

PRACTICE REPORT

Subject: Web application

Lab 3: ReactJS

Instructor: Trần Vĩnh Khiêm

Report date: 2/11/2023

1. GENERAL INFORMATION:

Class: MSIS207.012.CTTT.1

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2			

DETAILED REPORT

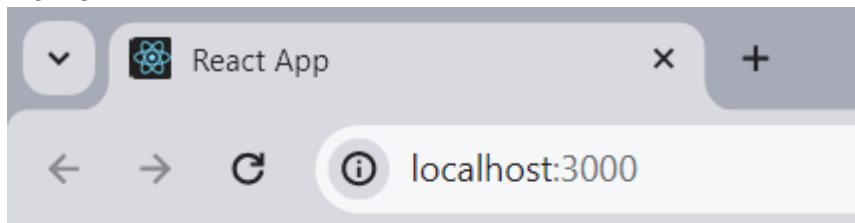
Link Github contain code:

<https://github.com/KRocker3512/Web-app-practice-class>

Note : If you can't access link above, please contact to me via email :20521472@gm.uit.edu.vn .

Exercise 0 :

Demo:



Hello, **JSX**

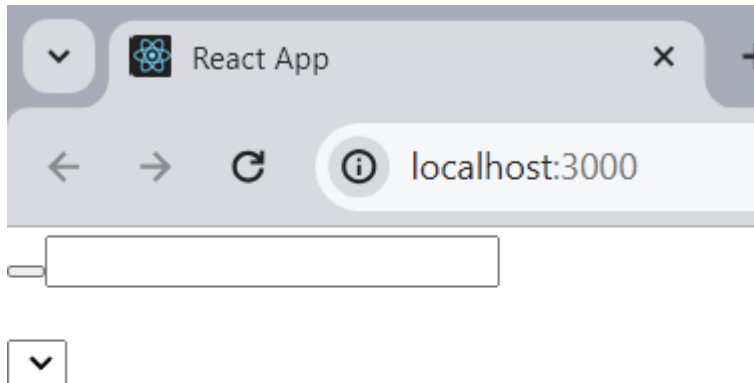
Code:

```
App.test.js M JS index.js M exercise0.jsx U JS MyButton.js U JS M
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 import Ex0 from './exercise/exercise0';
8 import Ex01 from './exercise/exercise0.1';
9 import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14
15 const root = ReactDOM.createRoot(document.getElementById('root'));
16 root.render(
17   <React.StrictMode>
18     <Ex0 />
19   </React.StrictMode>
20   // <MySection>
21   //   <MyButton>My Button Text</MyButton>
22   // </MySection>
23 );
24
25 reportWebVitals();
26
```

```
src > exercise > exercise0.jsx > ...
1 import * as React from "react";
2 import * as ReactDOM from "react-dom";
3
4 function react() {
5   const root =
6     ReactDOM.createRoot(document.getElementById("root"));
7
8   root.render(
9     <p>Hello, <strong>JSX</strong></p>
10   );
11 }
12
13 export default react;
```

Exercise 0.1 :

Demo:



Code:

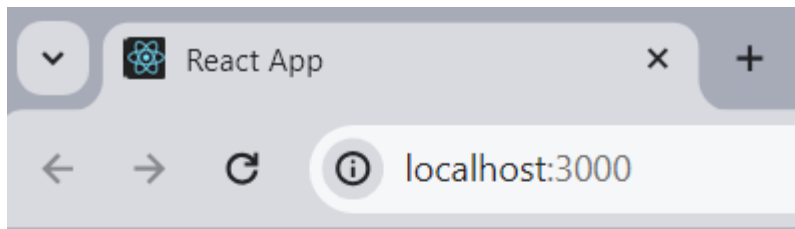
```

App.test.js M JS index.js M X exercise0.1.jsx U JS MyButton.js U JS
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 import Ex0 from './exercise/exercise0';
8 import Ex01 from './exercise/exercise0.1';
9 import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14
15 const root = ReactDOM.createRoot(document.getElementById('root'));
16 root.render(
17   <React.StrictMode>
18     <Ex01 />
19   </React.StrictMode>
20   // <MySection>
21   //   <MyButton>My Button Text</MyButton>
22   // </MySection>
23 );
24
25 reportWebVitals();
26
App.test.js M JS index.js M X exercise0.1.jsx U JS MyButton.js U
src > exercise > exercise0.1.jsx > default
1 import * as React from "react";
2 import * as ReactDOM from "react-dom";
3
4 function react() {
5   const root =
6     ReactDOM.createRoot(document.getElementById("root"));
7
8   root.render(
9     <div>
10       <button />
11       <code />
12       <input />
13       <label />
14       <p />
15       <pre />
16       <select />
17       <table />
18       <ul />
19     </div>
20   );
21 }
22
23 export default react;

```

Exercise 0.2 :

Demo:



A Header

Nav Item

The main content...

© 2021

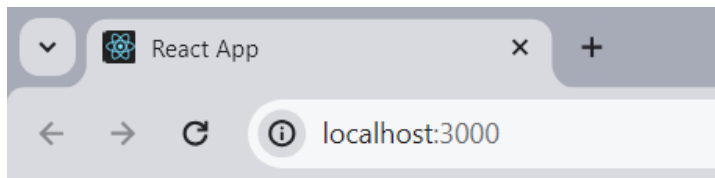
Code :

```
src > JS indexjs > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 import Ex0 from './exercise/exercise0';
8 import Ex01 from './exercise/exercise0.1';
9 import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14
15 const root = ReactDOM.createRoot(document.getElementById('root'));
16 root.render(
17   <React.StrictMode>
18     <Ex02 />
19   </React.StrictMode>
20   // <MySection>
21   //   <MyButton>My Button Text</MyButton>
22   // </MySection>
23 );
24
25 reportWebVitals();
26
```

```
src > exercise > exercise0.2jsx > default
1 import * as React from 'react';
2 import * as ReactDOM from 'react-dom';
3
4 function react() {
5   const root =
6     ReactDOM.createRoot(document.getElementById('root'));
7   root.render(
8     <section>
9       <header>
10         <h1>A Header</h1>
11       </header>
12       <nav>
13         <a href="item">Nav Item</a>
14       </nav>
15       <main>
16         <p>The main content...</p>
17       </main>
18       <footer>
19         <small>&copy; 2021</small>
20       </footer>
21     </section>
22   );
23 }
24
25 export default react;
```

Exercise 0.3 :

Demo:



My Section

My Button Text

Code :

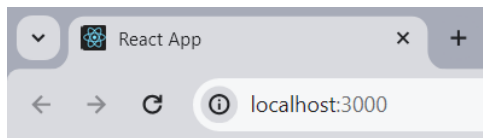
```
App.test.js M JS index.js M exercise0.1.jsx U
src > JS MySection.js > MySection > render
1 import * as React from "react";
2 class MySection extends React.Component {
3   render() {
4     return (
5       <section>
6         <h2>My Section</h2>
7         {this.props.children}
8       </section>
9     );
10  }
11 }
12 export default MySection;
```

```
App.test.js M JS index.js M exercise0.1.jsx U JS MyButton.js U
src > JS MyButton.js > default
1
2
3 import * as React from "react";
4 class MyButton extends React.Component {
5   render()
6   {
7     return <button>{this.props.children}</button>;
8   }
9 }
10 export default MyButton;
```

```
App.test.js M JS index.js M exercise0.1.jsx U JS MyButton.js U JS
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 import Ex0 from './exercise/exercise0';
8 import Ex01 from './exercise/exercise0.1';
9 import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14
15 const root = ReactDOM.createRoot(document.getElementById('root'));
16 root.render(
17   // <React.StrictMode>
18   // <Ex02 />
19   // </React.StrictMode>
20   <MySection>
21     <MyButton>My Button Text</MyButton>
22   </MySection>
23 );
24
25 reportWebVitals();
```

Exercise 0.4 :

Demo:



Array

- First
- Second
- Third

Object

- **first:** 1
- **second:** 2
- **third:** 3

Code:

```
App.test.js M JS index.js M JS MyButton.js U JS MySection.js U
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 import Ex0 from './exercise/exercise0';
8 import Ex01 from './exercise/exercise0.1';
9 import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14
15 const root = ReactDOM.createRoot(document.getElementById('root'));
16 root.render(
17   <React.StrictMode>
18     <Ex04 />
19   </React.StrictMode>
20 );
21 // <MySection>
22 //   <MyButton>My Button Text</MyButton>
23 // </MySection>
24
25 reportWebVitals();

function react() {
  const array = ["First", "Second", "Third"];

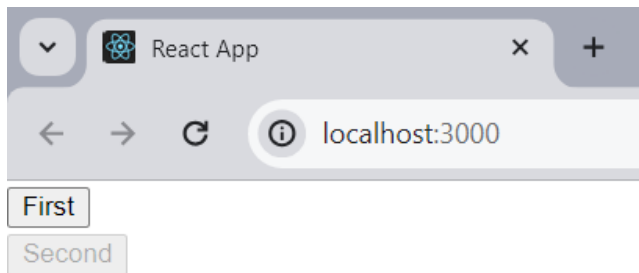
  const object = {
    first: 1,
    second: 2,
    third: 3,
  };

  const root = ReactDOM.createRoot(document.getElementById("root"));
  root.render(
    <section>
      <h1>
        Array
      </h1>
      <ul>
        {array.map((i) => (
          <li
            key={i} > {i}
          </li>
        ))}
      </ul>
      <h1>
        Object
      </h1>
      <ul>
        {Object.keys(object).map((i) => (
          <li key={i}>
            <strong>{i}: </strong>
            {object[i]}
          </li>
        ))}
      </ul>
    </section>
  );
}

export default react;
```

Exercise 1.0 :

Demo:



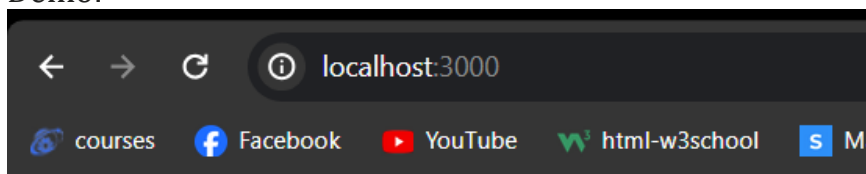
Code :

```
App.test.js M JS index.js M JS MyComponent.js U JS MyButton.js U
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';
6
7 import Ex0 from './exercise/exercise0';
8 import Ex01 from './exercise/exercise0.1';
9 import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14 import MyComponent from './Component/MyComponent';
15
16 const root = ReactDOM.createRoot(document.getElementById('root'));
17 root.render(
18   <MyComponent />
19   // <React.StrictMode>
20   // <Ex04 />
21   // </React.StrictMode>
22   // <MySection>
23   //   <MyButton>My Button Text</MyButton>
24   // </MySection>
25 );
26
27 reportWebVitals();

App.test.js M JS index.js M JS MyComponent.js U JS MyButton.js U
src > Component > JS MyComponent.js > MyComponent > render
1 import * as React from "react";
2 class MyComponent extends React.Component {
3   state = {
4     first: false,
5     second: true,
6   };
7
8   render() {
9     const { first, second } = this.state;
10    return (
11      <main>
12        <section>
13          <button disabled={first}>First</button>
14        </section>
15        <section>
16          <button disabled={second}>Second</button>
17        </section>
18      </main>
19    );
20  }
21 }
22 export default MyComponent;
```

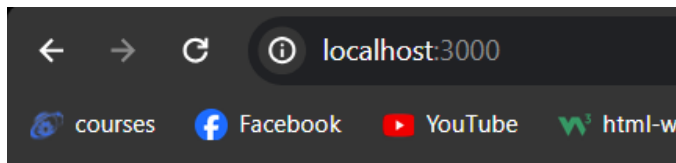
Exercise 1.1 :

Demo:



React Awesomesauce (Busy)

Loading...



React Awesomesauce

Done!

Code:

JS index.js M X

JS MyComponent.js U

JS MyComponent1.1.js U

JS MyComponent1.1.js U

```

src > JS index.js > ...
1  import React from 'react';
2  import ReactDOM from 'react-dom/client';
3  import './index.css';
4  import App from './App';
5  import reportWebVitals from './reportWebVitals';
6
7  import Ex0 from './exercise/exercise0';
8  import Ex01 from './exercise/exercise0.1';
9  import Ex02 from './exercise/exercise0.2';
10 import Ex04 from './exercise/exercise0.4';
11
12 import MySection from './MySection';
13 import MyButton from './MyButton';
14 import MyComponent from './Component/MyComponent';
15 import MyComponent1_1 from './Component/MyComponent1.1';
16
17 const root = ReactDOM.createRoot(document.getElementById('root'));
18 root.render(
19   <MyComponent1_1 />
20   // <MyComponent />
21   // <React.StrictMode>
22   //   <Ex04 />
23   // </React.StrictMode>
24   // <MySection>
25   //   <MyButton>My Button Text</MyButton>
26   // </MySection>
27 );
28
29 reportWebVitals();

```

JS index.js M

JS MyComponent.js U

JS MyComponent1.1.js U

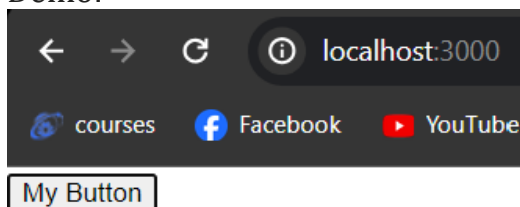
```

src > Component > JS MyComponent1.1.js > default
1  import * as React from "react";
2  class MyComponent1_1 extends React.Component {
3    state = {
4      heading: "React Awesomesauce (Busy)",
5      content: "Loading...",
6    };
7
8    constructor() {
9      super();
10     setTimeout(() => {
11       this.setState({
12         heading: "React Awesomesauce",
13         content: "Done!",
14       });
15     }, 3000);
16   }
17
18   render() {
19     const { heading, content } = this.state;
20     return (
21       <main>
22         <h1>{heading}</h1>
23         <p>{content}</p>
24       </main>
25     );
26   }
27   export default MyComponent1_1;

```

Exercise 1.2 :

Demo:



- First
- Second
- Third
- Fourth

Code :

```

JS index.js M JS MyList.js U JS MyButton1.2.js U X JS App.js
src > Component > JS MyButton1.2.js > MyButton1_2 > render
1 import * as React from "react";
2 class MyButton1_2 extends React.Component {
3   render() {
4     const { disabled, text } = this.props;
5     return
6     <button disabled={disabled}>{text}</button>;
7   }
8 }
9 export default MyButton1_2;

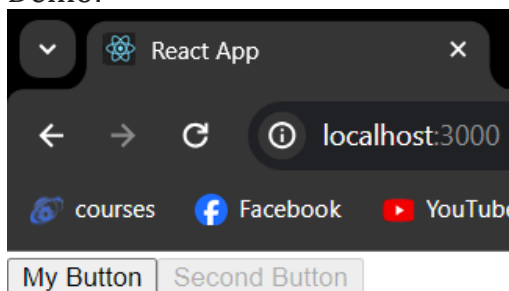
JS index.js M JS MyList.js U X JS MyButton1.2.js U
src > Component > JS MyList.js > default
1 import * as React from "react";
2 class MyList extends React.Component {
3   render() {
4     const { items } = this.props;
5     return (
6       <ul>
7         {items.map((i) => (
8           <li key={i}>{i}</li>
9         ))}
10      </ul>
11    );
12  }
13 }
14 export default MyList;

JS index.js M X JS MyList.js U JS MyButton1.2.js U JS App.js JS MyC
src > JS index.js > render
32 import MyButton1_2 from './Component/MyButton1.2';
33 import MyList from './Component/MyList';
34
35 const root = ReactDOM.createRoot(document.getElementById('root'));
36
37 const appState = {
38   text: "My Button",
39   disabled: true,
40   items: ["First", "Second", "Third"],
41 };
42
43 function render(props) {
44   root.render(
45     <main>
46       <MyButton1_2 text={props.text} disabled={props.disabled} />
47       <MyList items={props.items} />
48     </main>
49   );
50 }
51
52 render(appState);
53
54 setTimeout(() => {
55   appState.disabled = false;
56   appState.items.push("Fourth");
57   render(appState);
58 }, 1000);
59
60
61 reportWebVitals();

```

Exercise 1.3 :

Demo:



Code:

```

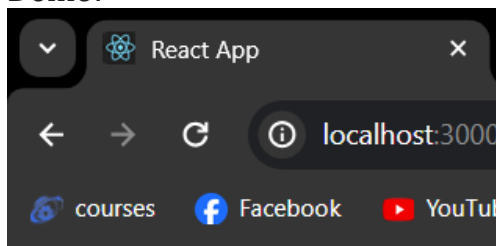
src > Component > JS MyButton1.3.js > default
1  import * as React from "react";
2
3  const MyButton = ({ disabled, text }) => (
4    <button disabled={disabled}>{text}</button>
5  );
6
7  MyButton.defaultProps = {
8    text: "My Button",
9    disabled: false,
10 };
11
12 export default MyButton;

src > JS index.js > render
52 // render(appState);
53
54 // setTimeout(() => {
55 //   appState.disabled = false;
56 //   appState.items.push("Fourth");
57 //   render(appState);
58 // }, 1000);
59
60 //-----Exercise 1.3-----
61 import MyButton1_3 from './Component/MyButton1.3';
62 const root = ReactDOM.createRoot(document.getElementById('root'));
63
64 function render({ second }) {
65   root.render(
66     <main>
67       <MyButton1_3 />
68       <MyButton1_3 text={second.text} disabled={second.disabled} />
69     </main>
70   );
71 }
72
73
74 render({
75   second: {
76     text: "Second Button",
77     disabled: true,
78   },
79 });
80
81 reportWebVitals();

```

Exercise 2.1 :

Demo:



My name is Adam

My age is 35

Code:

```

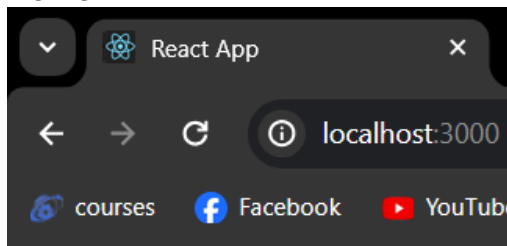
src > Component > JS App2.1.js > App
1  import * as React from "react";
2  export default function App() {
3    const [name] = React.useState("Adam");
4    const [age] = React.useState(35);
5
6    return (
7      <>
8        <p>My name is {name}</p>
9        <p>My age is {age}</p>
10     </>
11   );
12 }

src > JS index.js > ...
80 //-----Exercise 2.1-----
81 import App from './Component/App2.1';
82 const root = ReactDOM.createRoot(document.getElementById('root'));
83 root.render(<App />);
84
85
86
87 reportWebVitals();

```

Exercise 2.2 :

Demo:



khoa

My name is khoa

21

My age is 21

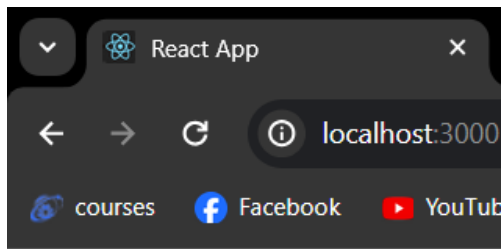
Code:

```
App.test.js M JS index.js M X JS App2.2.js U JS App2.1.js U JS MyList.js U
src > JS index.js > ...
80 //-----Exercise 2.1 -> 2.2-----
81 //import App from './Component/App2.1';
82 import App from './Component/App2.2';
83 const root = ReactDOM.createRoot(document.getElementById('root'));
84 root.render(<App />);
85
86
87
88 reportWebVitals();

JS index.js M JS App2.2.js U X JS App2.1.js U JS MyList.js U JS My
src > Component > JS App2.2.js > default
1 import * as React from "react";
2 function App() {
3   const [name, setName] = React.useState("Adam");
4   const [age, setAge] = React.useState(35);
5
6   return (
7     <>
8       <section>
9         <input
10           value={name}
11           onChange={e => setName(e.target.value)}
12         />
13         <p>My name is {name}</p>
14       </section>
15       <section>
16         <input
17           type="number" value={age}
18           onChange={e => setAge(e.target.value)}
19         />
20         <p>My age is {age}</p>
21       </section>
22     </>
23   );
24 }
25 export default App;
```

Exercise 2.3 :

Demo:



My name is khoa

21

My age is 21

Code :

```

src > JS indexjs > ...
80 //-----Exercise 2.1 -> 2.3-----
81 //import App from './Component/App2.1';
82 //import App from './Component/App2.2';
83 import App from './Component/App2.3';
84 const root = ReactDOM.createRoot(document.getElementById('root'));
85 root.render(<App />);
86
87
88
89 reportWebVitals();

```

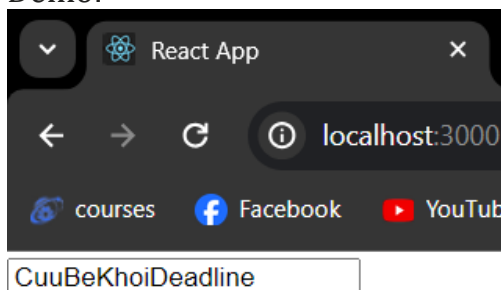
```

src > Component > JS App2.3.js > default
1 import * as React from "react";
2 function App() {
3   const [name, setName] = React.useState("Adam");
4   const [age, setAge] = React.useState(35);
5   return (
6     <>
7       <section>
8         <input
9           value={name}
10          onChange={(e) => setName(e.target.value)}
11        />
12        <p>My name is {name}</p>
13      </section>
14      <section>
15        <input
16          type="number" value={age}
17          onChange={(e) => setAge(e.target.value)}
18        />
19        <p>My age is {age}</p>
20      </section>
21    </>
22  );
23 }
24 export default App;

```

Exercise 3 :

Demo:



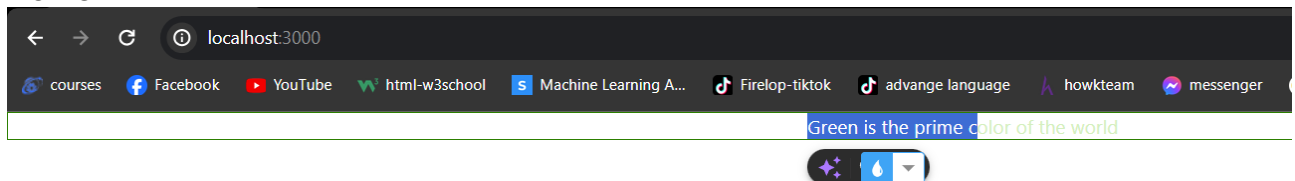
Code:

```
App.test.js M JS index.js M X JS App2.3.js U JS MyInput3.js U JS App2.2
src > JS index.js > ...
86 // root.render(<App />)
87
88 //-----Exercise 3-----
89 import MyInput3 from './Component/MyInput3';
90 const root = ReactDOM.createRoot(document.getElementById('root'));
91 root.render(<MyInput3 />);
92
93
94 reportWebVitals();

src > Component > JS MyInput3.js > default
1 import * as React from "react";
2 class MyInput extends React.Component {
3   onChange() {
4     console.log("changed");
5   }
6   onBlur() {
7     console.log("blurred");
8   }
9   render() {
10    return <input onChange={this.onChange} onBlur={this.onBlur} />;
11  }
12 }
13
14 export default MyInput;
```

Exercise 4.1 :

Demo:



Code :

```
//-----Exercise 4.1-----
import React from 'react';
import ReactDOM from 'react-dom/client';
import reportWebVitals from './reportWebVitals';

const divStyle = {
  textAlign: 'center',
  fontSize: '15px',
  color: '#d0f0c0',
  border: '1px solid green',
};

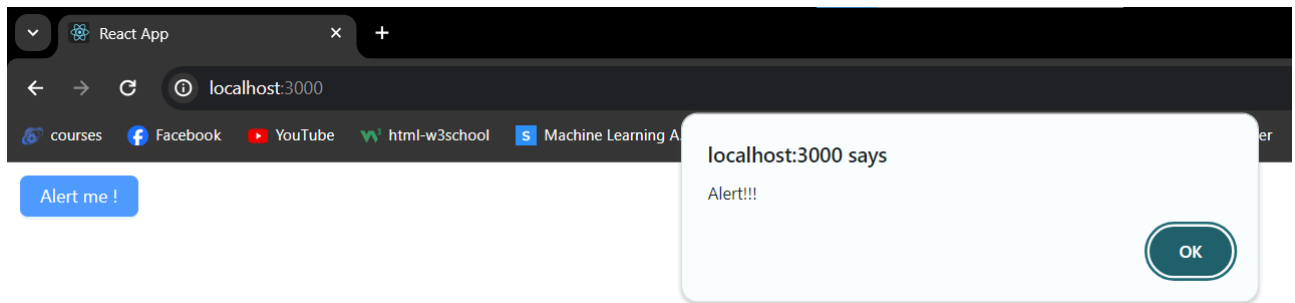
const element = (
  <div style={divStyle} >Green is the prime color of the world</div>
);
const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(element);

reportWebVitals();
```

Exercise 4.2 :

Demo:



Code:

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import reportWebVitals from './reportWebVitals';

import { Button } from "antd";
import "antd/dist/reset.css";

const handleClick = () => {
  alert('Alert!!!');
};

const element = (
  <Button style={{ margin: "10px 10px" }} type="primary"
    onClick={handleClick}>Alert me !</Button>
);

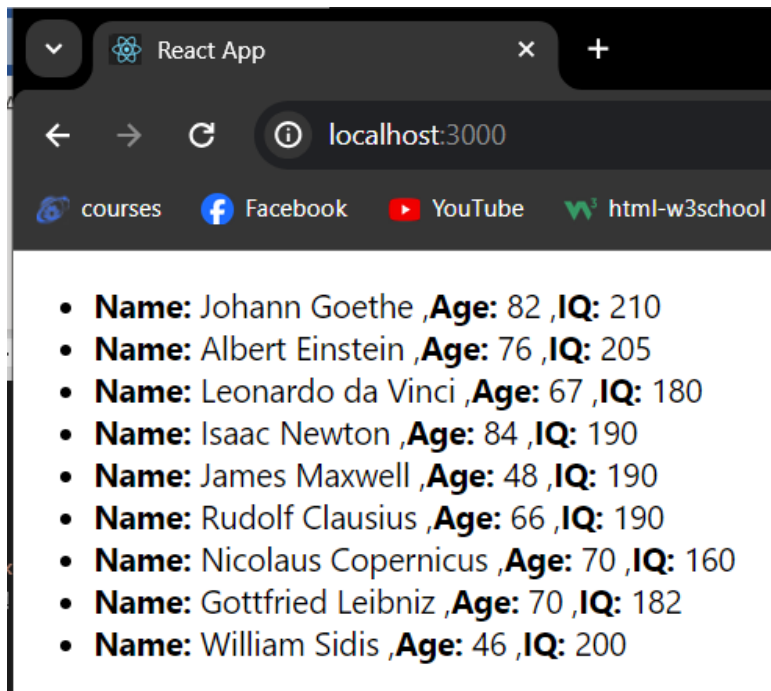
const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(element);

reportWebVitals();
```

Exercise 4.3 :

Demo:



Demo:

```
//-----Exercise 4.3-----
const smartPeople = [
  {name: 'Johann Goethe', age: 82, IQ: 210 },
  { name: 'Albert Einstein', age: 76, IQ: 205 },
  {name: 'Leonardo da Vinci', age: 67, IQ: 180 },
  { name: 'Isaac Newton', age: 84, IQ: 190 },
  {name: 'James Maxwell', age: 48, IQ: 190 },
  { name: 'Rudolf Clausius', age: 66, IQ: 190 },
  {name: 'Nicolaus Copernicus', age: 70, IQ: 160 },
  { name: 'Gottfried Leibniz', age: 70, IQ: 182 },
  {name: 'William Sidis', age: 46, IQ: 200}
]

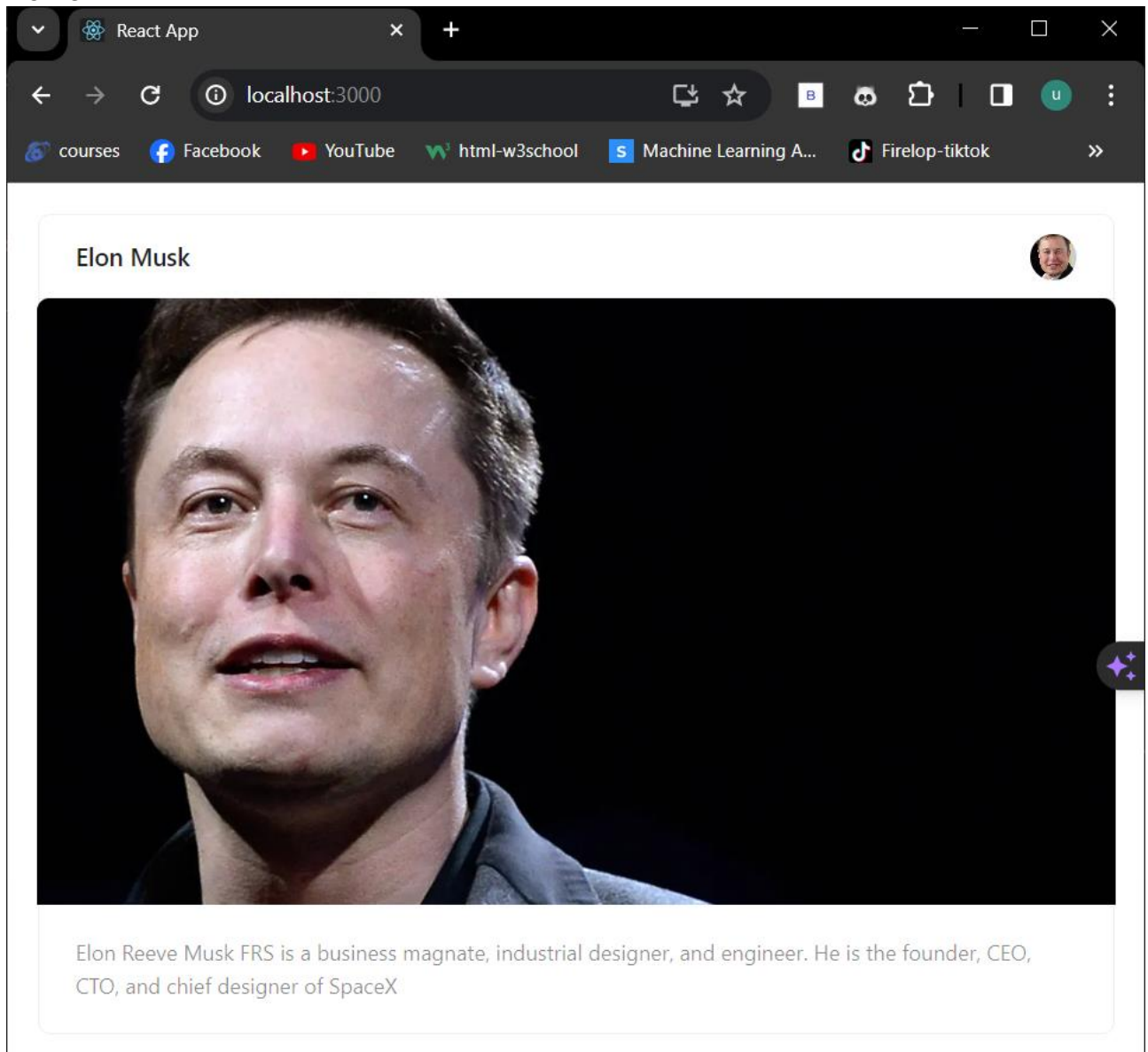
const element = (
  <ul>
    {smartPeople.map((person, index) => (
      <li key={index}>
        <strong>Name:</strong> {person.name} ,
        <strong>Age:</strong> {person.age} ,
        <strong>IQ:</strong> {person.IQ}
      </li>
    ))}
  </ul>
);

// const root = ReactDOM.createRoot(document.getElementById('root'));
// root.render(element);
ReactDOM.createRoot(document.getElementById('root')).render(element);
```

```
reportWebVitals();
```

Exercise 4.4 :

Demo:



Code:

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import reportWebVitals from './reportWebVitals';
import { Card, Avatar } from 'antd';
import "antd/dist/reset.css";
const { Meta } = Card;
```



```
const card = {
  title: 'Elon Musk',
  description: 'Elon Reeve Musk FRS is a business magnate, industrial designer,
and engineer. He is the founder, CEO, CTO, and chief designer of SpaceX',
  avatar: 'http://www.gstatic.com/tv/thumb/persons/487130/487130_v9_bb.jpg',
  cover:
'https://media.vanityfair.com/photos/574f453fbdf148e4205f29df/16:9/w_1200,h_630,
c_limit/hive-contributor-profile-elon-musk.jpg'
};

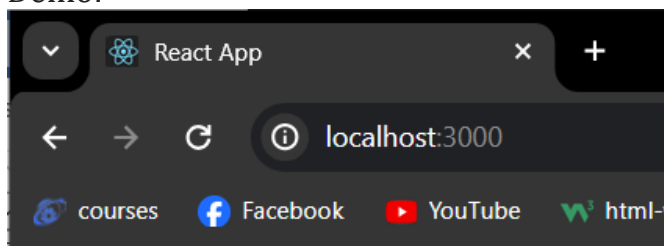
const element = (
  <div style={{ padding: '20px' }}>
    <Card
      title={card.title}
      cover={<img alt="cover" src={card.cover} />}
      extra={<Avatar src={card.avatar} />}
    >
      <Meta description={card.description} />
    </Card>
  </div>
);

ReactDOM.createRoot(document.getElementById('root')).render(element);

reportWebVitals();
```

Exercise 4.5 :

Demo:



firstName: Elon

lastName: Musk

age: 49

Code:

```
//-----Exercise 4.5-----
import React from 'react';
import ReactDOM from 'react-dom/client';
import reportWebVitals from './reportWebVitals';

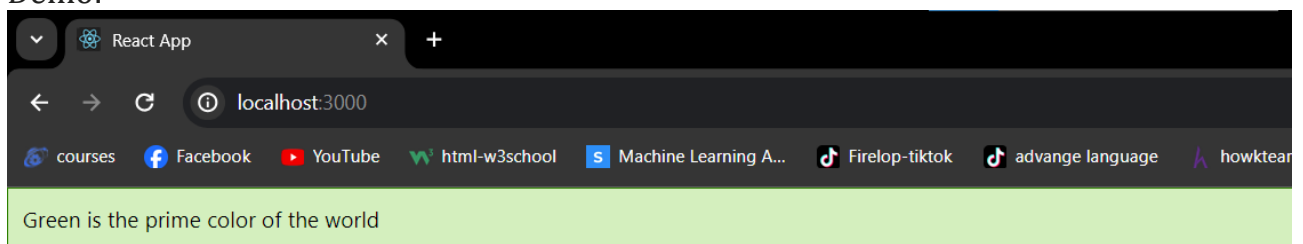
const user = {
  firstName: 'Elon',
  lastName: 'Musk',
  age: 49
}

const element = (
  <div>
    <h1>firstName: {user.firstName}</h1>
    <h1>lastName: {user.lastName}</h1>
    <h1>age: {user.age}</h1>
  </div>
);

ReactDOM.createRoot(document.getElementById('root')).render(element);
reportWebVitals();
```

Exercise 4.6 :

Demo:



Code:

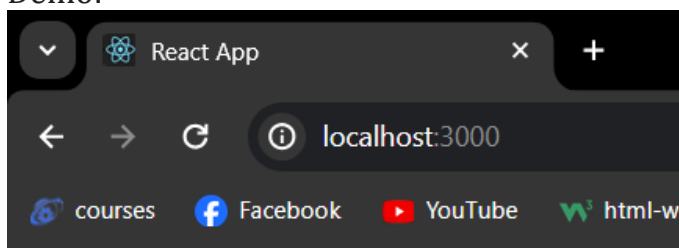
```
//-----Exercise 4.6-----
import React from 'react';
import ReactDOM from 'react-dom/client';
import reportWebVitals from './reportWebVitals';

const divStyle = {
  fontSize: '15px',
  backgroundColor: '#d0f0c0',
  border: '1px solid green',
  padding: '10px',
};
```

```
const element = (  
  <div style={divStyle} >Green is the prime color of the world</div>  
>);  
  
ReactDOM.createRoot(document.getElementById('root')).render(element);  
  
reportWebVitals();
```

Exercise 4.7 :

Demo:



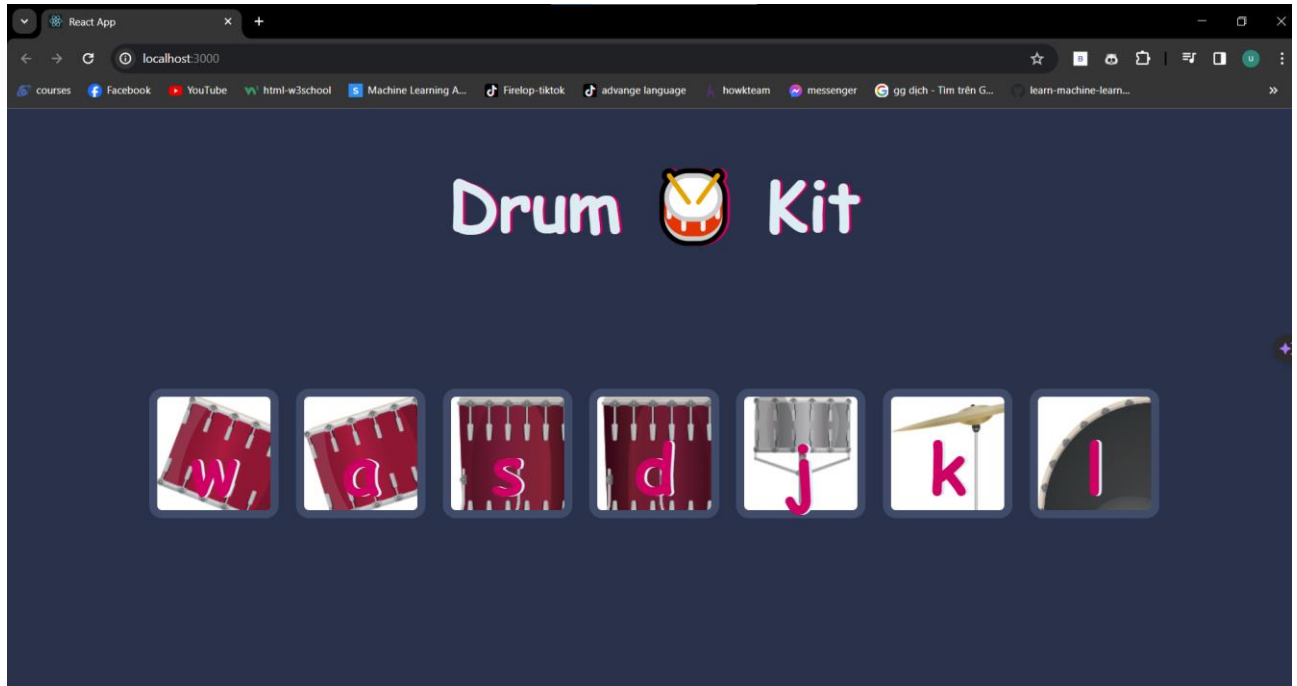
Enter a username:

Code:

```
//-----Exercise 4.7-----  
import React from 'react';  
import ReactDOM from 'react-dom/client';  
import reportWebVitals from './reportWebVitals';  
  
const UserForm = () => {  
  return (  
    <form>  
      <label>Enter a username:</label>  
      <input />  
    </form>  
  );  
}  
  
//Renders the App component into a div with id 'root'  
//ReactDOM.createRoot(document.getElementById('root')).render(<UserForm />);  
//ReactDOM.render(<UserForm />, document.querySelector('#root'));  
ReactDOM.createRoot(document.querySelector('#root')).render(<UserForm />);  
  
reportWebVitals();
```

Homework 1:

Demo:



Code:

App.js

```
import React, { useEffect } from 'react';

const App = () => {
  const buttons = ['w', 'a', 's', 'd', 'j', 'k', 'l'];

  const handleClick = (key) => {
    makeSound(key);
    buttonAnimation(key);
  };

  useEffect(() => {
    buttons.forEach((key) => {
      const button = document.querySelector(`.${key}`);
      button.addEventListener('click', () => handleClick(key));
    });

    document.addEventListener("keypress", function(event) {

      makeSound(event.key);

      buttonAnimation(event.key);

    });
  });

  return () => {
```

```
buttons.forEach((key) => {
  const button = document.querySelector(`.${key}`);
  button.removeEventListener('click', () => handleButtonClick(key));
});

document.addEventListener("keypress", function(event) {

  makeSound(event.key);

  buttonAnimation(event.key);

});
};
}, []);

const makeSound = (key) => {
  switch (key) {
    case "w":
      import('./sounds/tom-1.mp3').then((module) => {
        const tom1 = new Audio(module.default);
        tom1.play();
      });
      break;

    case "a":
      import('./sounds/tom-2.mp3').then((module) => {
        const tom2 = new Audio(module.default);
        tom2.play();
      });
      break;

    case "s":
      import('./sounds/tom-3.mp3').then((module) => {
        const tom3 = new Audio(module.default);
        tom3.play();
      });
      break;

    case "d":
      import('./sounds/tom-4.mp3').then((module) => {
        const tom4 = new Audio(module.default);
        tom4.play();
      });
      break;

    case "j":
      import('./sounds/snare.mp3').then((module) => {
        const snare = new Audio(module.default);
```

```

        snare.play();
    });
    break;

    case "k":
        import('./sounds/crash.mp3').then((module) => {
            const crash = new Audio(module.default);
            crash.play();
        });
        break;

    case "l":
        import('./sounds/kick-bass.mp3').then((module) => {
            const kick = new Audio(module.default);
            kick.play();
        });
        break;

    default:
        console.log(key);
    }
};

const buttonAnimation = (currentKey) => {
    const activeButton = document.querySelector(`.${currentKey}`);

    activeButton.classList.add('pressed');

    setTimeout(() => {
        activeButton.classList.remove('pressed');
    }, 100);
};

return (
    <div>
        <h1 id="title">Drum 🥁 Kit</h1>
        <div className="set">
            {buttons.map((key) => (
                <button key={key} className={`drum ${key}`} onClick={() =>
handleButtonClick(key)}>
                    {key}
                </button>
            ))}
        </div>
    </div>
);
};

```

```
export default App;
```

css file

```
body {
  text-align: center;
  background-color: #283149;
}

h1 {
  font-size: 5rem;
  color: #DBEDF3;
  font-family: "Arvo", cursive;
  text-shadow: 3px 0 #DA0463;
}

.w {
  background-image: url("images/tom1.png");
}

.a {
  background-image: url("images/tom2.png");
}

.s {
  background-image: url("images/tom3.png");
}

.d {
  background-image: url("images/tom4.png");
}

.j {
  background-image: url("images/snare.png");
}

.k {
  background-image: url("images/crash.png");
}

.l {
  background-image: url("images/kick.png");
}

.set {
  margin: 10% auto;
}
```

```
.pressed {
  box-shadow: 0 3px 4px 0 #DBEDF3;
  opacity: 0.5;
}

.red {
  color: red;
}

.drum {
  outline: none;
  border: 10px solid #404B69;
  font-size: 5rem;
  font-family: 'Arvo', cursive;
  line-height: 2;
  font-weight: 900;
  color: #DA0463;
  text-shadow: 3px 0 #DBEDF3;
  border-radius: 15px;
  display: inline-block;
  width: 150px;
  height: 150px;
  text-align: center;
  margin: 10px;
  background-color: white;
}
```

Index.js

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

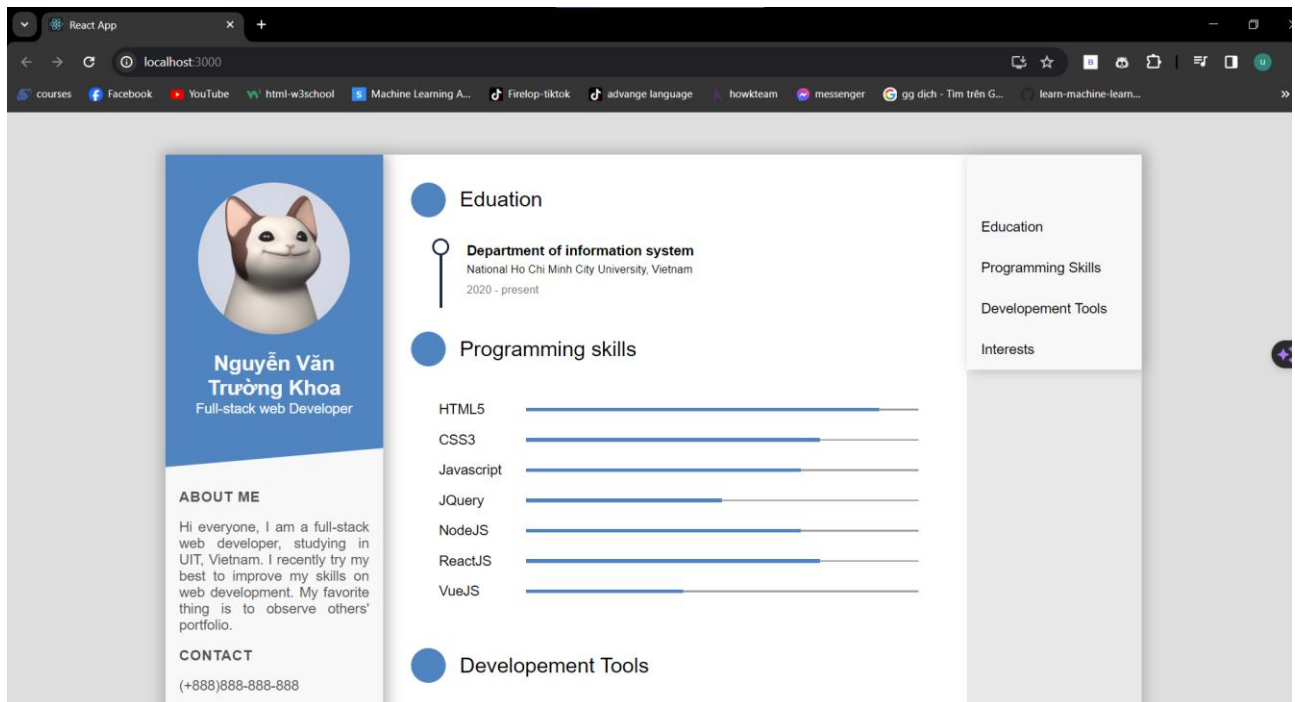
ReactDOM.createRoot(document.querySelector('#root')).render(<App />);
```

Homework 2:

Demo:

Homework 3:

Demo:



Code :
App.js

```
import React, { useRef } from 'react';
import './App.css';
import avatar from './Image/kedi1.png';
import game from './Image/game.png';
import pet from './Image/pet.png';
import music from './Image/music.png';
import book from './Image/book.png';

function App() {
  const education= useRef(null);
  const programskills= useRef(null);
  const developmenttools= useRef(null);
  const interests= useRef(null);

  const scrollToSection = (sectionId) => {

    window.scrollTo({
      top: sectionId.current.offsetTop,
      behavior: 'smooth'
    });
  }

  return (
    <div class="wrapper">
      <div class="intro">.....</div>
    </div>
  );
}
```

```

    </div>
    <div class="detail">
      <div class="detail-section edu" id="education" ref={education}>.....
    </div>
    <div class="detail-section pg-skill" id="program-skills"
ref={programskills}>.....
    </div>
    <div class="detail-section tool-skill" id="development-tools"
ref={developmenttools}>.....
    </div>
    <div class="detail-section interests" id="interests" ref={interests}>...
    </div>
  </div>
  <div id="sidebar">
    <div id="navbar">
      <a href="#" onClick={() => scrollToSection(education)} >
        Education
      </a>
      <a href="#" onClick={() => scrollToSection(programskills)}>
        Programming Skills
      </a>
      <a href="#" onClick={() => scrollToSection(developmenttools)}>
        Development Tools
      </a>
      <a href="#" onClick={() => scrollToSection(interests)}>
        Interests
      </a>
    </div>
  </div>
</div>

);
}

export default App;

```

Index.js

```

import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(<App />);

```

Homework 4:

Demo:

Homework 5:

Demo:

Message : Deadline các môn nhiều quá em làm không nổi bỏ homework 2,4,5.