

Week7_11_ReactJS_HOL

Creating the app

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

Active code page: 65001

C:\Users\veert\OneDrive\Desktop\javanew>npx create-react-app eventexamplesapp

Creating a new React app in C:\Users\veert\OneDrive\Desktop\javanew\eventexamplesapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1323 packages in 51s

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

Initialized a git repository.

Installing template dependencies using npm...

added 17 packages, and changed 1 package in 6s

269 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...
```

Folder Structure

```
EXPLORER

JAVANEW
├── eventexamplesapp
│   ├── node_modules
│   ├── public
│   └── src
│       ├── components
│       │   ├── Counter.js
│       │   └── CurrencyConverter.js
│       ├── App.css
│       ├── App.js
│       ├── App.test.js
│       ├── index.css
│       ├── index.js
│       ├── logo.svg
│       ├── reportWebVitals.js
│       └── setupTests.js
├── .gitignore
├── package-lock.json
├── package.json
└── README.md
```

Counter.js

eventexamplesapp > src > components > JS Counter.js > Counter > constructor

```
1  import React, { Component } from 'react';
2  class Counter extends Component {
3    constructor(props) {
4      super(props);
5      this.state = {
6        count: 0,
7        message: ''
8      };
9
10     increment = () => {
11       this.setState(prevState => ({ count: prevState.count + 1 }));
12       this.sayHello();
13     };
14     decrement = () => {
15       this.setState(prevState => ({ count: prevState.count - 1 }));
16     };
17     sayHello = () => {
18       this.setState({ message: 'Hello! Button Clicked!' });
19     };
20     sayWelcome = (text) => {
21       this.setState({ message: text });
22     };
23     handleSyntheticEvent = (e) => {
24       e.preventDefault();
25       this.setState({ message: 'I was clicked' });
26     };
27     render() {
28       return (
29         <div>
30           <h2>Count: {this.state.count}</h2>
31           <button onClick={this.increment}>Increment</button>
32           <button onClick={this.decrement}>Decrement</button>
33           <button onClick={() => this.sayWelcome('Welcome!')}>Say Welcome</button>
34           <button onClick={this.handleSyntheticEvent}>Synthetic Event</button>
35           <p>{this.state.message}</p>
36         </div>
37       );
38     }
39   }
40   export default Counter;
```

CurrencyConverter.js

```
eventexamplesapp > src > components > JS CurrencyConverter.js > ...
1  import React, { useState } from 'react';
2
3  const CurrencyConverter = () => {
4    const [rupees, setRupees] = useState('');
5    const [euro, setEuro] = useState(null);
6
7    const handleSubmit = () => {
8      const converted = parseFloat(rupees) / 90;
9      setEuro(converted.toFixed(2));
10   };
11
12   return (
13     <div>
14       <h2>Currency Converter</h2>
15       <input
16         type="number"
17         placeholder="Enter amount in INR"
18         value={rupees}
19         onChange={(e) => setRupees(e.target.value)}
20       />
21       <button onClick={handleSubmit}>Convert</button>
22       {euro} && <p>€ {euro}</p>
23     </div>
24   );
25 };
26
27 export default CurrencyConverter;
28
```

App.js

```
eventexamplesapp > src > JS App.js > ...
1  import React from 'react';
2  import Counter from './components/Counter';
3  import CurrencyConverter from './components/CurrencyConverter';
4
5  function App() {
6    return (
7      <div className="App">
8        <Counter />
9        <hr />
10       <CurrencyConverter />
11     </div>
12   );
13 }
14
15 export default App;
16
```

Starting the app

On Your Network: <http://192.168.56.1:3000>

Note that the development build is not optimized.
To create a production build, use `npm run build`.

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webpack compiled **successfully**



Outputs:

Count: 0

Increment

Decrement

Say Welcome

Synthetic Event

Welcome!

Currency Converter

Enter amount in INR

Convert

Count: 7

Increment

Decrement

Say Welcome

Synthetic Event

Hello! Button Clicked!

Currency Converter

Enter amount in INR

Convert

Count: 7

Increment

Decrement

Say Welcome

Synthetic Event

Hello! Button Clicked!

Currency Converter

90

Convert

€ 1.00