# FRAMEWORK-BASED PROGRAMMING

Week 2: ReactJS



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# PROGRAM STUDI D4 TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG 2022

# **A.**Experiment

- 1. Adding react to the website
  - a. Create index.html

```
index.html × JS like_button.js

    index.html > 
    html
    htm
         1 <!DOCTYPE html>
                             <html lang="en">
                                             <head>
         3
                                                                 <meta charset="utf-8">
          4
           5
                                                                <meta name="viewport" content="width-device-width, initial-scale=1.0">
           6
                                                               <title>Learning ReactJS</title>
           7
                                               </head>
          8
                                               <body>
         9
                                                                  Hello World
       10
                                                                 <div id="like_button_container"></div>
       11
                                                                <script src="https://unpkg.com/react@16.14.0/umd/react.development.js" crossorigin></script>
      12
       13
                                                                 <script src="https://unpkg.com/react-dom@16.14.0/umd/react-dom.development.js" crossorigin></script>
      14
      15
                                                                 <script src="like_button.js"></script>
                                                 </body>
      16
       17
                               </html>
```

b. Create like button.js

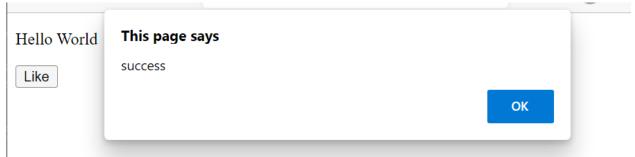
```
JS like_button.js ×
index.html
JS like_button.js > ♦ LikeButton > ♦ onClick
       const e = React.createElement;
  1
  2
  3
       function LikeButton(){
  4
           return e(
                'button',
  5
  6
                {
                    onClick: () => alert('success')
  7
  8
                },
                'Like'
  9
 10
           );
 11
 12
 13
 14
       const domContainer = document.querySelector('#like_button_container');
 15
16
       ReactDOM.render(e(LikeButton), domContainer)
```

### c. Result

# Hello World

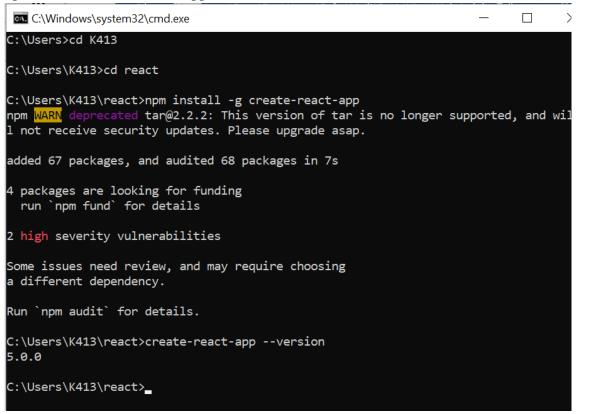
Like

After clicking like button will show the alert success

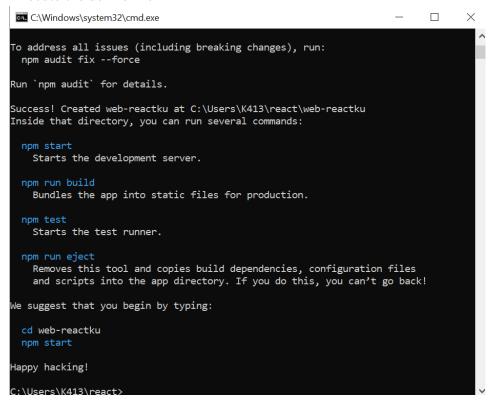


# 2. React-app Installation

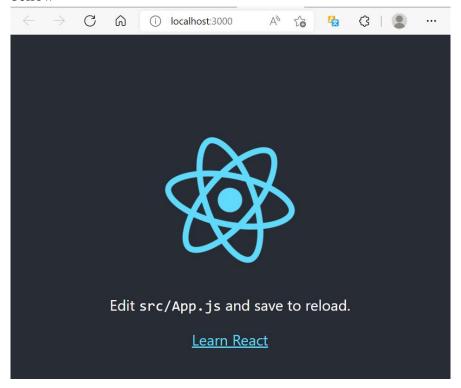
a. npm install and create react app



b. Execute the define file



c. Open the path folder of web-reactku and input npm start in terminal. It will be display like bellow



# 3. React Project Structure

# a. Index.js

```
src > Js index.js
  1 import React from 'react';
      import ReactDOM from 'react-dom';
     import './index.css';
      import App from './App';
  4
      import reportWebVitals from './reportWebVitals';
      ReactDOM.render(
      <React.StrictMode>
 9
        <App />
 10
       </React.StrictMode>,
 11
       document.getElementById('root')
 12
 14
      // If you want to start measuring performance in your app, pass a function
 15
      // to log results (for example: reportWebVitals(console.log))
      // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
 16
 17
      reportWebVitals();
 18
```

# b. Index.html

# c. App.js

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

# 4. Creating Hello Component Using Arrow Function

a. Add arrow function in index.js

```
index.html
# App.css
                               Js index.js
src > JS index.js > ...
       import React from 'react';
  1
       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 Hello !
  9
 10
      ReactDOM.render(<Hello />, document.getElementById("root"));
       //ReactDOM.render(
 11
 12
       // <React.StrictMode>
 13
        // <App />
 14
        //</React.StrictMode>,
       // document.getElementById('root')
 15
 16
      //);
 17
      // If you want to start measuring performance in your app, pass a function
 18
 19
      // to log results (for example: reportWebVitals(console.log))
      // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
 20
 21
       //reportWebVitals();
 22
```

## b. Result

