



Mata Kuliah : Pemrograman Framework
Program Studi : D4 – Teknik Informatika
Semester : 4

Kelas : TI-3C
NIM : 2341720165
Nama : Fandy Wahyu Hanzura
Jobsheet Ke- : 1

Laporan Jobsheet

Praktikum 1

1.

```
(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan01]
$ sudo node -v
v20.19.5
(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan01]
$ sudo npm -v
9.2.0
(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan01]
$ sudo git -v
git version 2.51.0
(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan01]
$
```

- Melakukan pengecekan versi untuk node dan npm dan git



2.

```
(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan02]
$ npx create-next-app@13.4.7
Need to install the following packages:
  create-next-app@13.4.7
Ok to proceed? (y) y
✓ What is your project named? .. my-app
✓ Would you like to use TypeScript with this project? .. No / Yes
✓ Would you like to use ESLint with this project? .. No / Yes
✓ Would you like to use Tailwind CSS with this project? .. No / Yes
✓ Would you like to use `src/` directory with this project? .. No / Yes
✓ Use App Router (recommended)? .. No / Yes
✓ Would you like to customize the default import alias? .. No / Yes
Creating a new Next.js app in /home/fandy/Desktop/Downloads/git/PemrogramanFramework/pertemuan02/my-app.

Using npm.

Initializing project with template: default

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

added 345 packages, and audited 346 packages in 1m
141 packages are looking for funding
  run `npm fund` for details
10 moderate severity vulnerabilities

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
Success! Created my-app at /home/fandy/Desktop/Downloads/git/PemrogramanFramework/pertemuan02/my-app

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

(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan02]
$ cd my-app/

(fandy@kali)-[~/Desktop/Downloads/git/PemrogramanFramework/pertemuan02/my-app]
$ code .
```

- Melakukan pembuatan proyek dan masuk ke dalam vs code



```
(fandy@kali) - [~/Desktop/Downloads/git/PemrogramanFramework/pertemuan02/my-app]
$ npm run dev
> next dev

▲ Next.js 16.1.6 (Turbopack)
- Local:      http://localhost:3000
- Network:    http://192.168.70.18:3000

✓ 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
anonymous program, by visiting the following URL:
https://nextjs.org/telemetry

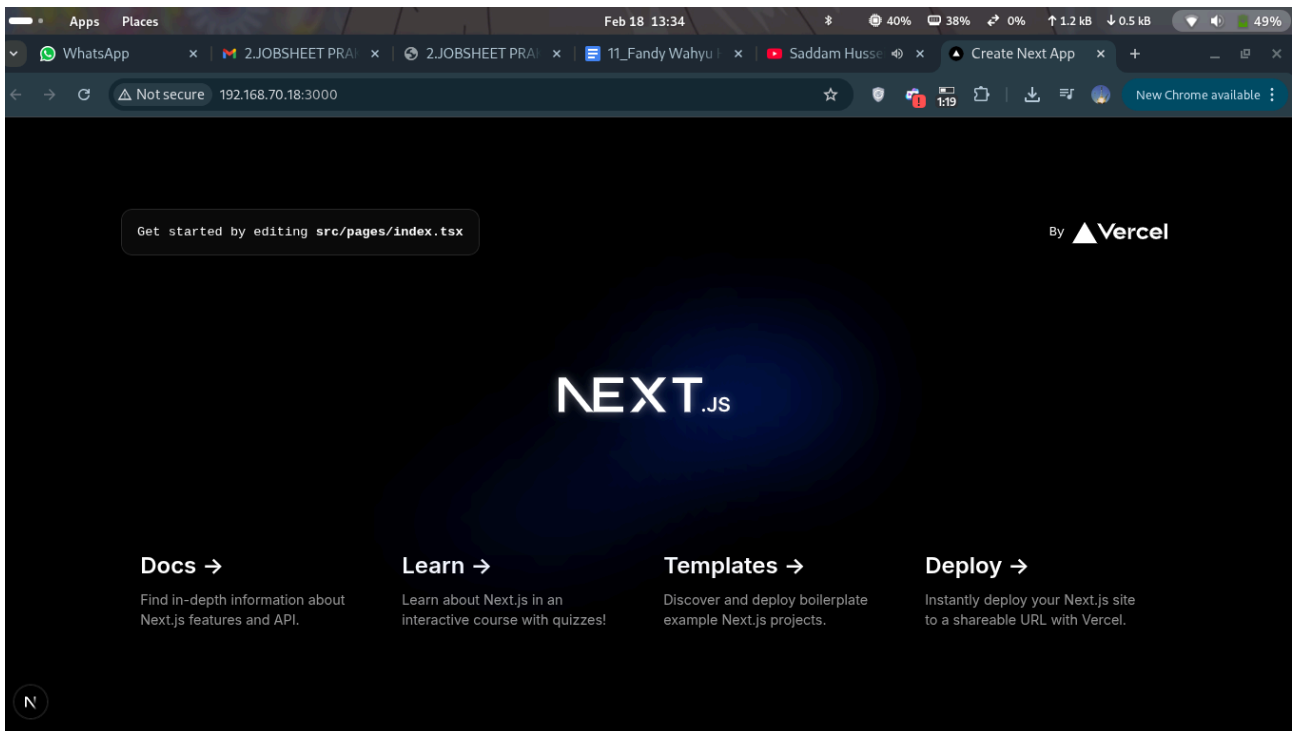
We detected TypeScript in your project and reconfigured your tsconfig.json file for
you.
The following mandatory changes were made to your tsconfig.json:

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

✓ Ready in 1324ms
```

3.

- Melakukan start server menggunakan npm



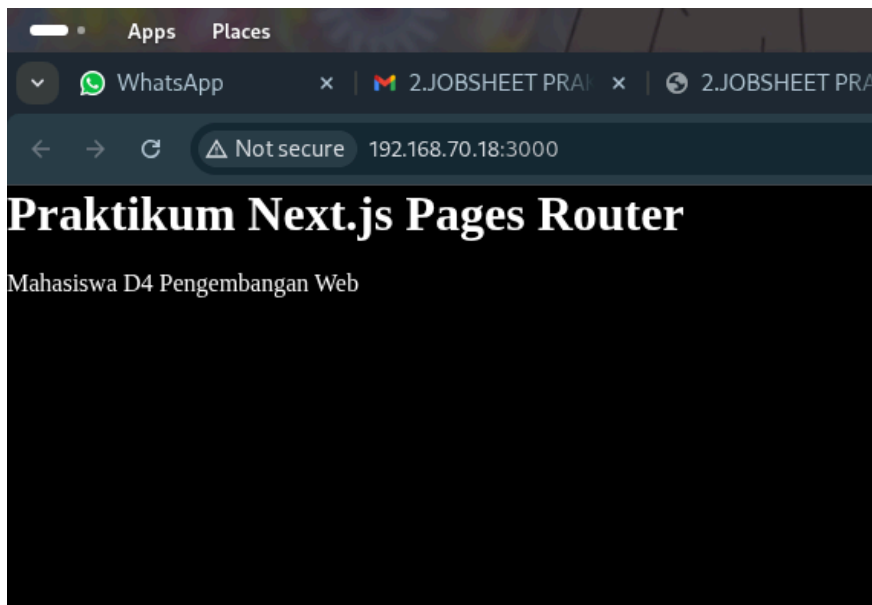
4.

- Halaman dari website port 3000



```
index.tsx X
src > pages > index.tsx > Home
1  import Head from 'next/head'
2  import Image from 'next/image'
3  import { Inter } from 'next/font/google'
4  import styles from '@styles/Home.module.css'
5
6  const inter = Inter({ subsets: ['latin'] })
7
8  export default function Home() {
9    return (
10     <div>
11       <h1>Praktikum Next.js Pages Router</h1> <br />
12       <p>Mahasiswa D4 Pengembangan Web</p>
13     </div>
14   )
15 }
16
```

5.

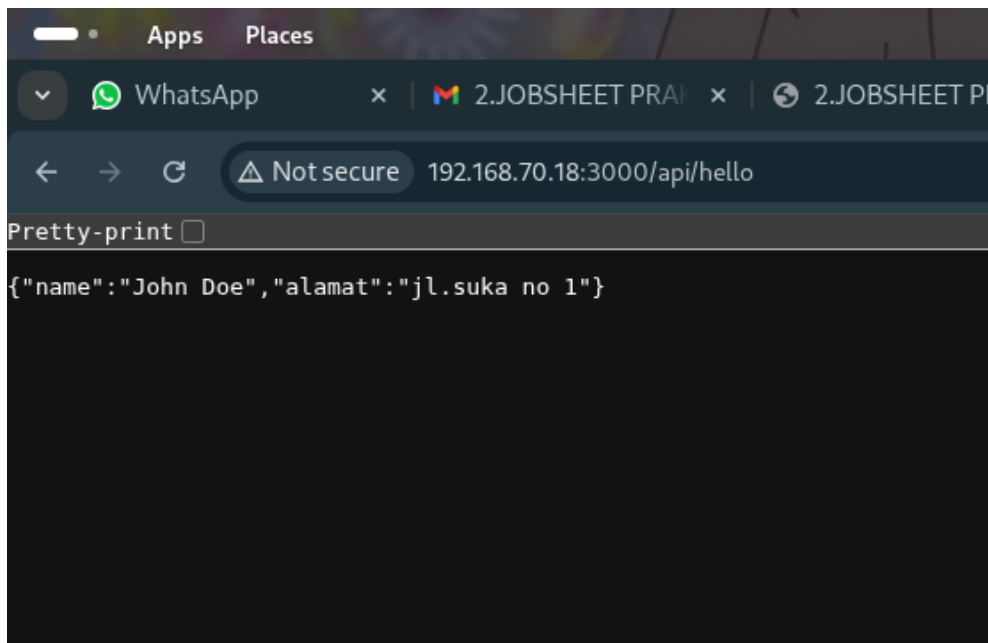


- Melakukan perubahan halaman pertama pada template



```
index.tsx  ts hello.ts  x
src > pages > api > ts hello.ts > handler > alamat
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 no 1'})
14 }
15
```

6.

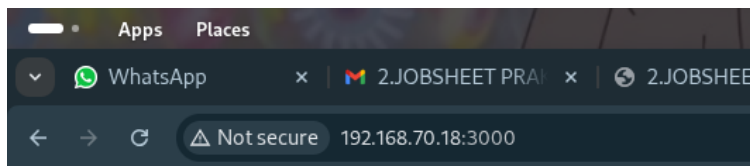


- Melakukan editing pada file hello.tsx pada folder api



7.

```
src > pages > _app.tsx > ...
1  // import '@styles/globals.css'
2  import type { AppProps } from 'next/app'
3
4  export default function App({ Component, pageProps }: AppProps) {
5    return <Component {...pageProps} />
6  }
7
```



Praktikum Next.js Pages Router

Mahasiswa D4 Pengembangan Web

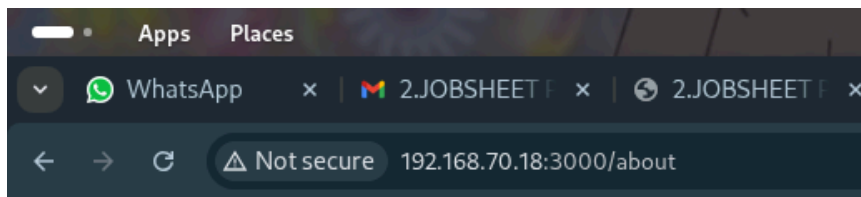
- Melakukan editing pada file `_app.tsx` dengan melakukan command `library`

Tugas Praktikum



```
index.tsx  about.tsx  TS hello.ts  _app.tsx  Extension: ES
src > pages > about.tsx > Home
1  import Head from 'next/head'
2  import Image from 'next/image'
3  import { Inter } from 'next/font/google'
4  import styles from '@styles/Home.module.css'
5
6  const inter = Inter({ subsets: ['latin'] })
7
8  export default function Home() {
9    return (
10     <div>
11       <p>Nama: Fandy Wahyu Hanzura</p> <br />
12       <p>NIM: 2341720165</p> <br />
13       <p>Program Studi: D4 Teknik Informatika</p>
14     </div>
15   )
16 }
17
```

1.



Nama: Fandy Wahyu Hanzura

NIM: 2341720165

Program Studi: D4 Teknik Informatika

- **Membuat halaman baru yakni about.tsx**



```
index.tsx × about.tsx TS hello.ts _app.tsx Extensi
src > pages > index.tsx > ...
1  import Head from 'next/head'
2  import Image from 'next/image'
3  import { Inter } from 'next/font/google'
4  import styles from '@styles/Home.module.css'
5
6  const inter = Inter({ subsets: ['latin'] })
7
8  export default function Home() {
9    return (
10     <div>
11       <h1>Praktikum Next.js Pages Router</h1> <br />
12       <p>Mahasiswa D4 Pengembangan Web</p> <br />
13       <button><a href="about"> about me</a></button>
14     </div>
15   )
16 }
17
```

2.



Praktikum Next.js Pages Router

Mahasiswa D4 Pengembangan Web

[about me](#)

- Membuat link ke dalam website about

Pertanyaan refleksi

1. Mengapa Pages Router disebut sebagai routing berbasis file?

- Karena dengan langsung membuat file an mengarahkan halaman yang dimaksud sebagai contoh halaman about tanpa harus mengatur routing

2. Apa perbedaan Next.js dengan React standar (CRA)?

- Perbedaan yang paling utama adalah React adalah framework dalam membangun ui sedang kan next js adalah framework lengkap dalam membangun sebuah website lalu juga untuk next js bekerja dengan



mengirimkan hasil ke web browser secara langsung sedangkan pada react bekerja pada sisi client saja.

3. Apa fungsi perintah npm run dev?

- npm run dev digunakan untuk menyalakan server development atau localhost biasanya pada port 3000

4. Apa perbedaan npm run dev dan run build ?

- pada npm run dev digunakan sebagai website pengembangan jika run build digunakan sebagai pen deployan final yakni tahap akhir