

FRAMEWORK BASED PROGRAMMING

JOBSHEET 2



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A. NodeJS Installation

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18363.1556]
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C:\Users\HP>node -v
v14.15.5

C:\Users\HP>npm -v
6.14.11

C:\Users\HP>_
```

B. Adding React to the Website

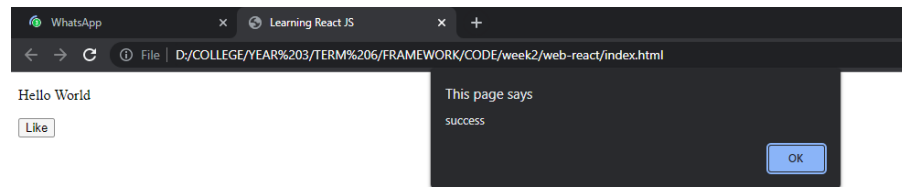
- Index.html

```
web-react > <> index.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>Learning React JS</title>
7 </head>
8 <body>
9   <p>Hello World</p>
10  <div id="like_button_container">
11    <!-- Load React -->
12    <!-- Note: when deploying, replace "development.js" with "production.min.js" -->
13    <script src="https://unpkg.com/react/umd/react.development.js"></script>
14    <script src="https://unpkg.com/react-dom/umd/react-dom.development.js"></script>
15
16    <!-- Load our React Component -->
17    <script src="like_button.js"></script>
18  </div>
19 </body>
20 </html>
```

- Like_button.js

```
web-react > JS like_button.js > ...
1 const e=React.createElement;
2
3 function LikeButton() {
4   // Display a "Like" <button>
5   return e(
6     'button',{
7       onClick:() =>alert('success')
8     },
9     'Like'
10  )
11 }
12
13 // Const button = () =>{
14 //   return <button>Like</button>
15 // }
16
17 const domContainer=document.querySelector('#like_button_container');
18 ReactDOM.render(e(LikeButton),domContainer);
```

- **Result**



C. React-app Installation

```
C:\Windows\system32\cmd.exe

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:\COLLEGE\YEAR 3\TERM 6\FRAMEWORK\CODE\week2>npm start
npm ERR! code ENOENT
npm ERR! syscall open
npm ERR! path d:\COLLEGE\YEAR 3\TERM 6\FRAMEWORK\CODE\week2\package.json
npm ERR! errno -4058
npm ERR! enoent ENOENT: no such file or directory, open 'd:\COLLEGE\YEAR 3\TERM 6\FRAMEWORK\CODE\week2\package.json'
npm ERR! enoent This is related to npm not being able to find a file.
npm ERR! enoent
npm ERR! A complete log of this run can be found in:
npm ERR!     C:\Users\HP\AppData\Roaming\npm-cache\_logs\2022-03-17T04_34_35_906Z-debug.log
```

```
web-reactku > src > JS App.js > ...
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;
```

D. React Project Structure

- Index.html

```
25 | | Learn how to configure a non-root public URL by running `npm run build`.
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 |
36 |     You can add webfonts, meta tags, or analytics to this file.
37 |     The build step will place the bundled scripts into the <body> tag.
38 |
39 |     To begin the development, run `npm start` or `yarn start`.
40 |     To create a production bundle, use `npm run build` or `yarn build`.
41 |   -->
42 | </body>
43 | </html>
```

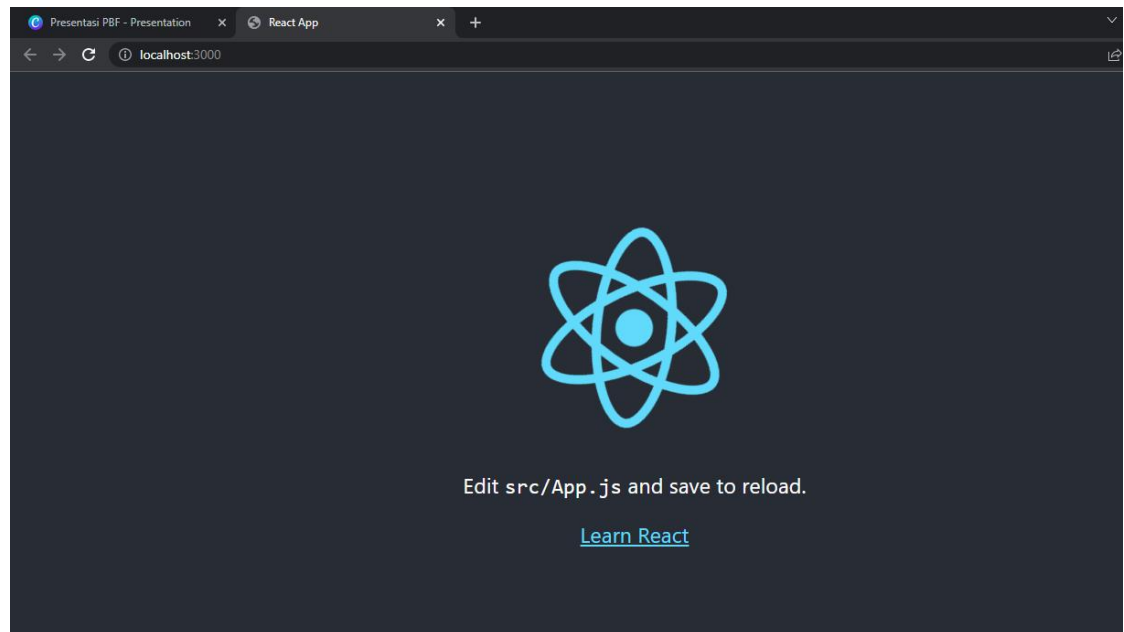
- Index.js

```
web-reactku > src > JS indexjs
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
```

- App.js

```
web-reactku > src > JS App.js > ...
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;
```

- **Result**



E. Creating Hello Component using Arrow Function

- **Index. Js**

```
web-reactku > src > $S 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(<Hello />, document.getElementById("root"));
12 // ReactDOM.render(
13 //   <React.StrictMode>
14 //     <App />
15 //   </React.StrictMode>,
16 //   document.getElementById('root')
17 // );
18
19 // If you want to start measuring performance in your app, pass a function
20 // to log results (for example: reportWebVitals(console.log))
21 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
22 reportWebVitals();
23
```

- **Result**

