FRAMEWORK BASED PROGRAMMING

JOBSHEET 2

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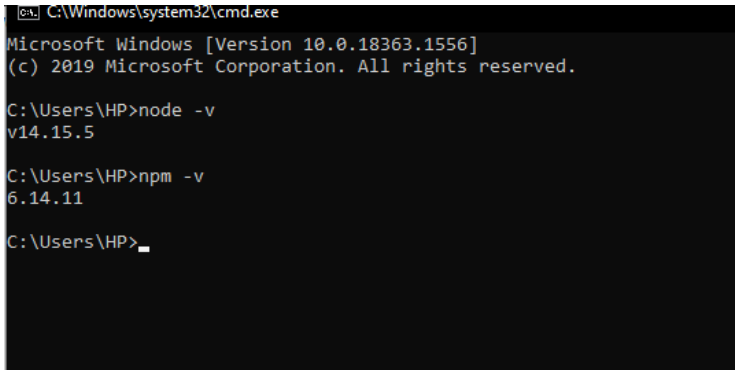
A. NodeJS Installation



B. Adding React to the Website

- **Index.html**

web-react > index.html

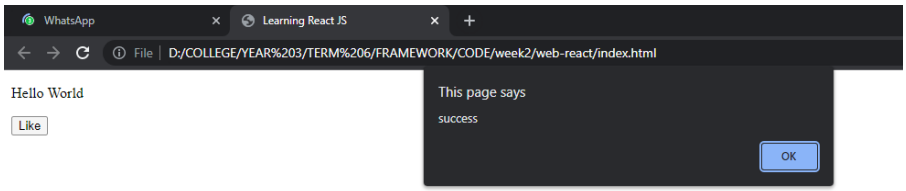
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Learning React JS</title>
</head>
<body>
    <p>Hello World</p>
    <div id="like_button_container">
        <!-- Load React -->
        <!-- Note: when deploying, replace "development.js" with "production.min.js" -->
        <script src="https://unpkg.com/react/umd/react.development.js"></script>
        <script src="https://unpkg.com/react-dom/umd/react-dom.development.js"></script>

        <!-- Load our React Component -->
        <script src="like_button.js"></script>
    </div>
</body>
</html>
```

- **Like_button.js**

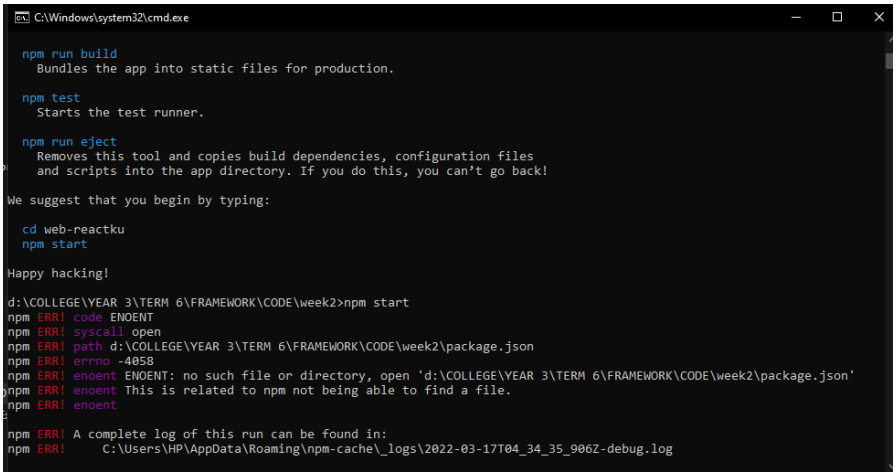
web-react > JS like_button.js > ...

```
const e=React.createElement;

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

// Const button = () =>{
//  return <button>Like</button>
// }

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

- **Result**



C. React-app Installation



D. React Project Structure

- **Index.html**

```
    Learn how to configure a non-root public URL by running `npm run build`.
    -->
    <title>React App</title>
  </head>
  <body>
    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>
    <!--
      This HTML file is a template.
      If you open it directly in the browser, you will see an empty page.

      You can add webfonts, meta tags, or analytics to this file.
      The build step will place the bundled scripts into the <body> tag.

      To begin the development, run `npm start` or `yarn start`.
      To create a production bundle, use `npm run build` or `yarn build`.
    -->
  </body>
</html>
```

- **Index.js**

web-reactku > src > JS index.js

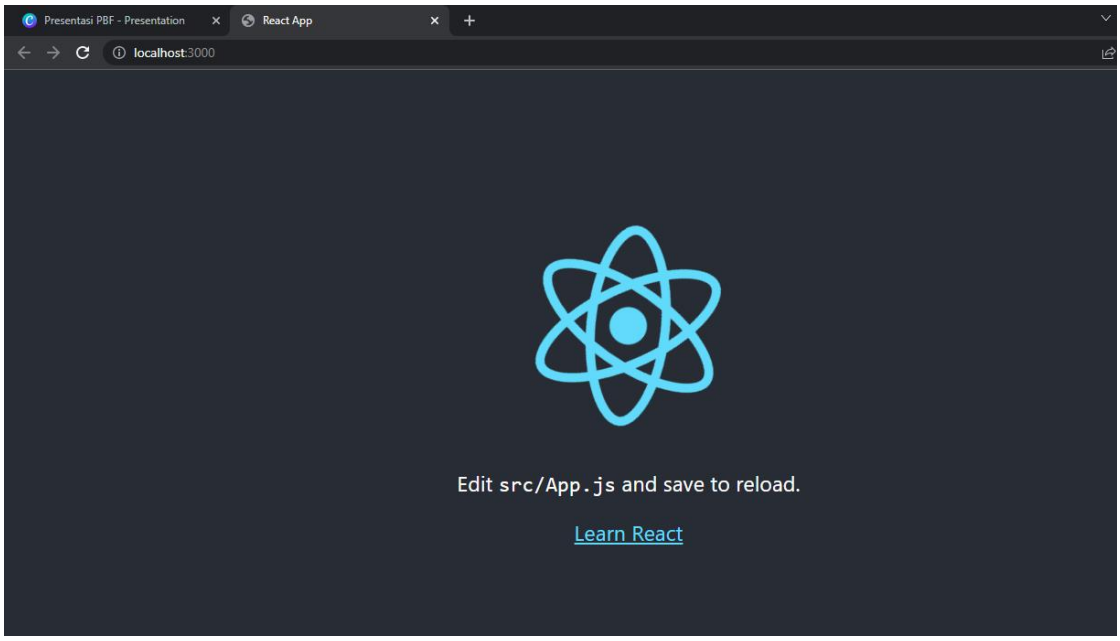
```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

ReactDOM.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
  document.getElementById('root')
);

// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();

```

- **App.js**

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

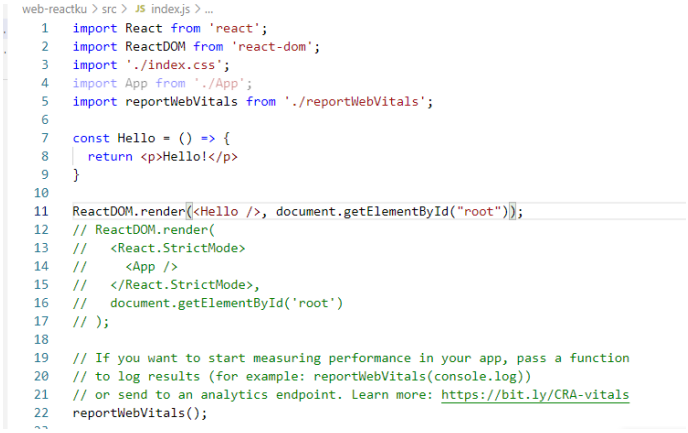
```
import logo from './logo.svg';
import './App.css';

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <img src={logo} className="App-logo" alt="logo" />
        <p>
          Edit <code>src/App.js</code> and save to reload.
        </p>
        <a
          className="App-link"
          href="https://reactjs.org"
          target="_blank"
          rel="noopener noreferrer"
        >
          Learn React
        </a>
      </header>
    </div>
  );
}

export default App;
```

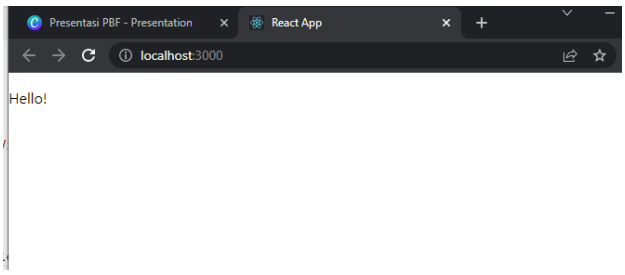
- **Result**



E. Creating Hello Component using Arrow Function

- **Index. 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   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();
```

- **Result**