

**JOBSHEET 01**

**SETUP PROJECT NEXT.JS MENGGUNAKAN PAGES ROUTER**

**PEMOGRAMAN BERBASIS FRAMEWORK**



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**TI-3E / 19**

**TEKNOLOGI INFORMASI**

## D. Langkah Kerja Praktikum

### Langkah 1 - Pengecekan Lingkungan

1. Buka terminal / command prompt.
2. Jalankan perintah berikut:
3. `node -v`
4. `npm -v`
5. `Git -V`

```
PS D:\2026-Ganjil> cd PemogramanFramework
PS D:\2026-Ganjil\PemogramanFramework> cd Code
PS D:\2026-Ganjil\PemogramanFramework\Code> node -v v20.11.1
● PS D:\2026-Ganjil\PemogramanFramework\Code> npm -v
10.2.4
● PS D:\2026-Ganjil\PemogramanFramework\Code> git -v
git version 2.52.0.windows.1
```

### Langkah 2 – Membuat Project Next.js

1. Buat direktori baru dan masuk ke direktori kerja

```
● PS D:\2026-Ganjil\PemogramanFramework\Code> mkdir praktikum
```

```
Directory: D:\2026-Ganjil\PemogramanFramework\C
ode
```

Mode	LastWriteTime	Length	Name
----	-----	-----	-
d-----	17/02/2026	00.01	praktikum

2. Jalankan perintah:

```

PS D:\2026-Ganjil\PemogramanFramework\Code\praktikum> npx create-next-app@13.4.7

Installing dependencies:
- react
- react-dom
- next
- typescript
- @types/react
- @types/node
- @types/react-dom
- eslint
- eslint-config-next

added 338 packages, and audited 339 packages in 2m

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

found 0 vulnerabilities
Initialized a git repository.

Success! Created my-app at D:\2026-Ganjil\PemogramanFramework\Code\praktikum\my-app

A new version of `create-next-app` is available!
You can update by running: npm i -g create-next-app

npm notice
npm notice New major version of npm available! 10.2.4 -> 11.10.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.10.0
npm notice Run npm install -g npm@11.10.0 to update!
npm notice

```

3. Kita menggunakan versi 13.4.7 bukan yang latest (npx create-next-app@latest nextjs-pagesrouter) dan Tunggu hingga proses instalasi selesai.
4. Masuk ke folder projectnya

```

PS D:\2026-Ganjil\PemogramanFramework\Code\praktikum> cd .\my-app\
PS D:\2026-Ganjil\PemogramanFramework\Code\praktikum\my-app>

```

### Langkah 3 – Menjalankan Server Development

1. Masuk ke folder project:

```

PS D:\2026-Ganjil\PemogramanFramework\Code\praktikum> cd .\my-app\
PS D:\2026-Ganjil\PemogramanFramework\Code\praktikum\my-app>

```

2. Jalankan aplikasi:  
**npm run dev**

```
PS D:\2026-Ganjil\PemogramanFramework\Code\praktikum\my-app> npm run dev

> my-app@0.1.0 dev
> next dev

▲ Next.js 16.1.6 (Turbopack)
- Local:      http://localhost:3000
- Network:    http://192.168.80.1:3000

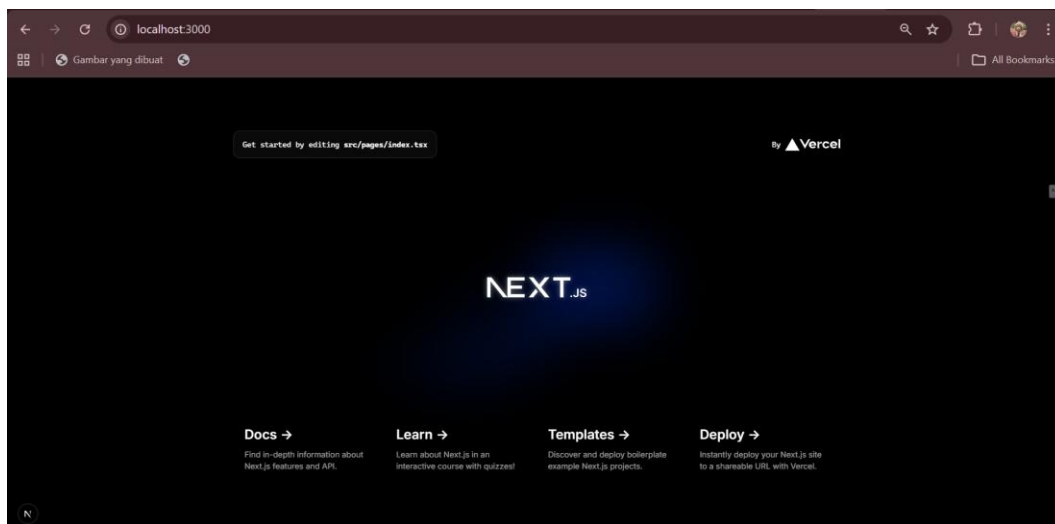
✓ Starting...
Attention: Next.js now collects completely anonymous telemetry regarding usage.
This information is used to shape Next.js' roadmap and prioritize features.
You can learn more, including how to opt-out if you'd not like to participate in this a
nonymous program, by visiting the following URL:
https://nextjs.org/telemetry

We detected TypeScript in your project and reconfigured your tsconfig.json file for y
ou.
The following mandatory changes were made to your tsconfig.json:

  - jsx was set to react-jsx (next.js uses the React automatic runtime)

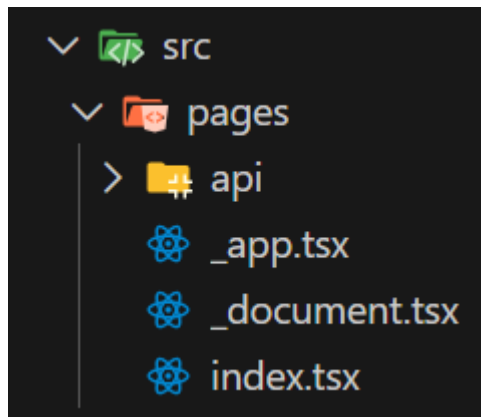
✓ Ready in 712ms
```

3. Buka browser dan akses: <http://localhost:3000>

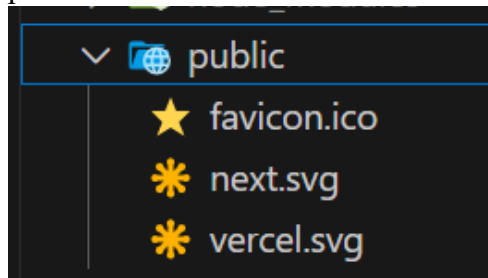


## Langkah 4 – Mengenal Struktur Folder

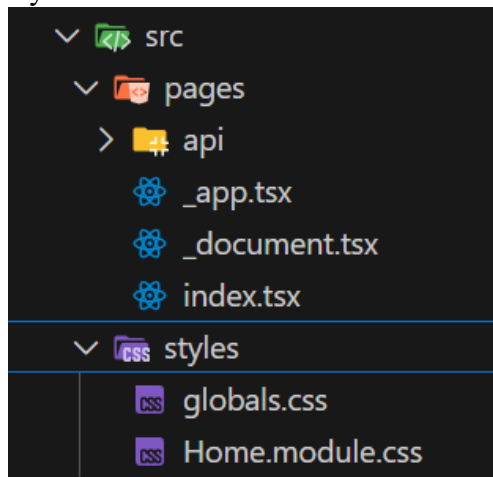
- Amati folder utama:
  - pages/ → tempat routing halaman



- public/ → aset statis



- styles/ → file CSS



- package.json → konfigurasi project

```

1  {
2    "name": "my-app",
3    "version": "0.1.0",
4    "private": true,
5    "scripts": {
6      "dev": "next dev",
7      "build": "next build",
8      "start": "next start",
9      "lint": "next lint"
10   },
11   "dependencies": {
12     "@types/node": "25.2.3",
13     "@types/react": "19.2.14",
14     "@types/react-dom": "19.2.3",
15     "eslint": "9.39.2",
16     "eslint-config-next": "16.1.6",
17     "next": "16.1.6",
18     "react": "19.2.4",
19     "react-dom": "19.2.4",
20     "typescript": "5.9.3"
21   }
22 }
23

```

- gitIgnore -> file konfigurasi di Git yang berfungsi untuk memberitahu Git file atau folder apa saja yang TIDAK perlu di-track / di-commit ke repository.

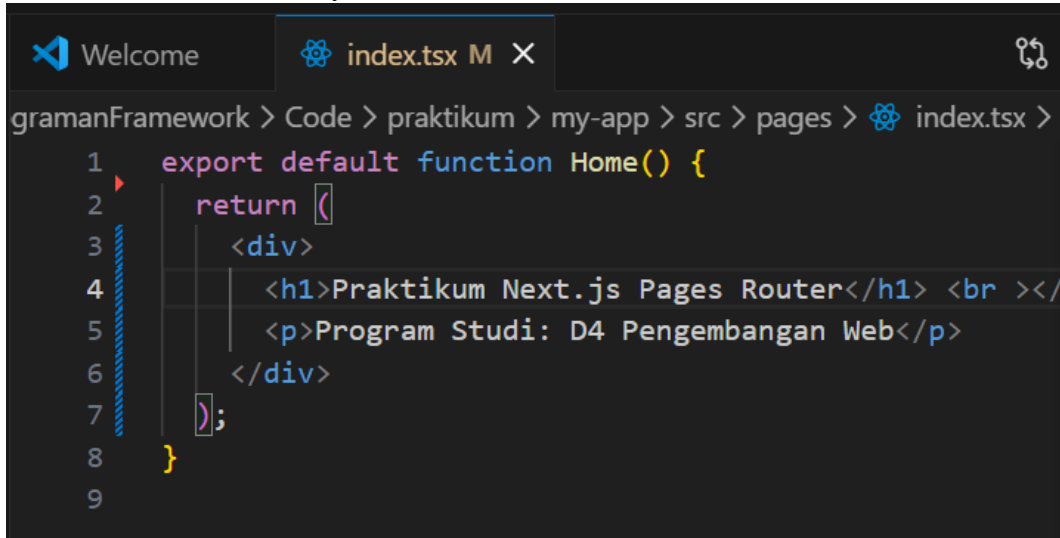
```

1  # See https://help.github.com/articles/ignoring-files/ for more about ignoring files.
2
3  # dependencies
4  /node_modules
5  /.pnp
6  .pnp.js
7
8  # testing
9  /coverage
10
11 # next.js
12 /.next/
13 /out/
14
15 # production
16 /build
17
18 # misc
19 .DS_Store
20 *.pem
21
22 # debug
23 npm-debug.log*
24 yarn-debug.log*
25 yarn-error.log*
26
27 # local env files
28 .env*.local
29
30 # vercel
31 .vercel
32
33 # typescript
34 *.tsbuildinfo
35 next-env.d.ts
36

```

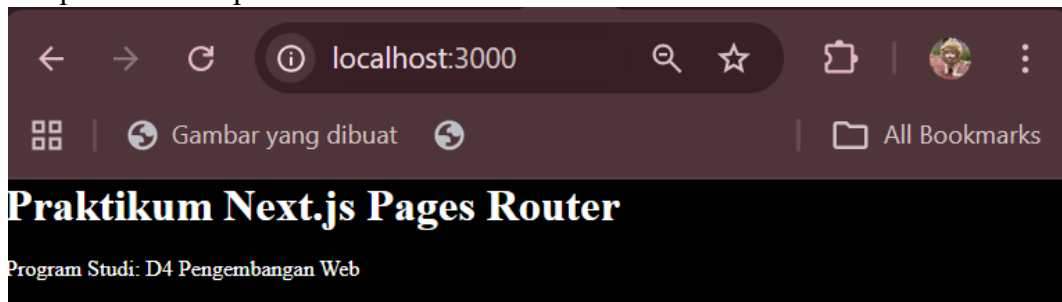
## Langkah 5 – Modifikasi Halaman Utama

1. Buka file:
2. pages/index.js
3. Ubah isi halaman, misalnya:



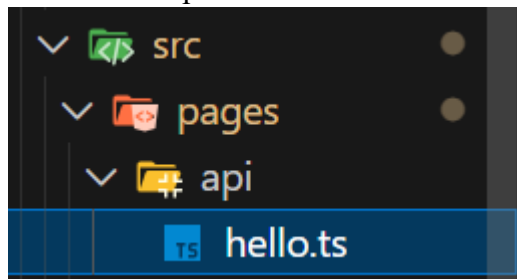
```
1 export default function Home() {
2   return (
3     <div>
4       <h1>Praktikum Next.js Pages Router</h1> <br> </
5       <p>Program Studi: D4 Pengembangan Web</p>
6     </div>
7   );
8 }
9
```

4. Simpan dan lihat perubahan di browser



## Langkah 6 – Modifikasi API

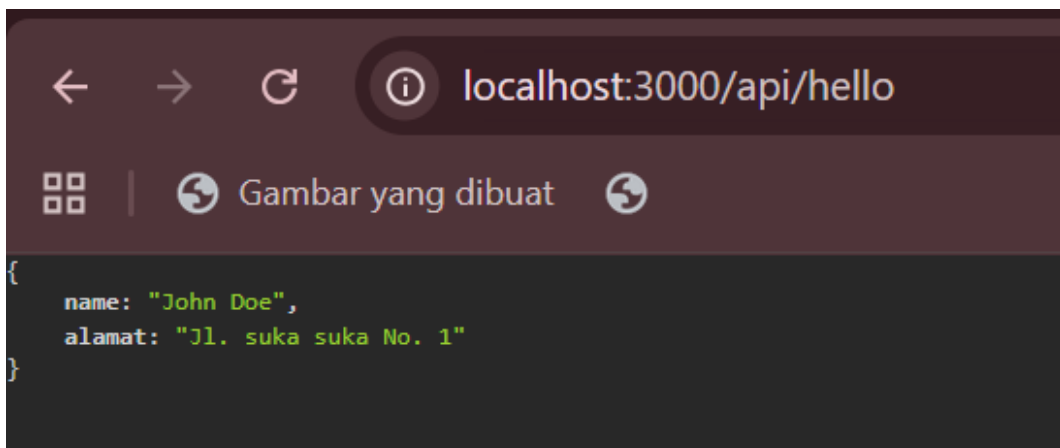
1. Buka folder api



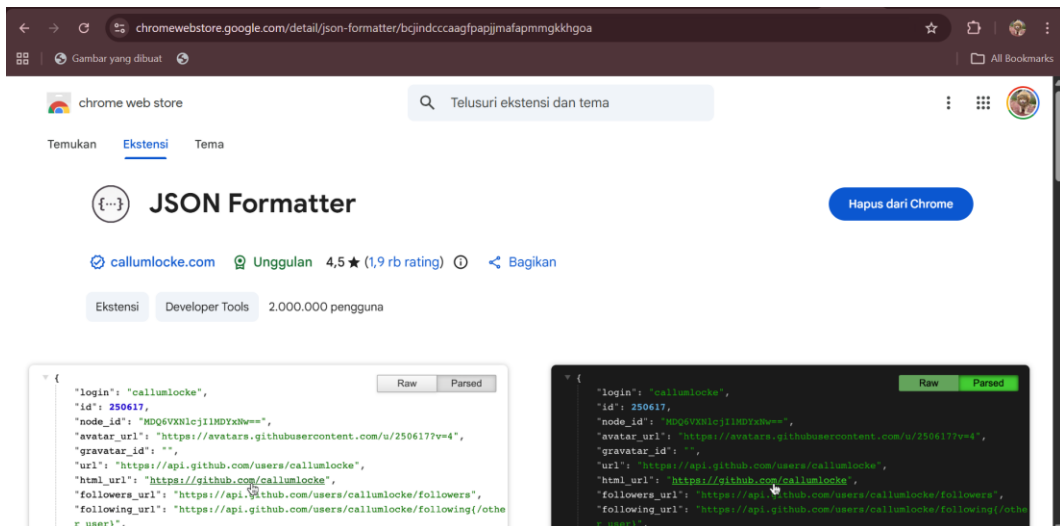
2. Modifikasi hello.ts

```
1 // Next.js API route support: https://nextjs.org/docs/api-routes/introduction
2 import type { NextApiResponse, NextApiRequest } from 'next'
3
4 type Data = {
5   name: string
6   alamat: string
7 }
8
9 export default function handler(
10   req: NextApiRequest,
11   res: NextApiResponse<Data>
12 ) {
13   res.status(200).json({ name: 'John Doe', alamat: 'Jl. suka suka No. 1' })
14 }
15
```

3. Jalankan browser dengan Alamat <http://localhost:3000/api/hello>



4. Tambahkan extensions chrome



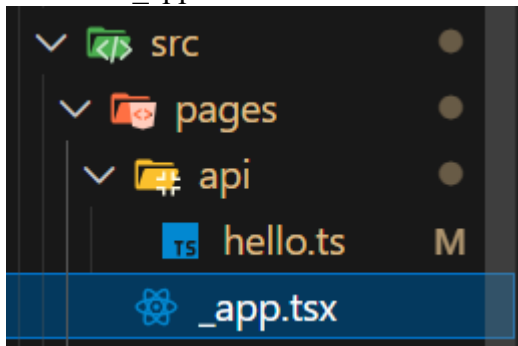
5. Jalankan browser chrome



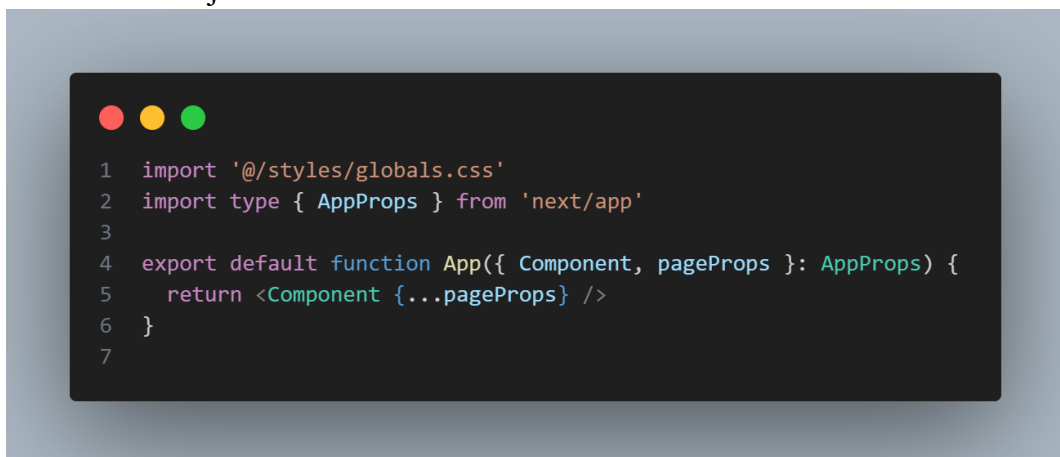


## Langkah 7 – Modifikasi Background

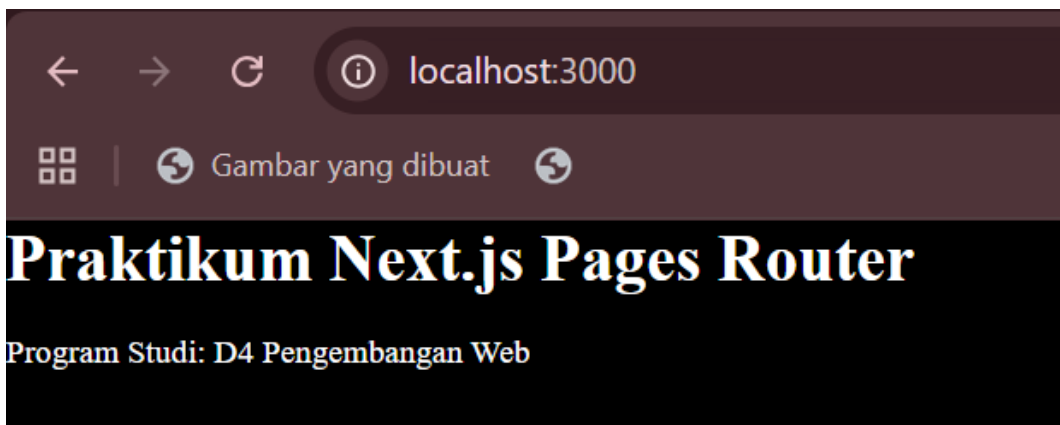
1. Buka file `_app.tsx`



2. Modifikasi menjadi berikut



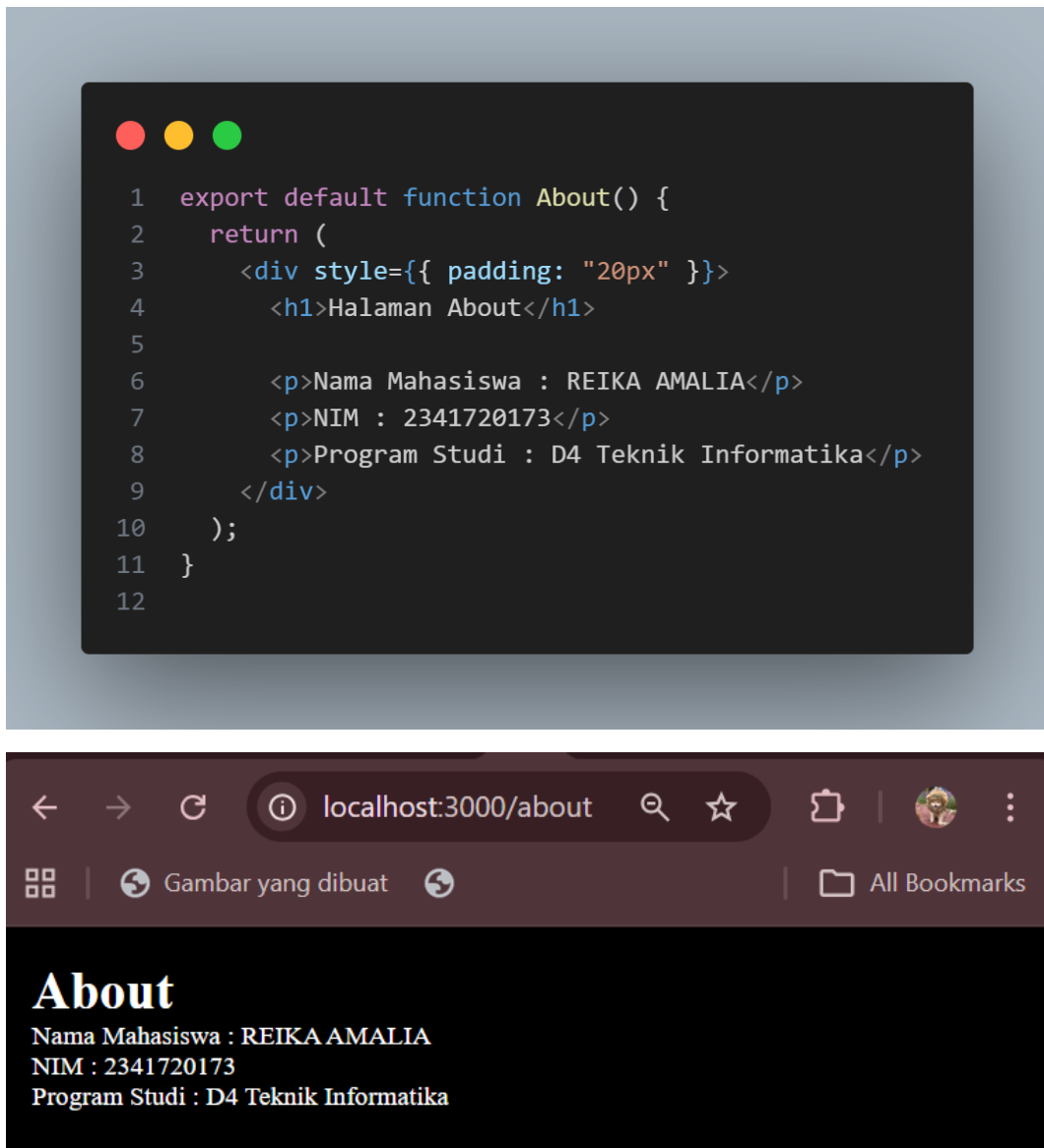
3. Jalankan localhost



## 1. Tugas Praktikum

### Tugas 1 (Wajib)

- Buat halaman baru about.js di folder pages.
- Tampilkan:
  - o Nama Mahasiswa
  - o NIM
  - o Program Studi

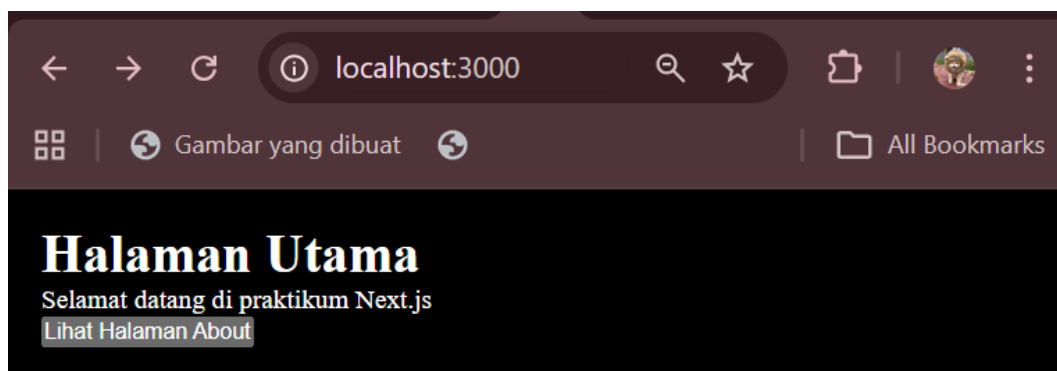


### Tugas 2 (Pengayaan)

- Tambahkan minimal 1 link navigasi dari halaman utama ke halaman about.



```
1  import Link from "next/link";
2
3  export default function Home() {
4    return (
5      <div style={{ padding: "20px" }}>
6        <h1>Halaman Utama</h1>
7
8        <p>Selamat datang di praktikum Next.js</p>
9
10       <Link href="/about">
11         <button>Lihat Halaman About</button>
12       </Link>
13     </div>
14   );
15 }
16
```



## F. Pertanyaan Refleksi

- 1) Mengapa Pages Router disebut sebagai routing berbasis file?
  - Karena di Next.js kita tidak bikin routing manual seperti pakai react-router. Cukup buat file di folder pages, otomatis jadi alamat URL. Misal pages/about.tsx langsung bisa diakses ke /about. Jadi struktur folder = struktur halaman web.
- 2) Apa perbedaan Next.js dengan React standar (CRA)?
  - Kalau React biasa (Create React App) kita harus pasang banyak library sendiri, misalnya routing, SEO, optimasi, dll. Sedangkan Next.js sudah nyediain bawaan seperti routing otomatis, server-side rendering, dan performa lebih bagus. Next.js itu React yang sudah “siap pakai” buat web production.
- 3) Apa fungsi perintah npm run dev?

- Untuk menjalankan project dalam mode development. Jadi kita bisa lihat website di localhost, dan setiap ada perubahan kode langsung update otomatis tanpa perlu refresh manual.
- 4) Apa perbedaan npm run dev dan run build ?
- npm run dev dipakai saat ngoding (masih proses bikin, ada hot reload).
  - npm run build dipakai kalau project sudah selesai dan mau disiapkan ke versi production supaya lebih cepat dan optimal.