



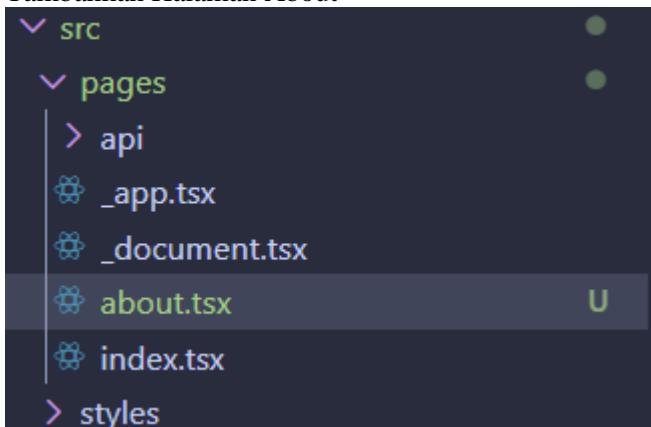
Mata Kuliah : Pemrograman Framework
Program Studi : D4 – Teknik Informatika
Semester : 6

Kelas : TI-3E
NIM : 2341720219
Nama : Satrio Wisnu Adi Pratama
Jobsheet Ke- : 3
Link Github : <https://github.com/flywithsaturn/pemrograman-berbasis-framework/tree/main/praktikum-2/next-routing>

Laporan Jobsheet

1. Routing Dasar (Static Routing)

Tambahkan Halaman About



```
└─ src
    └─ pages
        > api
        └─ _app.tsx
        └─ _document.tsx
        └─ about.tsx
        └─ index.tsx
    └─ styles
```

Uji di Browser

Ini Halaman About

About Me

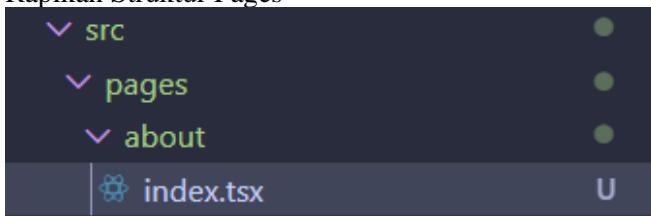
Nama Mahasiswa: Satrio Wisnu Adi Pratama

NIM: 2341720219

Program Studi: D4 Teknik Informatika

2. Routing Menggunakan Folder

Rapikan Struktur Pages



```
└─ src
    └─ pages
        └─ about
            └─ index.tsx
```

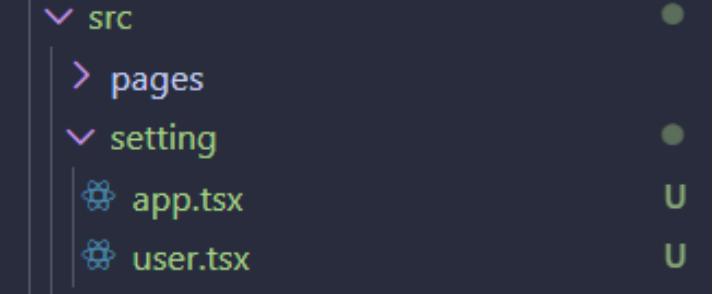
Akses dari halaman browser (tetap sama tetapi lebih rapi)





3. Nested Routing

Buat folder setting



```
praktikum-2 > next-routing > src > setting > user.tsx > [?] default
1  const UserSettingPage = () => {
2    return (
3      <div>
4        |   User Setting Page
5      </div>
6    )
7  };
8
9  export default UserSettingPage;
```

App

```
praktikum-2 > next-routing > src > setting > app.tsx > [?] default
1  const AppSetting = () => {
2    return (
3      <div>
4        |   App Setting Page
5      </div>
6    )
7  };
8
9  export default AppSetting;
```

Hasil



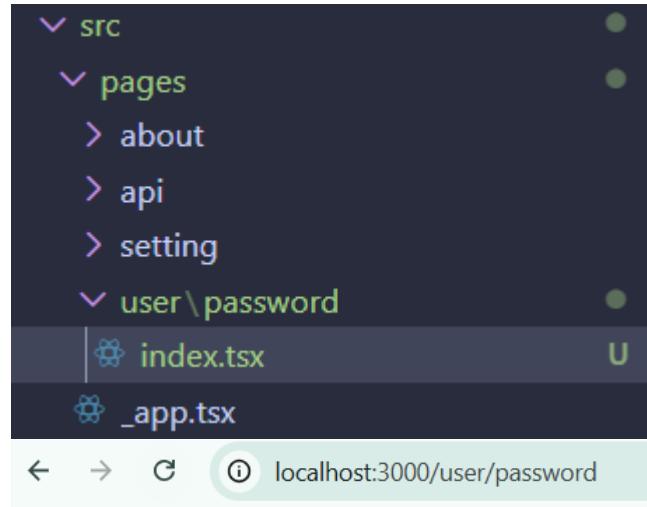
App Setting Page



User Setting Page



Nested lebih dalam



```
└── src
    └── pages
        ├── about
        ├── api
        ├── setting
        └── user\password
            ├── index.tsx
            └── _app.tsx
```

localhost:3000/user/password

User Setting Page

4. Dynamic Routing



```
praktikum-2 > next-routing > src > pages > produk > index.tsx > default
  1  const produk = () => {
  2    return (
  3      <div>
  4        |   Produk User Page
  5      </div>
  6    );
  7  };
  8
  9  export default produk;
```

```
praktikum-2 > next-routing > src > pages > produk > [id].tsx > default
  1  import {useRouter} from 'next/router';
  2
  3  const HalamanProduk = () => {
  4    const {query} = useRouter();
  5    return (
  6      <div>
  7        |   <h1>Halaman Produk</h1>
  8        |   <p>Produk: {query.id}</p>
  9      </div>
 10  );
 11
 12  export default HalamanProduk;
```

localhost:3000/produk/sepatu

Halaman Produk

Produk: sepatu



5. Membuat Komponen Navbar

```
praktikum-2 > next-routing > src > pages > components > layouts > navbar >
1  const Navbar = () => {
2    return (
3      <div className="navbar">
4        |   <div>navbar component</div>
5      </div>
6    );
7  };
8
9  export default Navbar;
```

The top screenshot shows a browser window at localhost:3000. The title bar says "localhost:3000". The main content area has a dark header with the text "navbar component" and a light-colored body with the heading "Praktikum Next.js Pages Router". Below the heading, it says "Satrio Wisnu Adi Pratama". The bottom screenshot shows a browser window at localhost:3000/produk/sepatu. The title bar says "localhost:3000/produk/sepatu". The main content area has a dark header with the heading "Halaman Produk" and a light-colored body with the text "Produk: sepatu".

6. Membuat Layout Global (App Shell)

```
src >
  components > layouts >
    Appshell >
      index.tsx
```



```
praktikum-2 > next-routing > src > components > layouts > Appshell > index.tsx >
  1 import Navbar from "../navbar";
  2
  3 type AppShellProps = {
  4   children: React.ReactNode;
  5 }
  6
  7 const AppShell = (props: AppShellProps) => {
  8   const { children } = props;
  9   return (
 10     <main>
 11       <Navbar></Navbar>
 12       {children}
 13     </main>
 14   );
 15 }
 16
 17 export default AppShell;
```

7. Implementasi Layout di _app.tsx

```
praktikum-2 > next-routing > src > pages > _app.tsx > ...
  1 import '@/styles/globals.css';
  2 import type { AppProps } from 'next/app';
  3 // import Navbar from '@/components/layouts/navbar';
  4 import AppShell from '@/components/layouts/Appshell';
  5
  6 export default function App({ Component, pageProps }: AppProps) {
  7   return (
  8     <div>
  9       <AppShell>
 10         <Component {...pageProps} />
 11       </AppShell>
 12     </div>
 13   );
 14 }
```

← → ⌂ localhost:3000

navbar component

Praktikum Next.js Pages Router

Satrio Wisnu Adi Pratama



Tugas Praktikum

1. Tugas 1 – Routing

1. Buat halaman:
 - /profile
 - /profile/edit 2
2. Pastikan routing berjalan tanpa error

```
praktikum-2 > next-routing > src > pages > profile > index.tsx > [ ] default
  1 import Link from "next/link";
  2
  3 const ProfilPage = () => {
  4   return (
  5     <div>
  6       <h1>Ini halaman profile</h1> <br />
  7       <Link href="/profile/edit_profile">Edit Profile</Link>
  8     </div>
  9   );
 10 }
 11
 12 export default ProfilPage;

praktikum-2 > next-routing > src > pages > profile > edit_profile > index.tsx > [ ] default
  1 const EditProfilePage = () => {
  2   return (
  3     <div>
  4       <h1>Ini halaman edit profile</h1>
  5     </div>
  6   );
 7 }
 8
 9 export default EditProfilePage;
```

localhost:3000/profile

navbar component

Ini halaman profile

Edit Profile

localhost:3000/profile/edit_profile

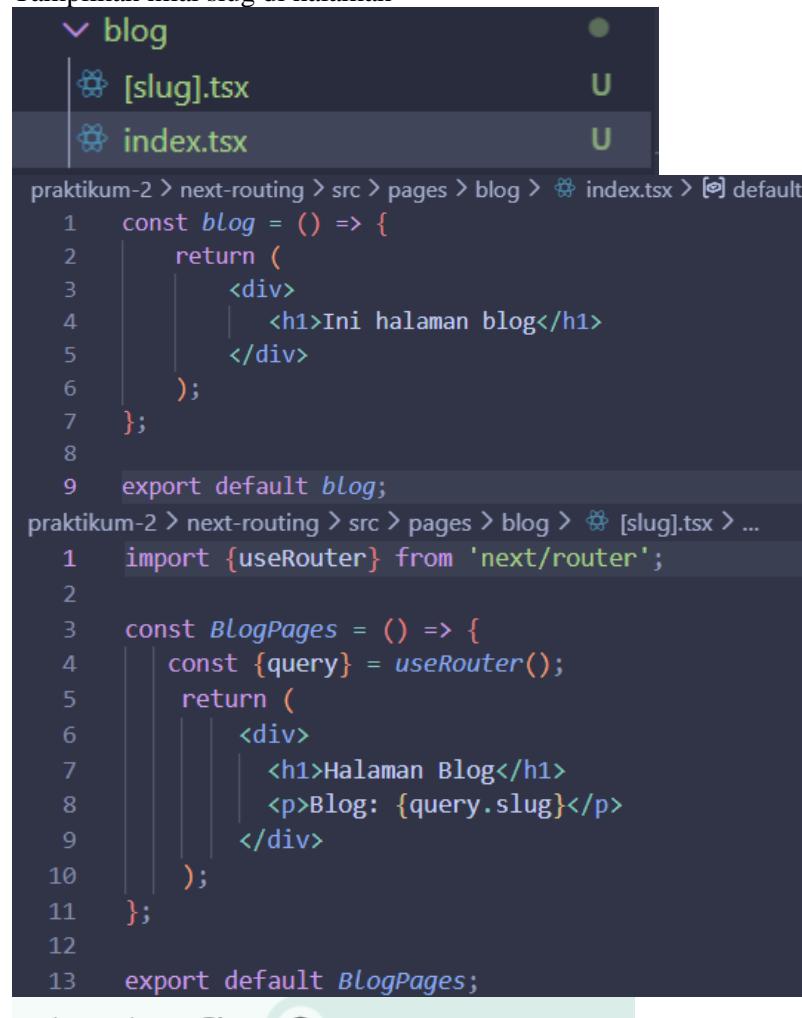
navbar component

Ini halaman edit profile

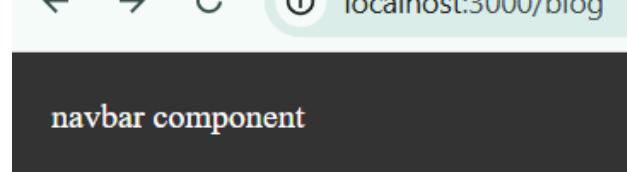


2. Tugas 2 – Dynamic Routing

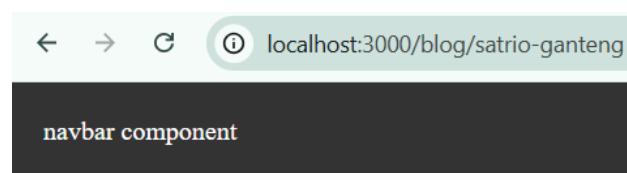
1. Buat routing:
2. /blog/[slug]
3. Tampilkan nilai slug di halaman



```
praktikum-2 > next-routing > src > pages > blog > index.tsx > [slug].tsx default
1  const blog = () => {
2    return (
3      <div>
4        <h1>Ini halaman blog</h1>
5        </div>
6    );
7  };
8
9  export default blog;
praktikum-2 > next-routing > src > pages > blog > [slug].tsx ...
1  import {useRouter} from 'next/router';
2
3  const BlogPages = () => {
4    const {query} = useRouter();
5    return (
6      <div>
7        <h1>Halaman Blog</h1>
8        <p>Blog: {query.slug}</p>
9      </div>
10 );
11 };
12
13 export default BlogPages;
```



Ini halaman blog





3. Tugas 3 – Layout

1. Tambahkan Footer pada AppShell
2. Footer tampil di semua halaman

The screenshot shows a code editor with the following structure:

- components\layouts**:
 - Appshell**:
 - index.tsx** (highlighted)
 - footer**:
 - index.tsx**
 - navbar**:
 - index.tsx**

Below the structure, the code for **index.tsx** under **Appshell** is displayed:

```
praktikum-2 > next-routing > src > components > layouts > footer > index.tsx > ...
1 const Footer = () => {
2   return(
3     <div className="footer">
4       <div>footer component</div>
5     </div>
6   );
7 }
8
9 export default Footer;
praktikum-2 > next-routing > src > components > layouts > Appshell > index.tsx >
1 import Navbar from "../navbar";
2 import Footer from "../footer";
3
4 type AppShellProps = {
5   children: React.ReactNode;
6 }
7
8 const AppShell = (props: AppShellProps) => {
9   const { children } = props;
10  return (
11    <main>
12      <Navbar></Navbar>
13      {children}
14      <Footer></Footer>
15    </main>
16  );
17 }
18
19 export default AppShell;
```

The browser address bar shows `localhost:3000`. The page content displays "navbar component" above "footer component".

Praktikum Next.js Pages Router

Satrio Wisnu Adi Pratama

footer component



Pertanyaan Refleksi

1. Apa perbedaan routing berbasis file dan routing manual?

Jawab: Routing berbasis file adalah sistem routing yang otomatis mengikuti struktur folder dan nama file. Jadi cukup buat file, route langsung terbentuk sedangkan Routing manual adalah kita harus menuliskan sendiri satu per satu alamat (route) di dalam kode.

2. Mengapa dynamic routing penting dalam aplikasi web?

Jawab: Dynamic routing penting karena bisa menampilkan halaman berbeda berdasarkan data atau parameter tertentu, misalnya halaman detail produk berdasarkan ID. Jadi tidak perlu membuat halaman satu per satu secara manual.

3. Apa keuntungan menggunakan layout global dibanding memanggil komponen satu per satu?

Jawab: Layout global membuat tampilan seperti header dan footer cukup dibuat sekali dan otomatis dipakai di semua halaman. Lebih rapi, hemat kode, dan mudah dikelola.

Kesimpulan

Melalui praktikum ini, mahasiswa telah memahami bahwa Next.js Pages Router:

- Menghemat waktu konfigurasi routing
- Mendukung nested dan dynamic routing secara natural
- Memudahkan pengelolaan layout global menggunakan _app.tsx