

**LAPORAN HASIL Pengerjaan  
Jobsheet 2 Pemrograman Berbasis Framework**



**Oleh :**

**Dwityantherrys Bakti Utomo  
1941720033**

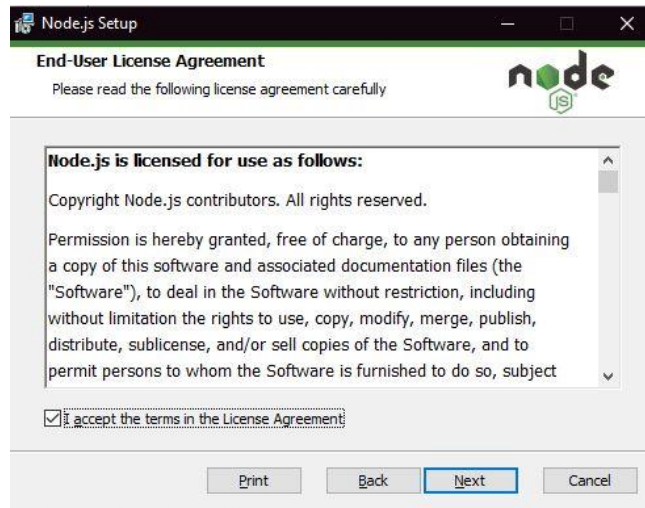
**MATA KULIAH BUSINESS INTELLIGENCE  
PROGRAM STUDI TEKNIK INFORMATIKA  
JURUSAN TEKNOLOGI INFORMASI  
POLITEKNIK NEGERI MALANG  
2021/2022**

## Instalasi Node.js

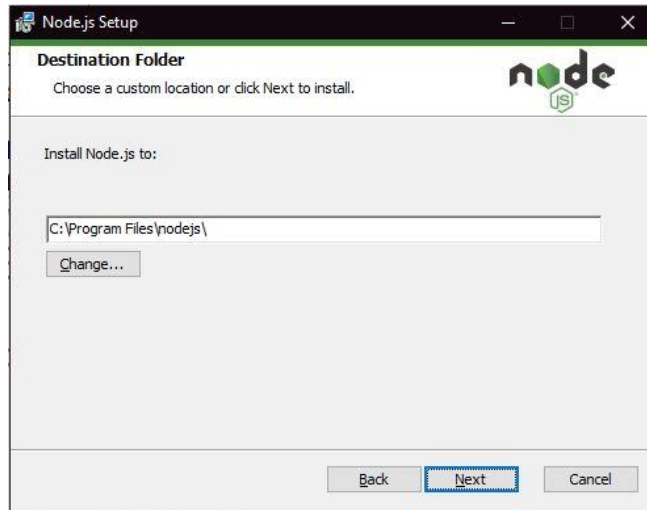
Langkah-langkah instalasi :



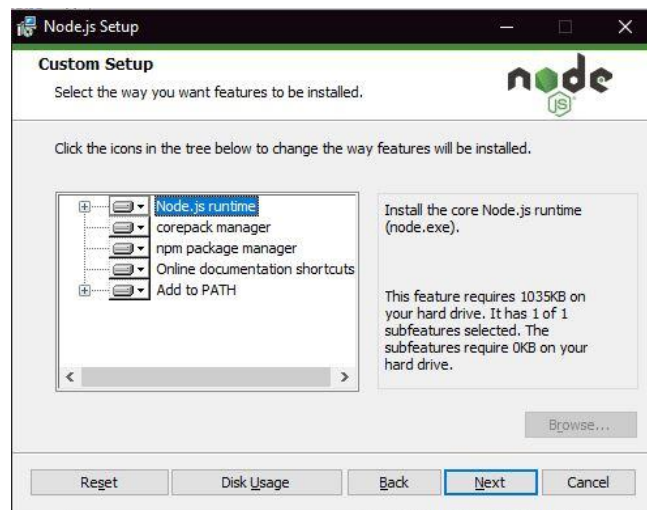
*Gambar 1 klik next pada tampilan instalasi*



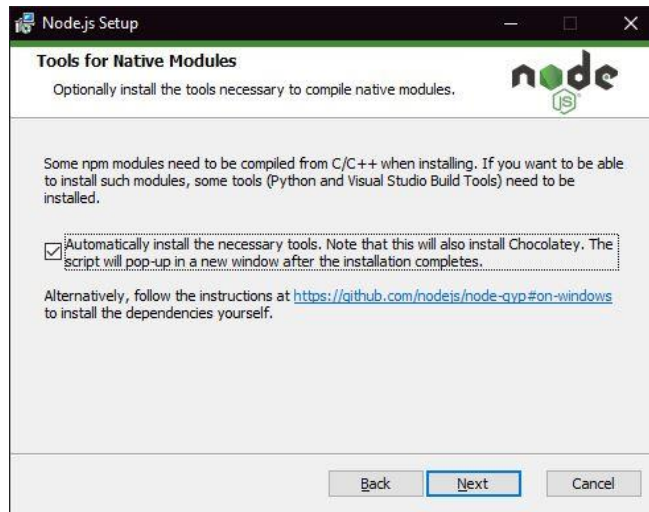
*Gambar 2 Centang pada Acc terms lalu next*



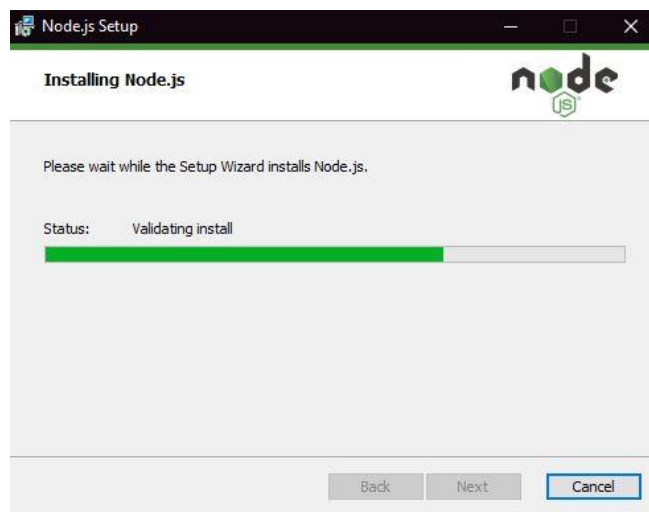
*Gambar 3 Pilih lokasi instalasi*



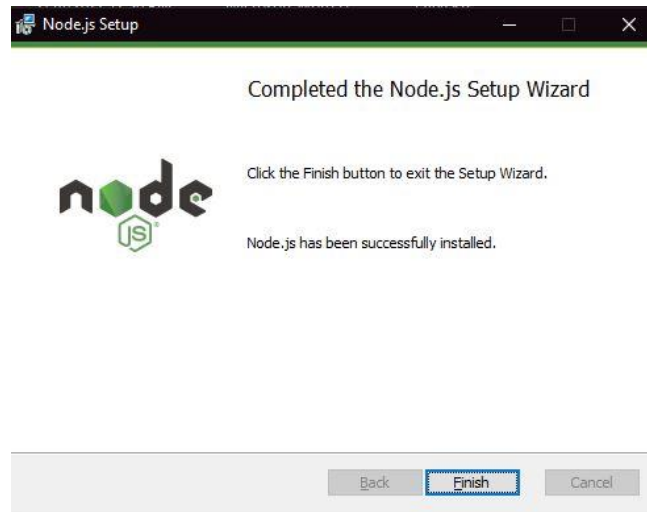
*Gambar 4 Next saja untuk fitur default*



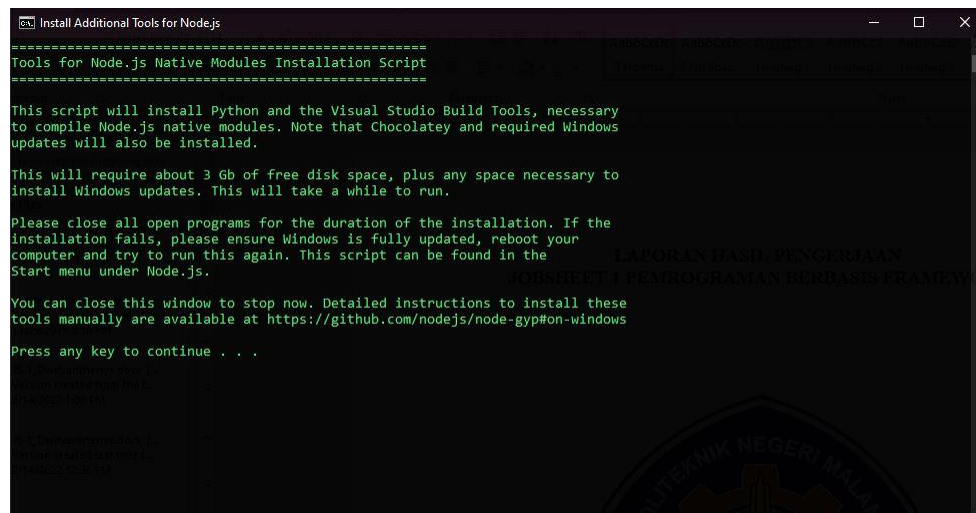
*Gambar 5 centang pada auto install tools*



*Gambar 6 tunggu proses selesai*



*Gambar 7 proses selesai*



*Gambar 8 muncul cmd dan enter*

```
Administrator: Windows PowerShell
KB3033929 v1.0.5 [Approved]
kb3033929 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB3033929 does not apply to this operating system (Microsoft Windows 10 Pro).
The upgrade of kb3033929 was successful.
Software install location not explicitly set, it could be in package or
default install location of installer.

KB2919442 v1.0.20160915 [Approved]
kb2919442 package files upgrade completed. Performing other installation steps.
Skipping installation because this hotfix only applies to Windows 8.1 and Windows Server 2012 R2.
The upgrade of kb2919442 was successful.
Software install location not explicitly set, it could be in package or
default install location of installer.

KB2919355 v1.0.20160915 [Approved]
kb2919355 package files upgrade completed. Performing other installation steps.
Skipping installation because this hotfix only applies to Windows 8.1 and Windows Server 2012 R2.
The upgrade of kb2919355 was successful.
Software install location not explicitly set, it could be in package or
default install location of installer.

KB2999226 v1.0.20181019 [Approved] - Possibly broken
kb2999226 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB2999226 does not apply to this operating system (Microsoft Windows 10 Pro).
The upgrade of kb2999226 was successful.
Software install location not explicitly set, it could be in package or
default install location of installer.

vcredist140 v14.31.31103 [Approved]
vcredist140 package files upgrade completed. Performing other installation steps.
Downloading vcredist140-x86
From 'https://download.visualstudio.microsoft.com/download/pr/144a5711-f076-44fa-bf55-f7e0121eb30c/B7AE307237F869E09F7413691A2CD194435785CE28049C0A0B3430847883ED5/VC_redist.x86.exe'
Progress: 100% - Completed download of C:\Users\Ndogh\AppData\Local\Temp\chocolatey\vcredist140\14.31.31103\VC_redist.x86.exe (13.09 MB).
Download of VC_redist.x86.exe (13.09 MB) completed.
Hashes match.
Installing vcredist140-x86...
vcredist140-x86 has been installed.
Downloading vcredist140-x64 64 bit
From 'https://download.visualstudio.microsoft.com/download/pr/d22ecb93-6eab-4ce1-89f3-97a816c55f04/37ED59A66699C0E5A7EBEEF7352D7C1C2ED5EDE7212950A1B0A8EE289AF4A95B/VC_redist.x64.exe'
Progress: 2% - Saving 639.99 KB of 24.14 MB
```

Gambar 9 Tunggu semua instalasi selesai

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19043.1021]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ndogh>node -v
'node -v' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Ndogh>node -v
v16.14.0

C:\Users\Ndogh>npm -v
8.3.1

C:\Users\Ndogh>
```

Langkah 3 - Verifikasi Instalasi

Buka command prompt atau Powershell, dan masukkan perintah berikut ini :

node -v

Sistem akan menampilkan versi Node.js yang diinstal pada sistem Anda. Anda dapat melakukan hal yang sama untuk NPM.

npm -v

B. Menambahkan React pada website

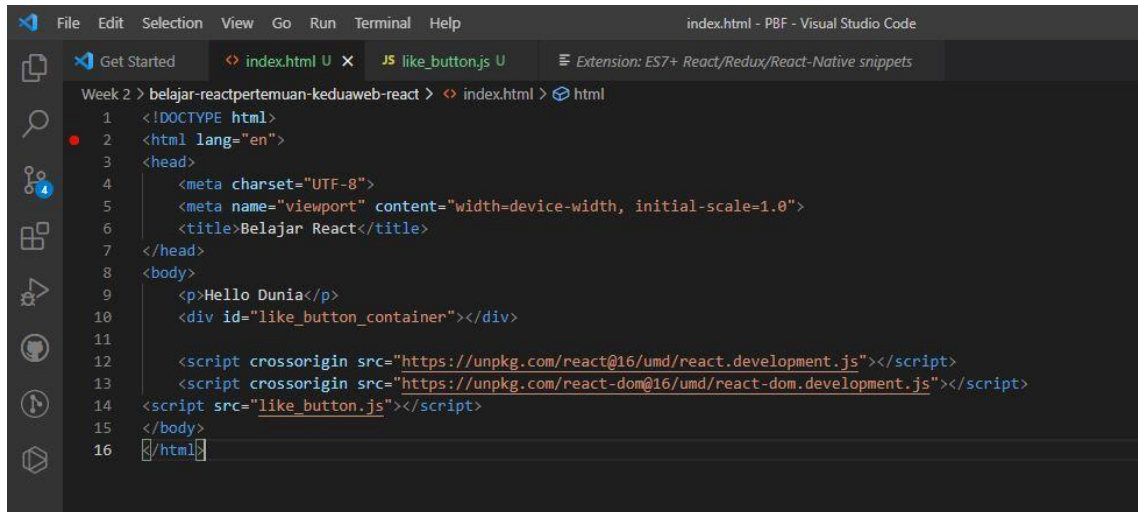
Sebelum menggunakan CLI kita juga dapat menambahkan react pada website

Langkahnya sebagai berikut

Gambar 10 Cek install sukses atau tidak

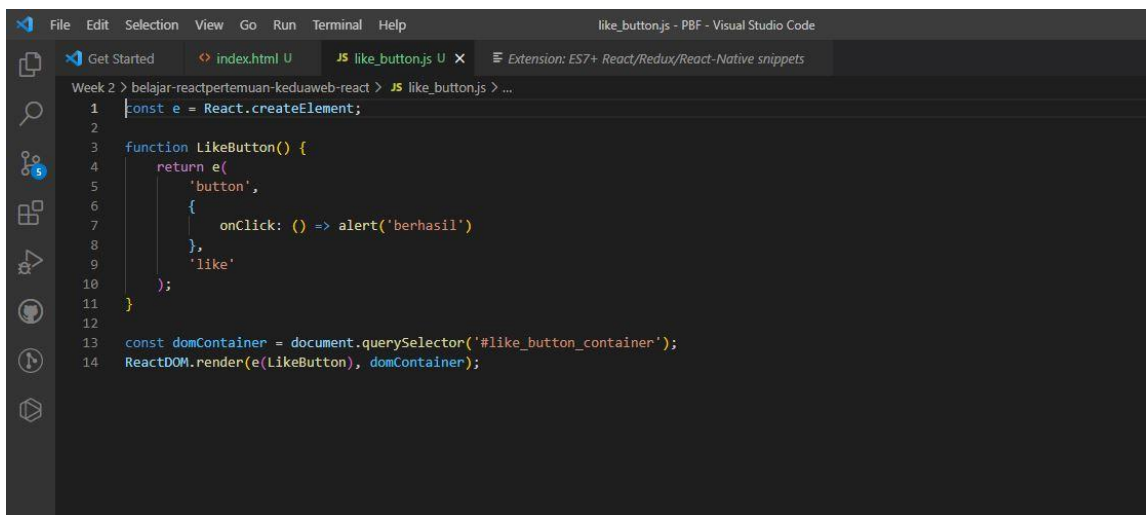
## Praktikum 2

Pada praktikum ini, yang pertama adalah membuat file Index.html dan like\_button.js kemudian di jalankan seperti biasa. Sebelum itu harus mengaktifkan *Allow access to file url* pada setting di chrome.



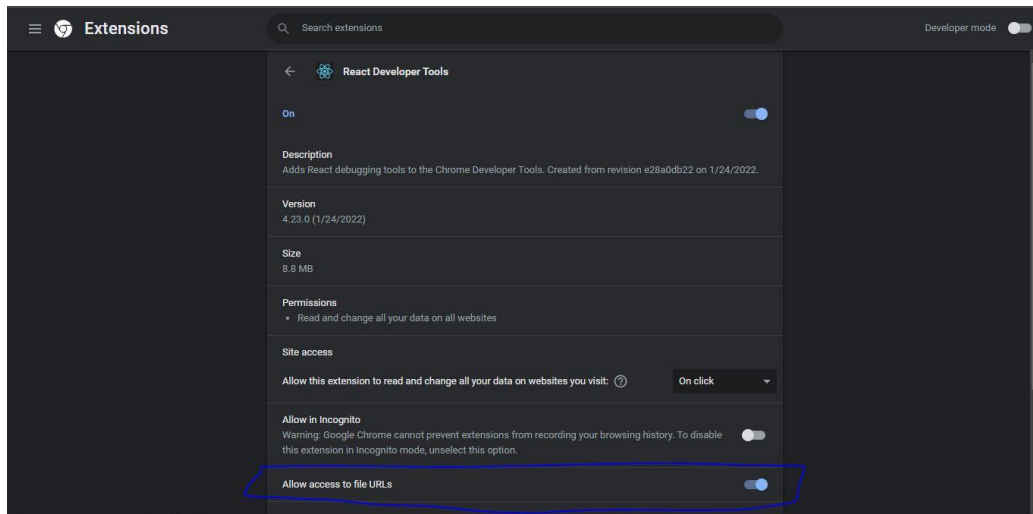
```
File Edit Selection View Go Run Terminal Help
index.html - PBF - Visual Studio Code
Get Started index.html U JS like_button.js U Extension: ES7+ React/Redux/React-Native snippets
Week 2 > belajar-reactpertemuan-kedua-web-react > index.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Belajar React</title>
7 </head>
8 <body>
9   <p>Hello Dunia</p>
10  <div id="like_button_container"></div>
11
12  <script crossorigin src="https://unpkg.com/react@16/umd/react.development.js"></script>
13  <script crossorigin src="https://unpkg.com/react-dom@16/umd/react-dom.development.js"></script>
14  <script src="like_button.js"></script>
15 </body>
16 </html>
```

Gambar 11 Src index.html

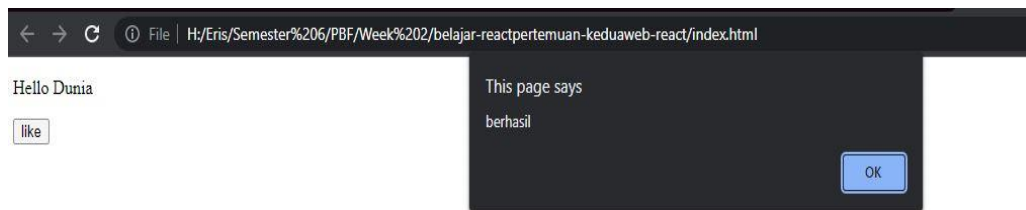


```
File Edit Selection View Go Run Terminal Help
like_button.js - PBF - Visual Studio Code
Get Started index.html U JS like_button.js U Extension: ES7+ React/Redux/React-Native snippets
Week 2 > belajar-reactpertemuan-kedua-web-react > JS like_button.js > ...
1 const e = React.createElement;
2
3 function LikeButton() {
4   return e(
5     'button',
6     {
7       onClick: () => alert('berhasil')
8     },
9     'like'
10  );
11 }
12
13 const domContainer = document.querySelector('#like_button_container');
14 ReactDOM.render(e(LikeButton), domContainer);
```

Gambar 12 Src like\_button.js



*Gambar 13 Setting React di Chrome*



*Gambar 14 Hasil Output*

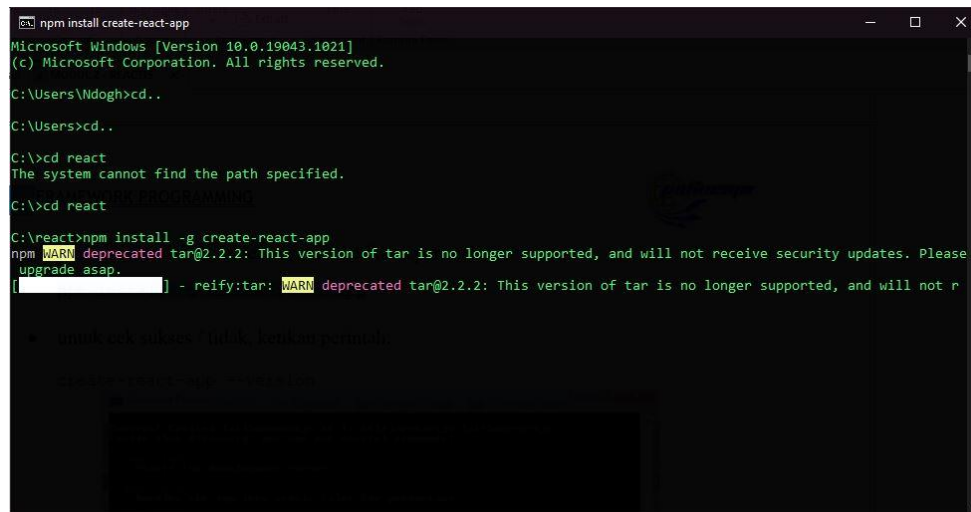


## Melakukan Instalasi React-App

Yang dilakukan pertama adalah melakukan install `npm -g create-react-app`

Kemudian membuat project react-app. Sebelum itu, disini saya merubah tempat pemasangan project, yaitu di folder H agar lebih tertata.

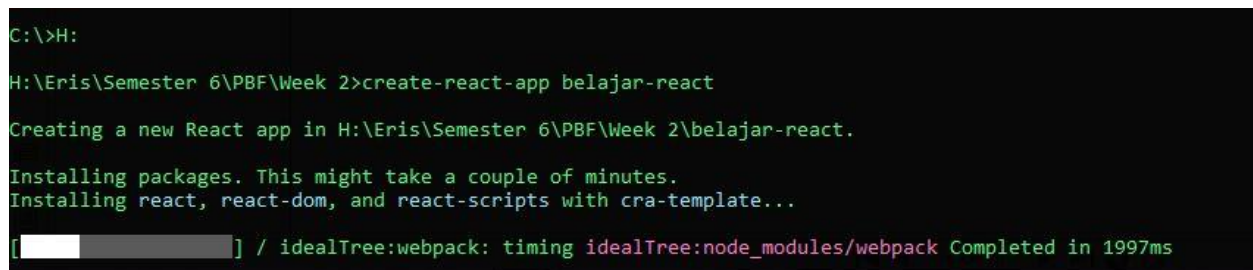
- `Create -react-app belajar-react`
- `Cd belajar-react`
- `Npm start`



```
npm install create-react-app
Microsoft Windows [Version 10.0.19043.1021]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Wdogh>cd..
C:\Users>cd..
C:\>cd react
The system cannot find the path specified.
C:\>cd react
C:\react>npm install -g create-react-app
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please
upgrade asap.
[REDACTED] - reify:tar: WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not r
* Untuk cek sukses? (tidak, bukan perintah)
create-react-app --version
1.7.0
```

Gambar 15 install react-app



```
C:\>H:
H:\Eris\Semester 6\PBF\Week 2>create-react-app belajar-react
Creating a new React app in H:\Eris\Semester 6\PBF\Week 2\belajar-react.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
[REDACTED] / idealTree:webpack: timing idealTree:node_modules/webpack Completed in 1997ms
```

Gambar 16 pindah ke drive H dan buat project

```
Run `npm audit` for details.

Success! Created belajar-react at H:\Eris\Semester 6\PBF\Week 2\belajar-react
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

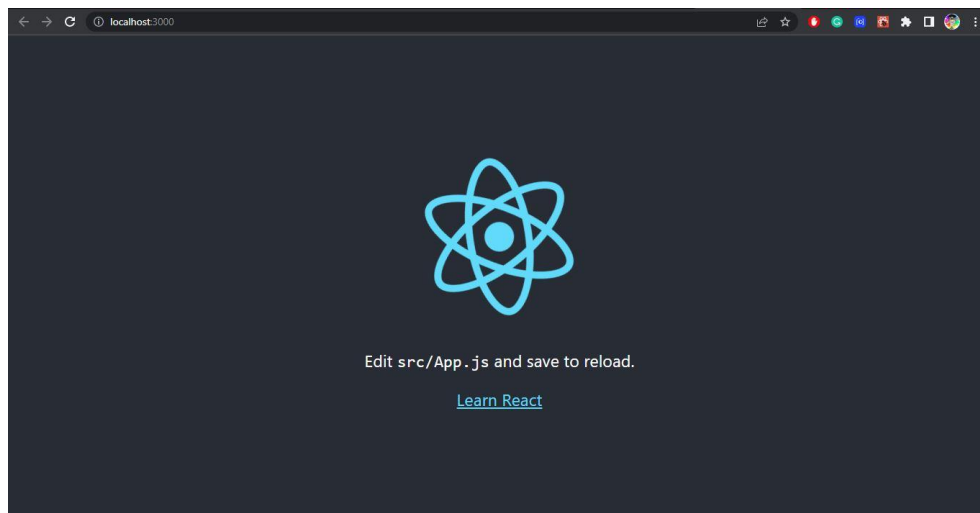
  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd belajar-react
  npm start

Happy hacking!
H:\Eris\Semester 6\PBF\Week 2>
```

*Gambar 17 project sukses dibuat*



*Gambar 18 hasil output secara otomatis*

```
Windows PowerShell
Compiled successfully!

You can now view belajar-react in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.43.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

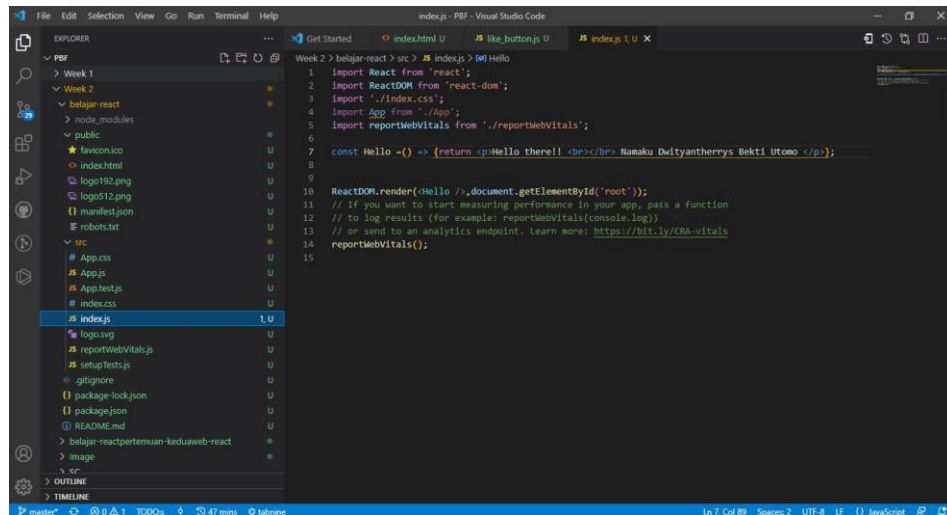
assets by path static/ 1.49 MiB
  asset static/js/bundle.js 1.48 MiB [emitted] (name: main) 1 related asset
  asset static/js/node_modules_web-vitals_dist_web-vitals_js.chunk.js 6.93 KiB [emitted] 1 related asset
  asset static/media/logo.6ce24c58023cc2f8fd88fe9d219db6c6.svg 2.57 KiB [emitted] (auxiliary name: main)
asset index.html 1.67 KiB [emitted]
asset asset-manifest.json 546 bytes [emitted]
runtime modules 31.3 KiB 15 modules
modules by path ./node_modules/ 1.35 MiB 99 modules
modules by path ./src/ 18.2 KiB
  modules by path ./src/*.css 8.82 KiB
    ./src/index.css 2.72 KiB [built] [code generated]
    ./node_modules/css-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[1]!../node_modules/postcss-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[2]!../node_modules/source-map-loader/dist/cjs.js!./src/index.css 1.37 KiB [built] [code generated]
    ./src/App.css 2.72 KiB [built] [code generated]
    ./node_modules/css-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[1]!../node_modules/postcss-loader/dist/cjs.js??ruleSet[1].rules[1].oneOf[5].use[2]!../node_modules/source-map-loader/dist/cjs.js!./src/App.css 2 KiB [built] [code generated]
  modules by path ./src/*.js 5.72 KiB
    ./src/index.js 1.81 KiB [built] [code generated]
    ./src/App.js 2.52 KiB [built] [code generated]
    ./src/reportWebVitals.js 1.4 KiB [built] [code generated]
    ./src/logo.svg 3.61 KiB [built] [code generated]
webpack 5.69.1 compiled successfully in 41637 ms

Edit src/App.js and save to reload.
```

Gambar 19 server local berjalan

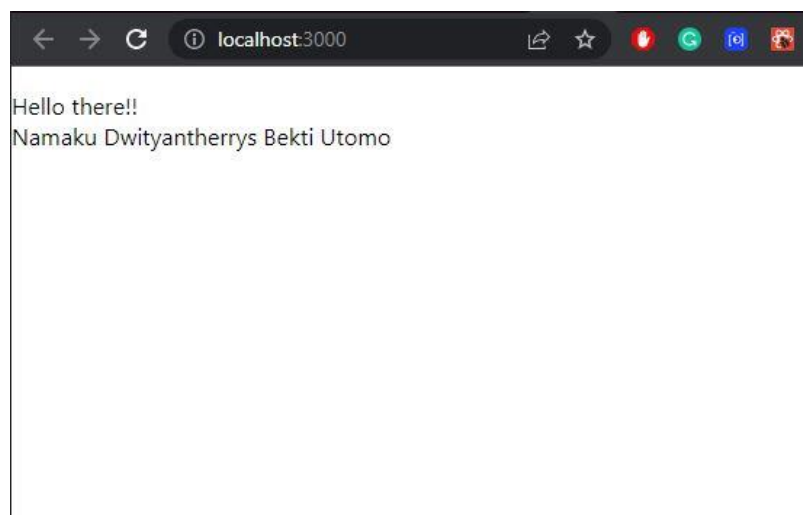
## Praktikum 3

Pada bagian ini akan dilakukan praktikum simple yaitu memunculkan tulisan hello there dan juga saya menambahkan nama saya dengan cara mengedit source code di line 7 pada index.js kemudian dipanggil ReactDOM pada line 10.



```
Week 2 > belajar-react > src > index.js > [W] Hello
1 import React from 'react';
2 import ReactDOM from 'react-dom';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 const Hello = () => (return <p>Hello there!! <br><br> Namaku Dwityantherrys Bektu Utomo </p>);
8
9
10 ReactDOM.render(<Hello />, document.getElementById('root'));
11 // If you want to start measuring performance in your app, pass a function
12 // to log results (for example: reportWebVitals(console.log))
13 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
14 reportWebVitals();
15
```

Gambar 20 Source Code



Gambar 21 Hasil Output