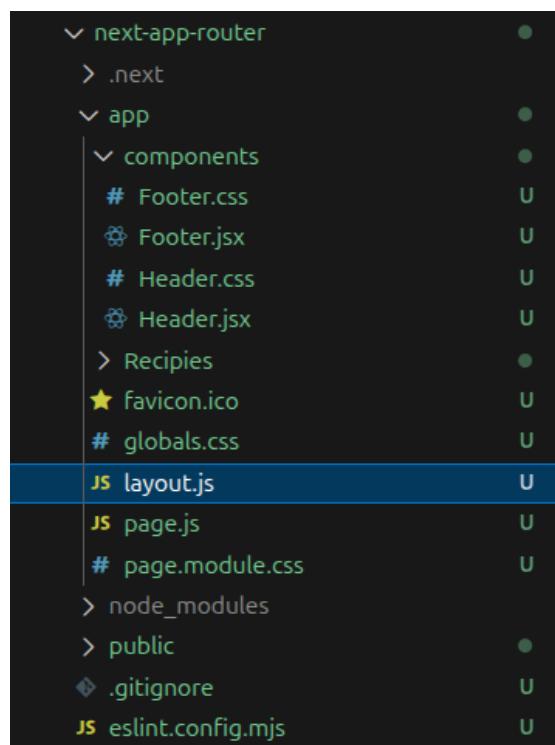


Module 4

Exercise4 (Intro to NextJs)

Q1.) Create 1st repo implemented with the App router implementation “next-app-router”.

A 1.) NextJS

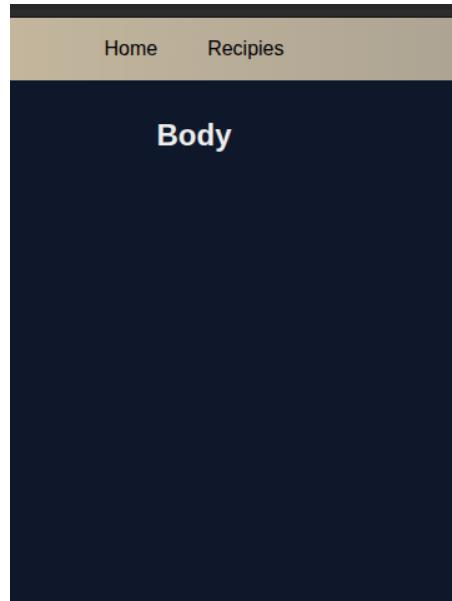


```
next-app-router
├── .next
└── app
    ├── components
    │   ├── Footer.css
    │   ├── Footer.jsx
    │   ├── Header.css
    │   ├── Header.jsx
    │   ├── Recipes
    │   └── favicon.ico
    ├── globals.css
    ├── layout.js
    ├── page.js
    ├── page.module.css
    ├── node_modules
    ├── public
    └── .gitignore
        └── eslint.config.mjs
```

```
ute4 > Exercise4 > next-app-router > app > ss page.js > Home
import styles from './page.module.css'

export default function Home() {
  return (
    <div className={styles.body}>
      <main>
        <h2>
          Body
        </h2>
      </main>
    </div>
  );
}
```

Output



Q2.) Create a Header and Footer components wrapping Homepage in “[layout.js](#)”.

A2.) NextJs Headerjs

```
Module4 > Exercise4 > next-app-router > app > components > Header.jsx > Header
1 import Link from "next/link";
2 import './Header.css'
3 export default function Header(){
4     return(
5         <div className="header">
6             <nav>
7                 <Link href="/" className="link">Home</Link>
8                 <Link href="/Recipies" className="link">Recipies</Link>
9             </nav>
10        </div>
11    );
12 }
```

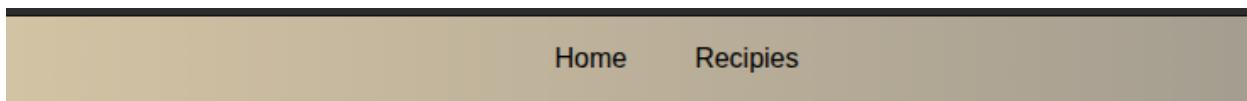
Footerjs

```
Module4 > Exercise4 > next-app-router > app > components > Footer.jsx > Footer
1 import './Footer.css'
2 export default function Footer(){
3     return(
4         <div className="footer">
5             <h3>Recipies</h3>
6             <span>The copyright of Recipies belongs to me since 2026</span>
7         </div>
8     );
9 }
```

Layoutjs

```
Module4 > Exercise4 > next-app-router > app > JS layout.js >  RootLayout
 1 import { Geist, Geist_Mono } from "next/font/google";
 2 import "./globals.css";
 3 import Header from "./components/Header";
 4 import Footer from "./components/Footer";
 5
 6 const geistSans = Geist({
 7   variable: "--font-geist-sans",
 8   subsets: ["latin"],
 9 });
10
11 const geistMono = Geist_Mono({
12   variable: "--font-geist-mono",
13   subsets: ["latin"],
14 });
15
16 export const metadata = {
17   title: "Create Next App",
18   description: "Generated by create next app",
19 };
20
21 export default function RootLayout({ children }) {
22   return (
23     <div>
24       <Header/>
25       <html lang="en">
26         <body className={`${geistSans.variable} ${geistMono.variable}`}>
27           {children}
28         </body>
29       </html>
30       <Footer/>
31     </div>
32   );
33 }
```

Output



Q3.) Create a Page “Recipies” calling API <https://dummyjson.com/recipes> and displaying 10 recipes having column “name”, “prepTimeMinutes”, “servings” and “id” in a table and should be accessible on /Recipies route.

A3.) NextJs

```
Module4 > Exercise4 > next-app-router > app > Recipies > page.jsx > Recipies
1 import '@/app/Recipies/page.css'
2 const RecipiesFetch = async (api)=>{
3     const res=await fetch(api);
4     return res.json();
5 }
6 export default async function Recipies(){
7     const {recipes}=await RecipiesFetch("https://dummyjson.com/recipes")
8     return(
9         <div className="recipies">
10             <h2>Recipies</h2>
11             <table>
12                 <thead>
13                     <tr>
14                         <th>
15                             Id
16                         </th>
17                         <th>
18                             Name
19                         </th>
20                         <th>
21                             Prep Time In Minutes
22                         </th>
23                         <th>
24                             Serving
25                         </th>
26
27                     </tr>
28                 </thead>
29                 <tbody>
30                     {recipes.slice(0,10).map(({id,name,prepTimeMinutes,servings}, i) => (
31                         <tr key={i}>
32                             <td>{id}</td>
33                             <td>{name}</td>
34                             <td>{prepTimeMinutes}</td>
35                             <td>{servings}</td>
36                         </tr>
37                     ))}
38                 </tbody>
39             </table>
40         </div>
41     )
42 }
```

Output

The screenshot shows a web application interface with a dark blue header bar. In the top left corner, there is a small circular profile picture of a person with short brown hair. To the right of the profile picture, the word "LOGGED IN" is displayed in white capital letters. On the far right of the header bar, there is a white "Logout" button. Below the header, the main content area has a light gray background. At the top center of this area, the word "RECIPES" is written in a large, bold, black sans-serif font. Directly beneath "RECIPES", there is a table with a dark blue header row and white text. The table has four columns: "ID", "NAME", "PREP TIME IN MINUTES", and "SERVING". The data rows are numbered 1 through 10, each containing a different recipe name, its preparation time, and the number of servings it yields.

ID	NAME	PREP TIME IN MINUTES	SERVING
1	Classic Margherita Pizza	20	4
2	Vegetarian Stir-Fry	15	3
3	Chocolate Chip Cookies	15	24
4	Chicken Alfredo Pasta	15	4
5	Mango Salsa Chicken	15	3
6	Quinoa Salad with Avocado	20	4
7	Tomato Basil Bruschetta	15	6
8	Beef and Broccoli Stir-Fry	20	4
9	Caprese Salad	10	2
10	Shrimp Scampi Pasta	15	3

Q4.) Create 2nd repo implemented with Page router implementation “next-page-router”. Create Header and Footer components wrapping homepage in “_app.js”.

A4.) NextJs

HeaderJs

```
Module4 > Exercise4 > next-page-router > pages > components > ⚡ Header.jsx > 📂 Header
1 import Link from "next/link";
2 import styles from './Header.module.css'
3 export default function Header(){
4     return(
5         <div className={styles.header}>
6             <nav>
7                 <Link href="/" className={styles.link}>Home</Link>
8                 <Link href="/Products" className={styles.link}>Products</Link>
9             </nav>
10        </div>
11    );
12 }
```

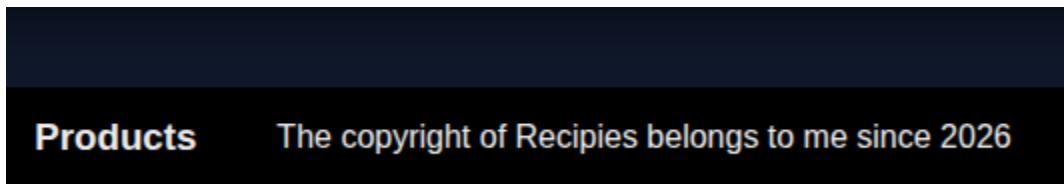
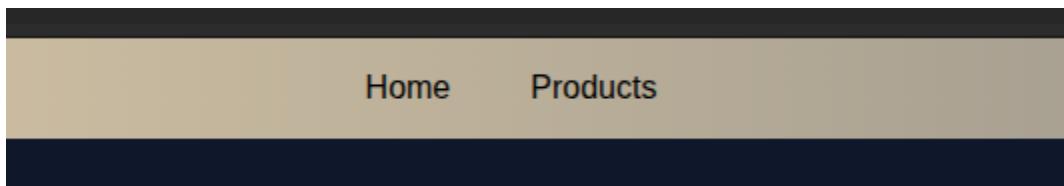
FooterJS

```
Module4 > Exercise4 > next-page-router > pages > components > ⚡ Footer.jsx > 📂 Footer
1 import styles from './Footer.module.css'
2 export default function Footer(){
3     return(
4         <div className={styles.footer}>
5             <h3>Products</h3>
6             <span>The copyright of Recipies belongs to me since 2026</span>
7         </div>
8     );
9 }
```

_app.js

```
Module4 > Exercise4 > next-page-router > pages > js _app.js > App
1 import "@/styles/globals.css";
2 import Header from "./components/Header";
3 import Footer from "./components/Footer";
4
5 export default function App({ Component, pageProps }) {
6   return (
7     <>
8       <Header/>
9       <Component {...pageProps} />
10      <Footer/>
11    </>
12  )
13}
14}
```

Output



Q5.) Create a Page “Products” calling API <https://dummyjson.com/products> and displaying 10 products having column "id","title","description","category","price" in a table and should be accessible on /Products route.

A5.) NextJs

```
Module4 > Exercise4 > next-page-router > pages > Products.jsx > Products
1  import styles from '../styles/Products.module.css'
2  export async function getServerSideProps(){
3      const res = await fetch("https://dummyjson.com/products")
4      const data = await res.json();
5      return{
6          props:{
7              products:data.products,
8          },
9      };
10 }
11
12 export default function Products({products}){
13     return(
14         <div className={styles.products}>
15             <h2>Products</h2>
16             <table>
17                 <thead>
18                     <tr>
19                         <th>Id</th>
20                         <th>Title</th>
21                         <th>Category</th>
22                         <th>Description</th>
23                         <th>Price</th>
24                     </tr>
25                 </thead>
26                 <tbody>
27                     {products.slice(0,10).map(({id,title,category,description,price},i)=>(
28                         <tr key={i}>
29                             <td>{id}</td>
30                             <td>{title}</td>
31                             <td>{category}</td>
32                             <td>{description}</td>
33                             <td>{price}</td>
34                         </tr>
35                     ))}
36                 </tbody>
37             </table>
38         </div>
39     )
40 }
```

Output

ID	TITLE	CATEGORY	DESCRIPTION	PRICE
1	Essence Mascara Lash Princess	beauty	The Essence Mascara Lash Princess is a popular mascara known for its volumizing and lengthening effects. Achieve dramatic lashes with this long-lasting and cruelty-free formula.	9.99
2	Eyeshadow Palette with Mirror	beauty	The Eyeshadow Palette with Mirror offers a versatile range of eyeshadow shades for creating stunning eye looks. With a built-in mirror, it's convenient for on-the-go makeup application.	19.99
3	Powder Canister	beauty	The Powder Canister is a finely milled setting powder designed to set makeup and control shine. With a lightweight and translucent formula, it provides a smooth and matte finish.	14.99
4	Red Lipstick	beauty	The Red Lipstick is a classic and bold choice for adding a pop of color to your lips. With a creamy and pigmented formula, it provides a vibrant and long-lasting finish.	12.99
5	Red Nail Polish	beauty	The Red Nail Polish offers a rich and glossy red hue for vibrant and polished nails. With a quick-drying formula, it provides a salon-quality finish at home.	8.99
6	Calvin Klein CK One	fragrances	CK One by Calvin Klein is a classic unisex fragrance, known for its fresh and clean scent. It's a versatile fragrance suitable for everyday wear.	49.99