

Framework-Based Programming

Jobsheet 2



ARRANGED BY :

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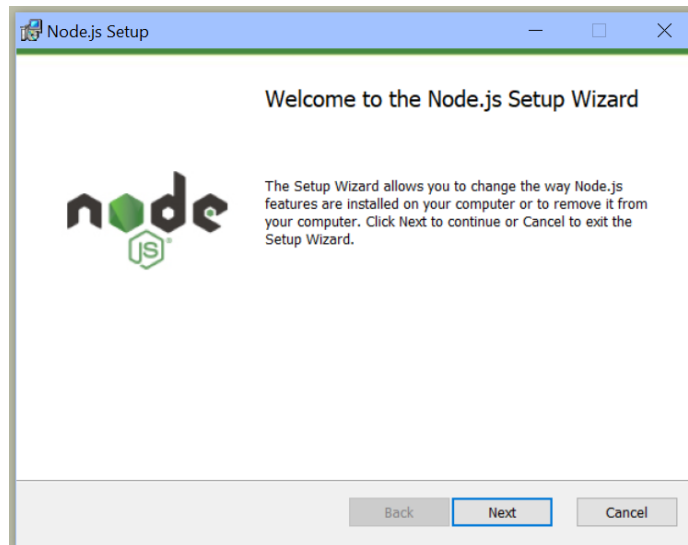
STUDY PROGRAM D4 TECHNICAL INFORMATION

POLITEKNIK NEGERI MALANG

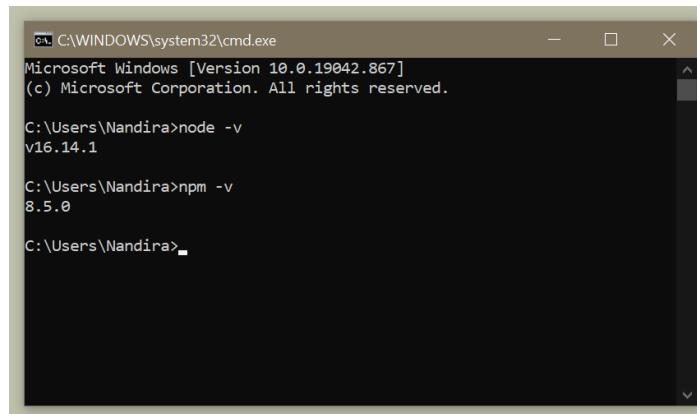
2021/2022

A. NodeJS Installation

1. Installing Node.js



2. Installation Verification



B. Adding React to the website

1. Make a folder

✓ LEARN-REACT

✓ week-2 \ web-react

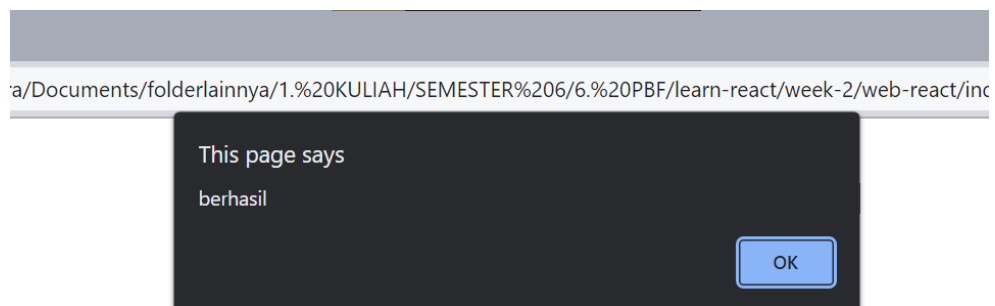
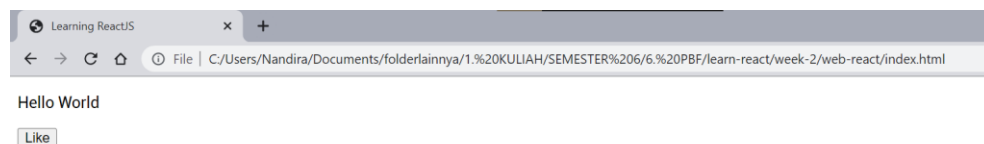
2. Create index.html

```
week-2 > 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   <!-- Other HTML -->
7   <title>Learning ReactJS</title>
8 </head>
9 <body>
10  <p>Hello World</p>
11  <div id="like_button_container"></div>
12
13  <!-- load React.-->
14  <!-- Note: when deploying, replace "development.js" with "production.min.js". -->
15  <script crossorigin src="https://unpkg.com/react@17/umd/react.development.js" crossorigin></script>
16  <script crossorigin src="https://unpkg.com/react-dom@17/umd/react-dom.development.js" crossorigin></script>
17
18  <!-- Load our Reach component. -->
19  <script src="like_button.js"></script>
20 </body>
21 </html>
```

3. Create like_button.js

```
week-2 > 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   <!-- Other HTML -->
7   <title>Learning ReactJS</title>
8 </head>
9 <body>
10  <p>Hello World</p>
11  <div id="like_button_container"></div>
12
13  <!-- load React.-->
14  <!-- Note: when deploying, replace "development.js" with "production.min.js". -->
15  <script crossorigin src="https://unpkg.com/react@17/umd/react.development.js" crossorigin></script>
16  <script crossorigin src="https://unpkg.com/react-dom@17/umd/react-dom.development.js" crossorigin></script>
17
18  <!-- Load our Reach component. -->
19  <script src="like_button.js"></script>
20 </body>
21 </html>
```

4. Open index.html in browser



C. React-App Installation

1. Check Installation

```
C:\WINDOWS\system32\cmd.exe
C:\react>npm install -g create-react-app
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, a
nd will not receive security updates. Please upgrade asap.

changed 67 packages, and audited 68 packages in 6s

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

2 high severity vulnerabilities

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.

C:\react>create-react-app --version
5.0.0

C:\react>
```

2. Execute file

```
Select Windows PowerShell

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:

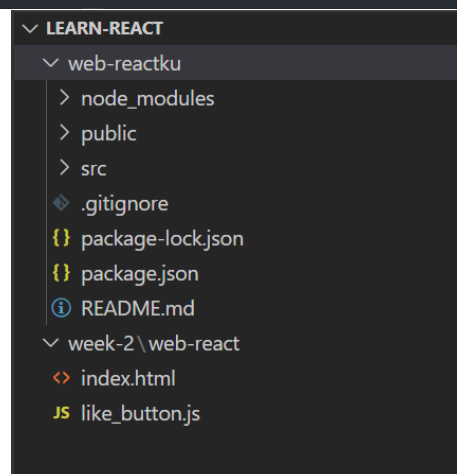
  cd web-reactku
  npm start

Happy hacking!

C:\Users\Nandira\Documents\folderlainnya\1. KULIAH\SEMESTER 6\6. PBF\learn-react>cd web-reactku
C:\Users\Nandira\Documents\folderlainnya\1. KULIAH\SEMESTER 6\6. PBF\learn-react\web-reactku>npm sta
rt
> web-reactku@0.1.0 start
> react-scripts start

(node:52908) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMid
dleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use 'node --trace-deprecation ...' to show where the warning was created)
```

3. Output



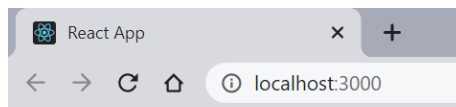
D. React Project Structure

```
index.html  JS like_button.js  JS index.js  X  JS App.js

web-reactku > src > JS index.js
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  ReactDOM.render(
8    <React.StrictMode>
9    |   <App />
10   </React.StrictMode>,
11   document.getElementById('root')
12 );
13
14 // If you want to start measuring performance in your app, pass a function
15 // to log results (for example: reportWebVitals(console.log))
16 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
17 reportWebVitals();
18
```

E. Creating Hello Components Using Arrow Function with the Name Hello

```
web-reactku > src > JS index.js > ...
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 = () => {
8    return <p>Hello!</p>
9  }
10
11 ReactDOM.render(
12   <React.StrictMode>
13   |   <App />
14   </React.StrictMode>,
15   document.getElementById('root')
16 );
17
18 ReactDOM.render(<Hello />, document.getElementById("root"));
19
20 // If you want to start measuring performance in your app, pass a function
21 // to log results (for example: reportWebVitals(console.log))
22 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```



Hello!

D. Assignment

Github <https://github.com/wnandirta/Framework-based-programming>