



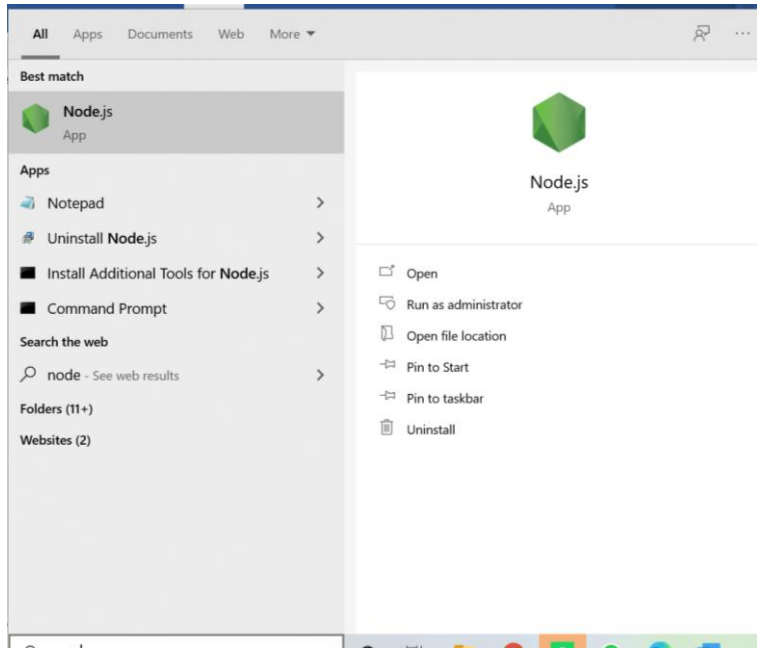
PROGRAMMING FRAMEWORK
INFORMATION TECHNOLOGY DEPARTMENT
INFORMATICS ENGINEERING STUDY PROGRAM
STATE POLYTECHNIC OF MALANG

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JOBSHEET 2

Practice

A.	Install Node.js
	<p>Already install node.js last semester.</p> 
B.	Adding React to the website
	<p>In addition to using the CLI we can also add react on the website The steps are as follows</p> <p>The steps are as follows</p> <ul style="list-style-type: none">• Create a learn-react / second-meeting / web-react folder• Create an index.html file

Index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!--other HTML-->
    <title>Belajar react</title>
  </head>
  <body>
    <p>Hello word</p>
    <div id="like_button_container"></div>

    <!--Load react-->
    <script src="https://unpkg.com/react@16/umd/react.development.js" crossorigin=""></script>
    <script src="https://unpkg.com/react_dom@16/umd/react-dom.development.js" crossorigin=""></script>

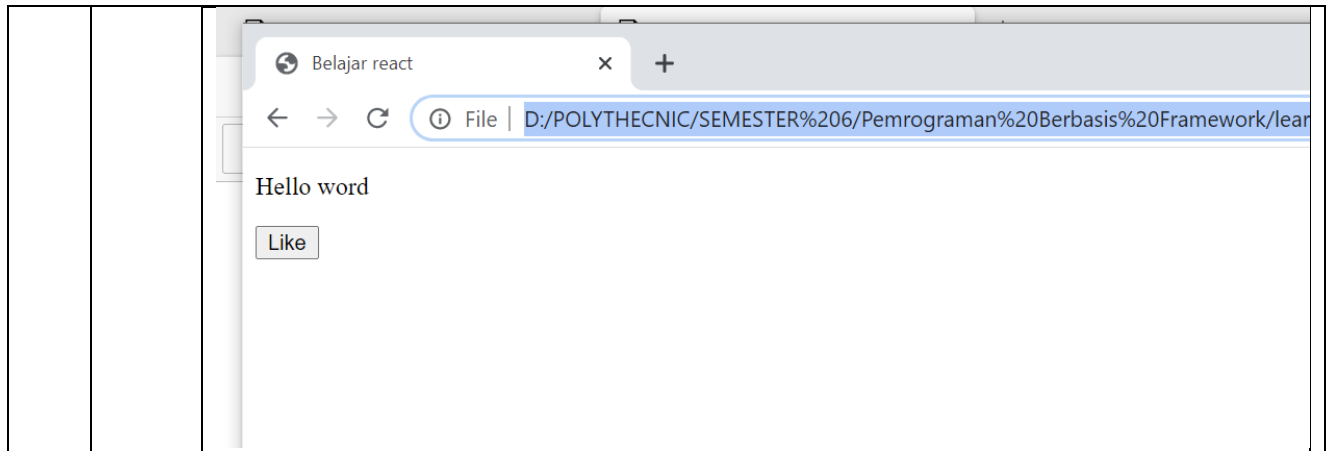
    <!--Load our react component-->
    <script src="like_button.js"></script>
  </body>
</html>
```

Like_button.js

```
//... the starter code u pasted
const e = React.createElement;

function LikeButton(){
  //Display a "Like" <button>
  return e(
    'button',
    {
      onClick: () => alert('berhasil')
    },
    'Like'
  );
}

const domContainer = document.querySelector('#like_button_container');
ReactDOM.render(e(LikeButton), domContainer);
```



C. Instalasi react-app

create-react-app is the program used to create React projects. This program will generate all the things we need for the initial project. Starting from package.json, index.html file index.js and so on.

There are two ways to use it:

1. Installed first, then used it
2. Used directly with NPX

*specify the location for the react install, for example if in Windows C: react (create this folder if it doesn't exist yet) type in CMD / DOS

```
CA\WINDOWS\system32\cmd.exe
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

removed 1 package and audited 1934 packages in 8.02s

27 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

Created git commit.

success! Created web-reactku at D:\POLYTECHNIC\SEMESTER 6\Pemrograman Berbasis Framework\web-reactku
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.

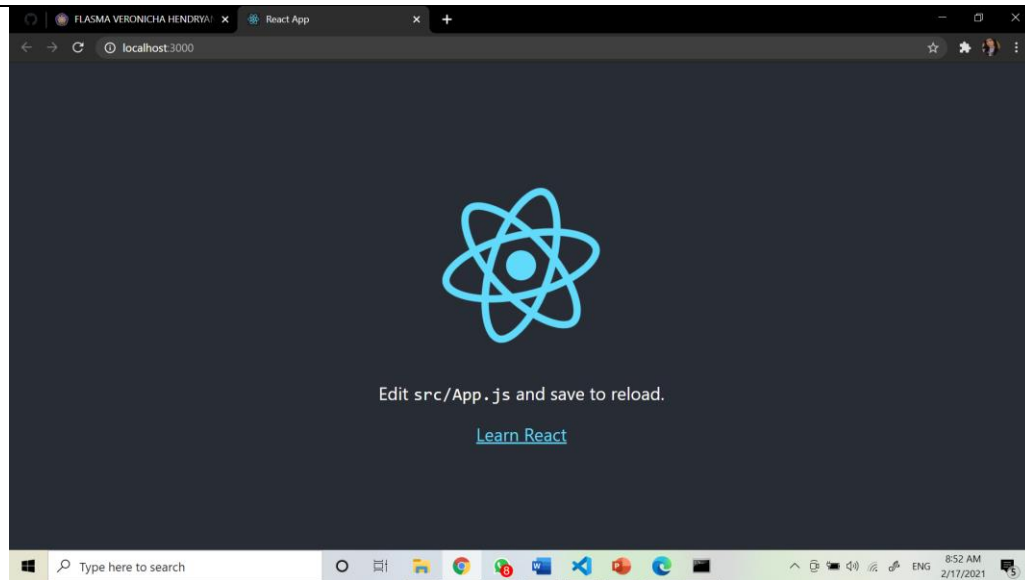
  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd web-reactku
  npm start

Happy hacking!

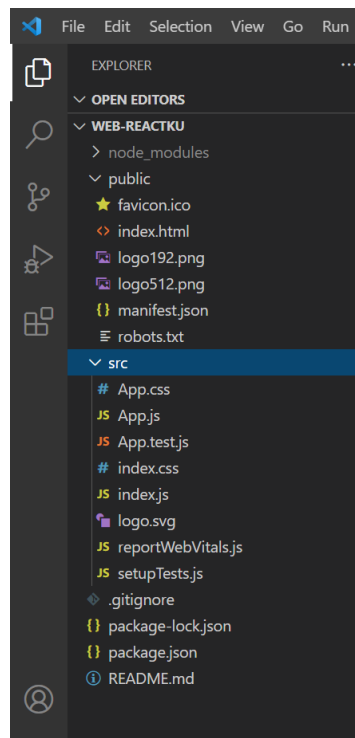
D:\POLYTECHNIC\SEMESTER 6\Pemrograman Berbasis Framework>
```



Code structure

```

terminate batch job (Y/N)? Y
D:\POLYTECHNIC\SEMESTER 6\Pemrograman Berbasis Framework\web-reactku>code .
D:\POLYTECHNIC\SEMESTER 6\Pemrograman Berbasis Framework\web-reactku>_
  
```



D. Project React Structure

First react will run on the src folder index.js

On line 7

- There is a code rendering process in the DOM
- There are two rendering parameters

ReactDOM.render (element, container [, callback])

- <https://reactjs.org/docs/react-dom.html#render>

So on line 7 there are 2 to be rendered

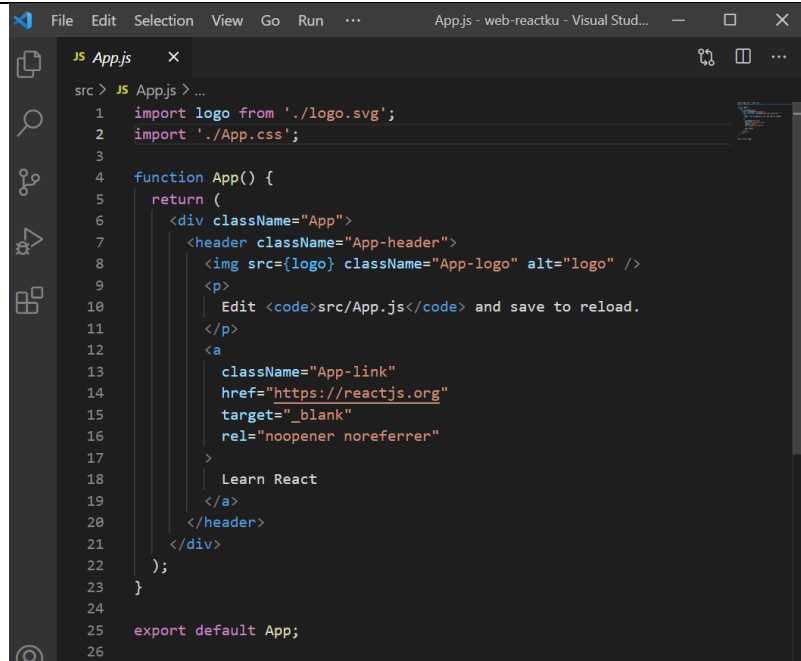
- Component App (in src / App.js)
- Id = root in index.html (in public / index.html)

```
JS index.js
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
```

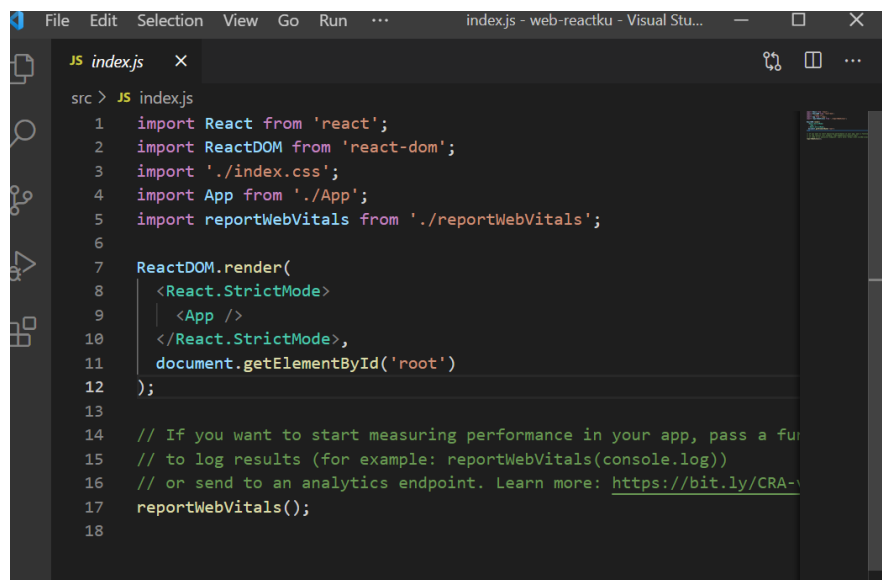
Id root

```
index.html
public > index.html > html > body
21
22
23
24
25
26
27 <title>React App</title>
28 </head>
29 <body>
30   <noscript>You need to enable JavaScript to run this app.</noscript>
31   <div id="root"></div>
32 <!--
33 This HTML file is a template.
34 If you open it directly in the browser, you will see an empty page.
35
```

Component / App functions in src / App.js, then index.js on line 4 of its importation
App

A screenshot of a Visual Studio Code editor window showing the code for App.js. The file is named 'App.js' and is located in the 'src' directory. The code defines a function 'App()' that returns a JSX element. The JSX element consists of a 'div' with 'className="App"', containing a 'header' with 'className="App-header"', which in turn contains an 'img' with 'src={logo}' and 'className="App-logo"', a 'p' with the text 'Edit <code>src/App.js</code> and save to reload.', and an 'a' with 'className="App-link"', 'href="https://reactjs.org"', 'target="_blank"', and 'rel="noopener noreferrer"', containing the text 'Learn React'. The 'App()' function is then exported as the default export.

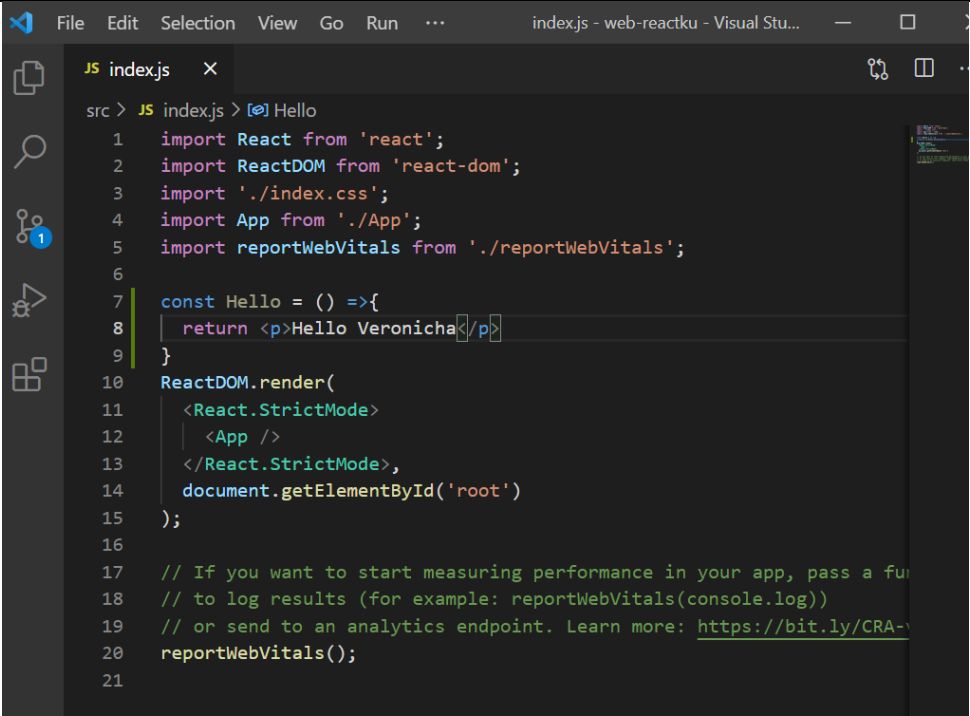
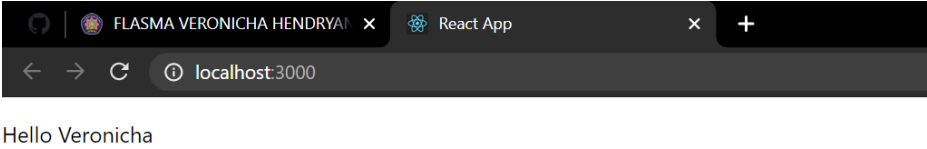
```
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return (
6     <div className="App">
7       <header className="App-header">
8         <img src={logo} className="App-logo" alt="logo" />
9         <p>
10           Edit <code>src/App.js</code> and save to reload.
11         </p>
12         <a
13           className="App-link"
14           href="https://reactjs.org"
15           target="_blank"
16           rel="noopener noreferrer"
17         >
18           Learn React
19         </a>
20       </header>
21     </div>
22   );
23 }
24
25 export default App;
```

A screenshot of a Visual Studio Code editor window showing the code for index.js. The file is named 'index.js' and is located in the 'src' directory. The code imports 'React' from 'react', 'ReactDOM' from 'react-dom', './index.css', 'App' from './App', and 'reportWebVitals' from './reportWebVitals'. It then calls 'ReactDOM.render()' with the following arguments: a 'React.StrictMode' element containing an 'App' component, and 'document.getElementById('root')'. Below the render call, there is a comment about measuring performance and a call to 'reportWebVitals()'.

```
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
```

MAKE HELLO COMPONENTS USING ARROW FUNCTION

Open the index.js file in src and add an arrow function called Hello

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