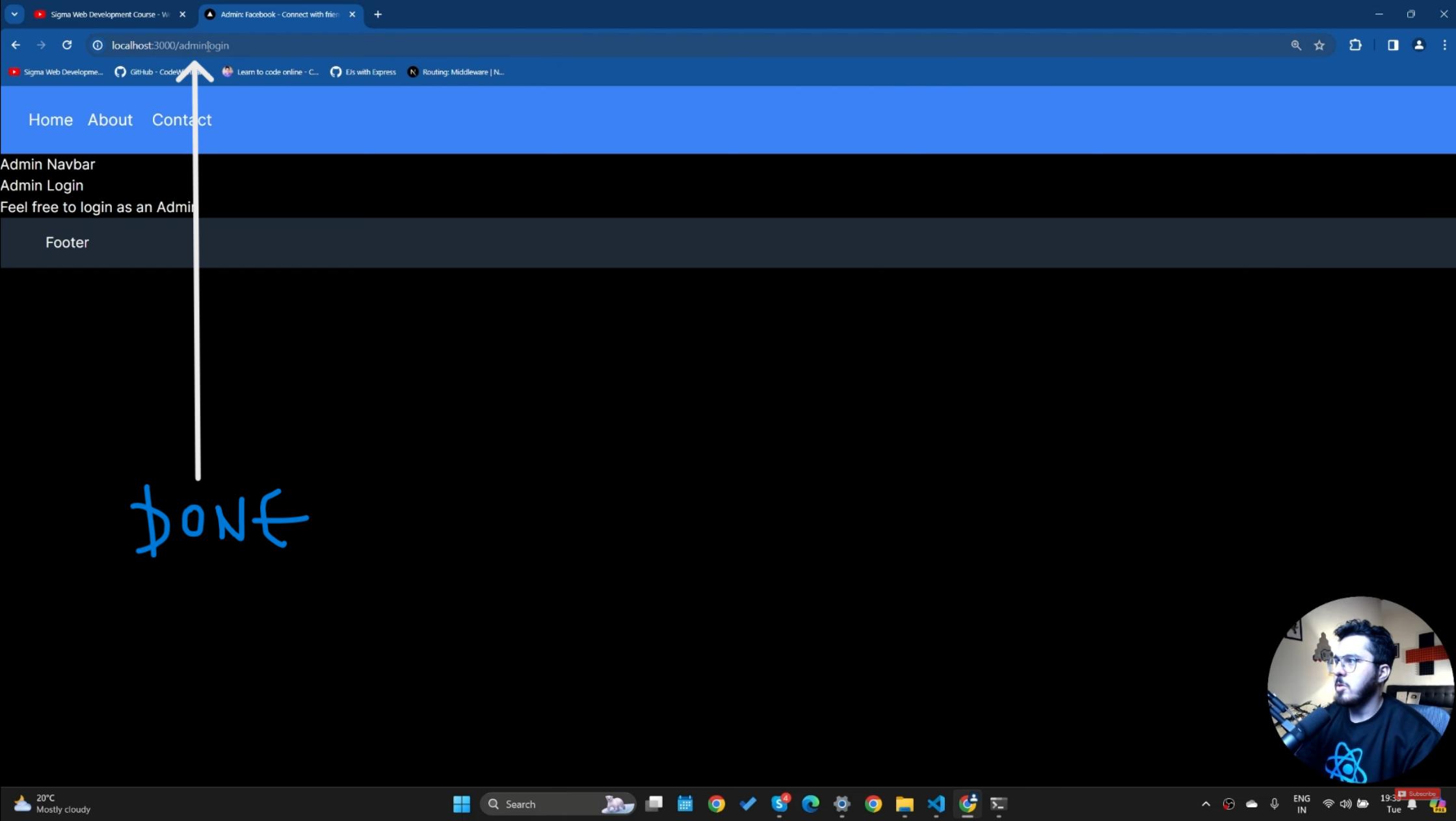
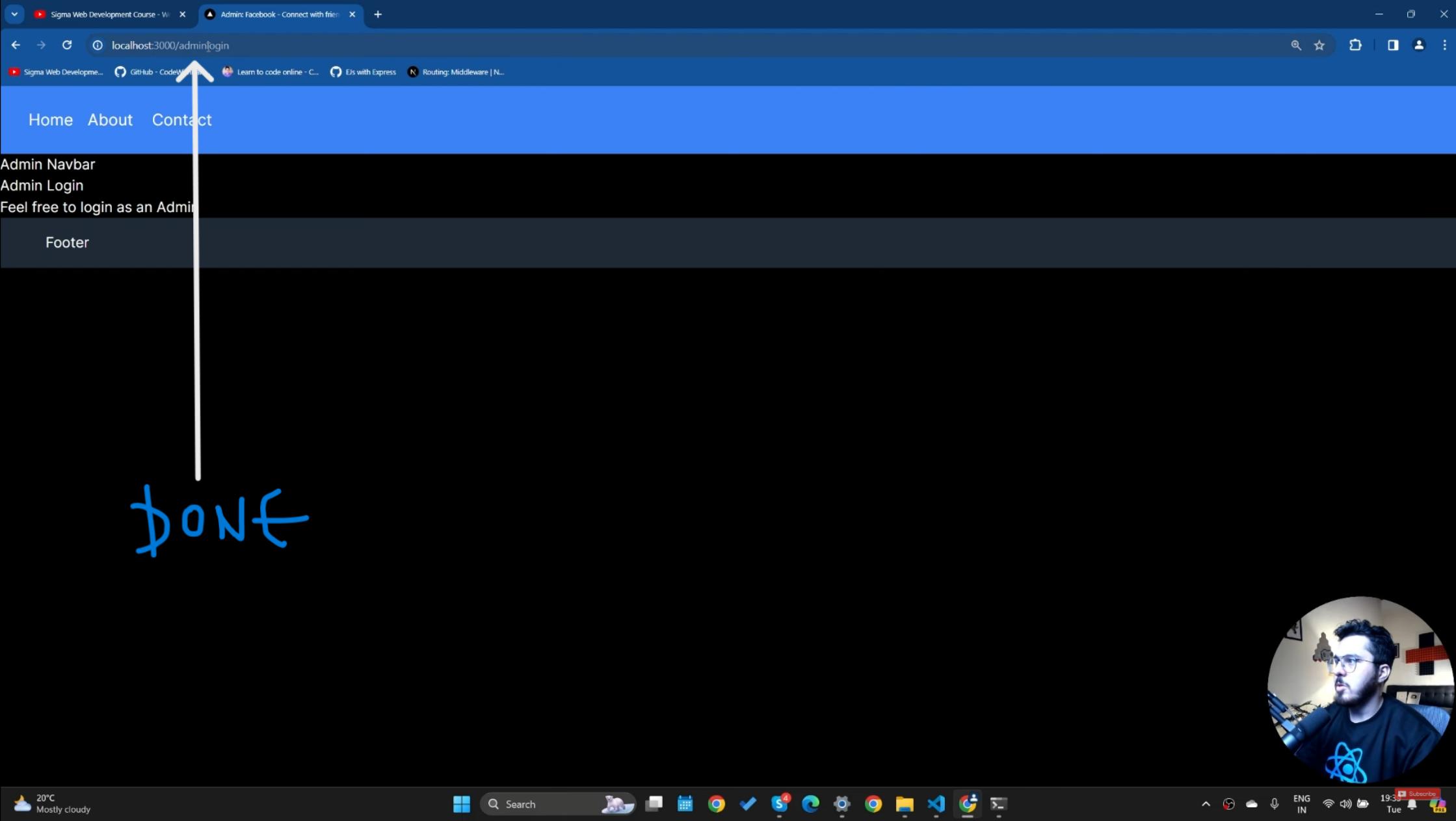
```
1 import Link from 'next/link'  
2  
3 const Navbar = () => {  
4     return (  
5         <nav className="flex items-center justify-between p-6 bg-blue-500">  
6             <div>  
7                 <Link className="text-white text-lg mx-2" href="/"> Home  
8             </Link>  
9                 <Link className="text-white text-lg mx-2" href="/about"> About  
10                </Link>  
11                <Link className="text-white text-lg mx-2" href="/contact"> Contact  
12                </Link>  
13            </div>  
14        </nav>  
15    )  
16}  
17 }  
18  
19 export default Navbar
```

(admin)

Now no need
for /admin
in url.

Also group layout.js for-all the
pages inside admin.





A screenshot of a Microsoft Visual Studio Code (VS Code) interface showing a Next.js project. The title bar says "layouts".

The Explorer sidebar on the left shows the project structure:

- LAYOUTS
 - .next
 - app
 - (admin)
 - admincomments
 - adminlogin
 - adminlogout
 - JS layout.js (highlighted with a red outline, 3 changes)
 - JS page.js
 - JS layout.js (highlighted with a red outline, 2 changes)
 - about
 - favicon.ico
 - globals.css
 - JS layout.js (highlighted with a red outline, 1 change)
 - JS page.js
 - components
 - JS Footer.js
 - JS Navbar.js
 - node_modules
 - public
 - .eslintrc.json
 - .gitignore

OUTLINE, TIMELINE, and TASK EXPLORER sections are also present.

The main editor area displays the contents of `JS layout.js ...\\adminlogout`:

```
app > (admin) > adminlogout > JS layout.js > AdminLayout
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        <span>Logout Navbar</span>
16        {children}
17      </>
18    );
19  }
20
```

The terminal at the bottom shows build logs:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
node + □ ×
```

```
at async Promise.all (index 0)
at async Promise.all (index 0)
at async Promise.all (index 0)
digest: "3849286248"
✓ Compiled in 147ms (564 modules)
✓ Compiled /favicon.ico in 66ms (325 modules)
✓ Compiled in 167ms (592 modules)
```

The status bar at the bottom shows "Ln 14, Col 8 Spaces: 4 UTF-8 CRLF {} Java".

The bottom right corner features a circular profile picture of a man with glasses and a beard.

System tray icons include a weather icon (20°C), a search bar, taskbar icons (File Explorer, Task View, File Explorer, Edge, Google Chrome, Microsoft Edge, Settings, File Explorer, File Explorer, Microsoft Edge, Google Chrome, File Explorer), and system status indicators (Battery, Network, Sound, Volume, Language, Date/Time).

Home About Contact

Admin Navbar Logout Navbar

Logout

Footer

2 3

1



Sigma Web Development Course - W | Logout

Functions: generateMetadata | Next.js

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

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Metadata Object and generateMetadata Options

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

Edit this page on GitHub ↗



20°C Mostly cloudy

Search

Windows Start

Cloudy 20°C

ENG IN

19:45

Subscribe

EXPLORER

LAYOUTS

- > .next
- > app
 - > (admin)
 - > admincomments
 - > adminlogin
 - JS page.js
 - > adminlogout
 - JS layout.js
 - > about
 - 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

> OUTLINE

> TIMELINE

> TASK EXPLORER

..\\about JS Navbar.js JS layout.js ...\\(admin) JS layout.js ...\\adminlogout JS page.js ...\\adminlogin X

```
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     title: 'AdminLogin Facebook - Connect with friends and the world around you',
     19   }
     20 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

✓ 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)



Home About Contact

Admin Navbar

Admin Login

Feel free to login as an Admin

Footer

