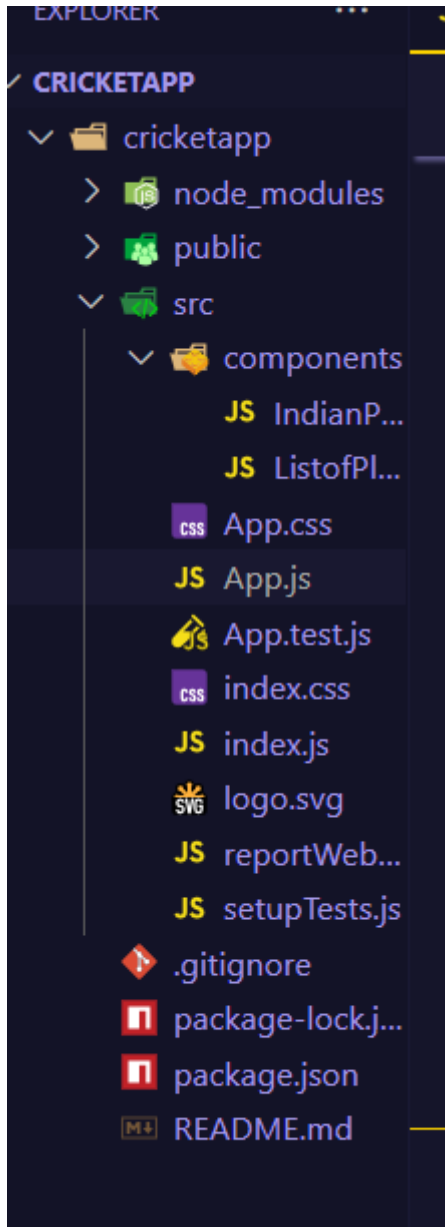


ReactJs Hands-On – 1

Reactjs Setup



App.js

```
import React from 'react';  
  
import ListofPlayers from './components/ListofPlayers';  
  
import { OddEvenPlayers, MergedPlayersList } from './components/IndianPlayers';  
  
function App() {  
  const flag = false;
```

```

const players = [
  { name: 'Mr. Jack', score: 50 },
  { name: 'Mr. Michael', score: 70 },
  { name: 'Mr. John', score: 40 },
  { name: 'Mr. Ann', score: 61 },
  { name: 'Mr. Elisabeth', score: 61 },
  { name: 'Mr. Sachin', score: 95 },
  { name: 'Mr. Dhoni', score: 100 },
  { name: 'Mr. Virat', score: 84 },
  { name: 'Mr. Jadeja', score: 64 },
  { name: 'Mr. Raina', score: 75 },
  { name: 'Mr. Rohit', score: 80 },
];

const IndianTeam = ['Sachin1', 'Dhoni2', 'Virat3', 'Rohit4', 'Yuvaraj5', 'Raina6'];
const T20Players = ['Mr. First Player', 'Mr. Second Player', 'Mr. Third Player'];
const RanjiTrophyPlayers = ['Mr. Fourth Player', 'Mr. Fifth Player', 'Mr. Sixth Player'];
const IndianPlayersList = [...T20Players, ...RanjiTrophyPlayers];

return (
  <div style={{ padding: '20px', fontFamily: 'Arial, sans-serif' }}>
    {flag ? (
      <ListofPlayers players={players} />
    ) : (
      <>
        <OddEvenPlayers team={IndianTeam} />
        <hr />
        <MergedPlayersList players={IndianPlayersList} />
      </>
    )}
  </div>

```

```
);  
}  
export default App;
```

ListofPlayers.js

```
import React from 'react';  
const ListofPlayers = ({ players }) => {  
  const players70 = [];  
  players.map((item) => {  
    if (item.score <= 70) {  
      players70.push(item);  
    }  
    return null;  
  });  
  return (  
    <div>  
      <h2>List of Players</h2>  
      <ul>  
        {players.map((item, index) => (  
          <div key={index}>  
            <li>  
              Mr. {item.name} <span>{item.score}</span>  
            </li>  
          </div>  
        ))}  
      </ul>  
      <hr />  
      <h2>List of Players having Scores Less than 70</h2>  
      <ul>
```

```
{players70.map((item, index) => (  
  <li key={index}>  
    Mr. {item.name} <span>{item.score}</span>  
  </li>  
  )}  
</ul>  
</div>  
);  
};  
export default ListofPlayers;
```

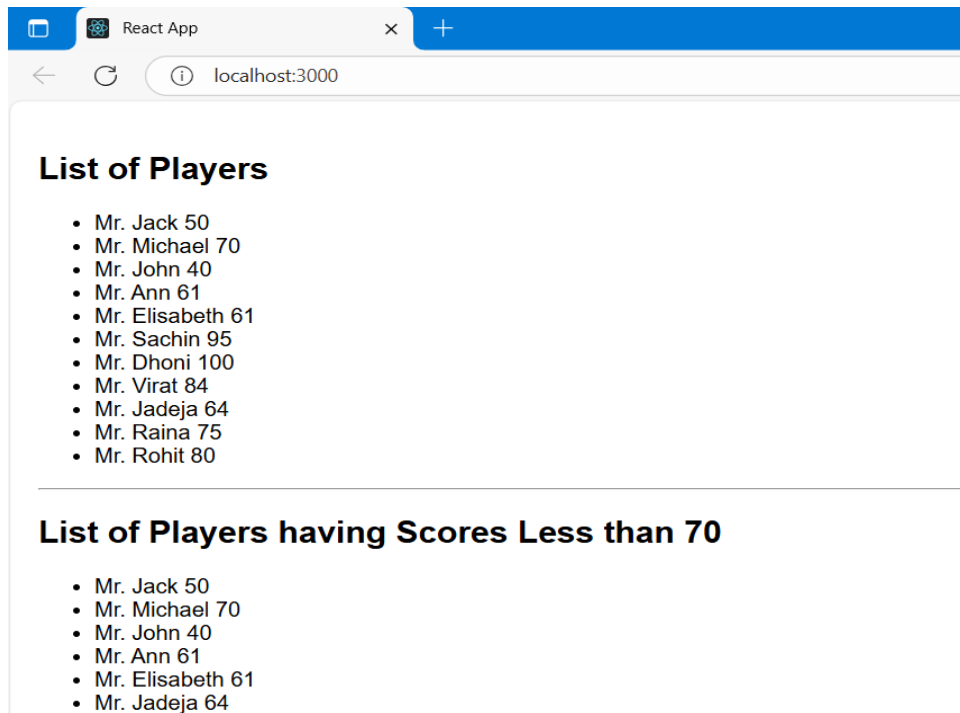
IndianPlayers.js

```
import React from 'react';  
export function OddEvenPlayers({ team }) {  
  const [first, second, third, fourth, fifth, sixth] = team;  
  return (  
    <div>  
      <h2>Odd Players</h2>  
      <ul>  
        <li>First : {first}</li>  
        <li>Third : {third}</li>  
        <li>Fifth : {fifth}</li>  
      </ul>  
      <hr />  
      <h2>Even Players</h2>  
      <ul>  
        <li>Second : {second}</li>  
        <li>Fourth : {fourth}</li>  
        <li>Sixth : {sixth}</li>
```

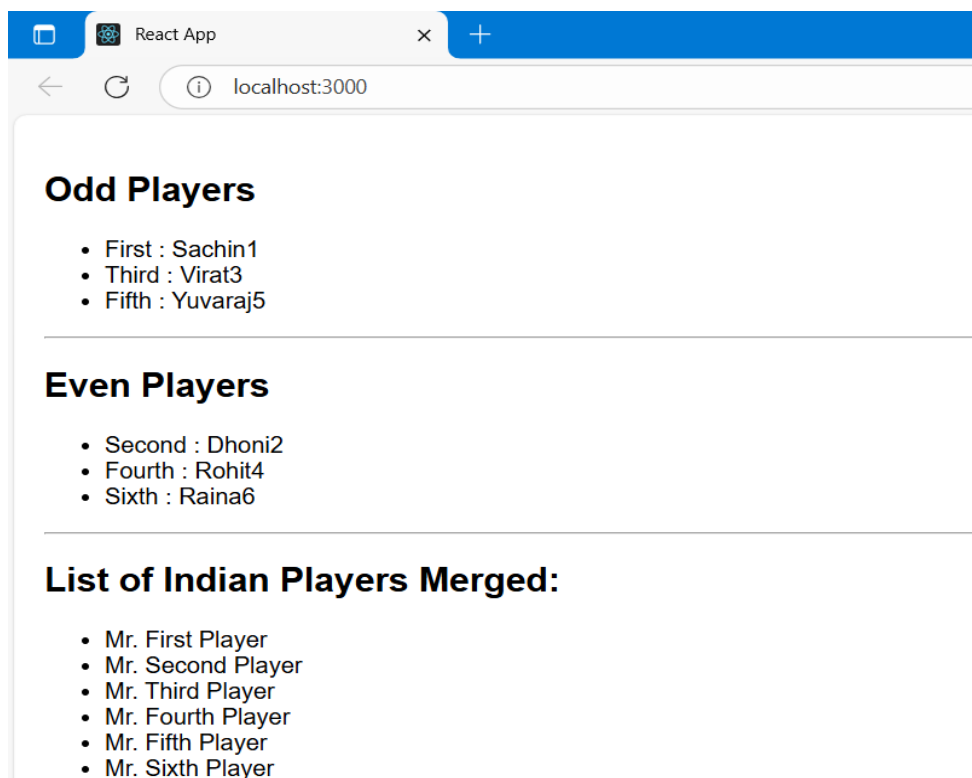
```
        </ul>
    </div>
);
}

export function MergedPlayersList() {
    const T20Players = ['Mr. First Player', 'Mr. Second Player', 'Mr. Third Player'];
    const RanjiTrophyPlayers = ['Mr. Fourth Player', 'Mr. Fifth Player', 'Mr. Sixth Player'];
    const IndianPlayers = [...T20Players, ...RanjiTrophyPlayers];
    return (
        <div>
            <h2>List of Indian Players Merged:</h2>
            <ul>
                {IndianPlayers.map((player, index) => (
                    <li key={index}>{player}</li>
                ))}
            </ul>
        </div>
    );
}
```

Output (When Flag = true)



Output (When Flag = false)



ReactJs Hands-On – 2

App.js

```
import React from 'react';
import './App.css';
function App() {
  const heading = "Office Space";
  const office = {
    Name: "DBS",
    Rent: 50000,
    Address: "Chennai"
  };
  return (
    <div className="container">
      <h1>{heading} , at Affordable Range</h1>
      
      <h2>Name: {office.Name}</h2>
      <h3 className={office.Rent <= 60000 ? 'textRed' : 'textGreen'}>
        Rent: Rs. {office.Rent}
      </h3>
      <h3>Address: {office.Address}</h3>
    </div>
  );
}
export default App;
```

App.css

```
.container {
  padding: 30px;
```

```
font-family: Arial, sans-serif;
}
.textRed {
  color: red;
}
.textGreen {
  color: green;
}
```

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 />);
```

Output

Office Space , at Affordable Range



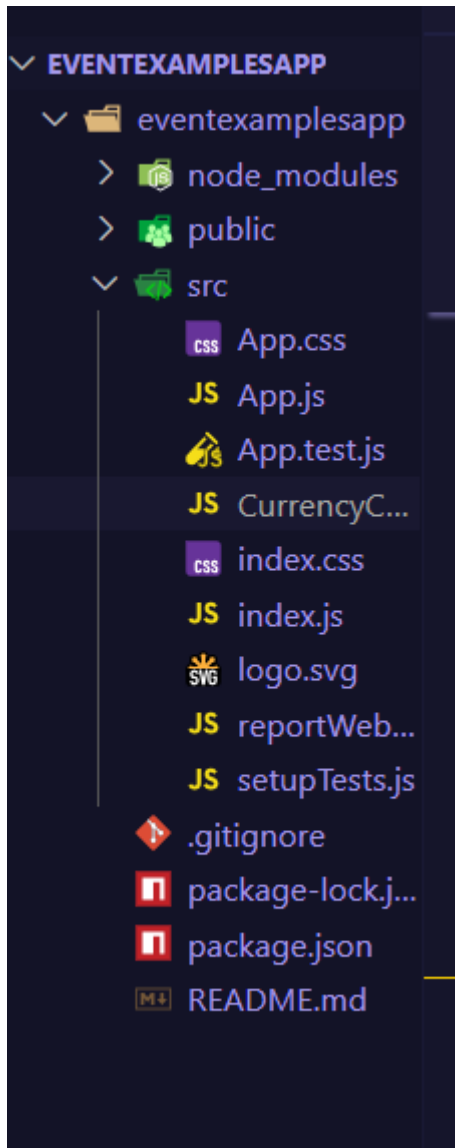
Name: DBS

Rent: Rs. 50000

Address: Chennai

ReactJs Hands-On – 3

ReactJS Setup



App.js

```
import React, { useState } from 'react';
import CurrencyConvertor from './CurrencyConvertor';
import './App.css';
function App() {
  const [count, setCount] = useState(5);
  const increment = () => {
    setCount(prev => prev + 1);
```

```
    alert("Hello! Member1");
  };
  const decrement = () => {
    setCount(prev => prev - 1);
  };
  const sayWelcome = () => {
    alert("welcome");
  };
  const handleClick = () => {
    alert("I was clicked");
  };
  return (
    <div className="app-container">
      <h1>{count}</h1>
      <div className="vertical-controls">
        <button onClick={increment}>Increment</button>
        <button onClick={decrement}>Decrement</button>
        <button onClick={sayWelcome}>Say welcome</button>
        <button onClick={handleClick}>Click on me</button>
      </div>
      <hr />
      <CurrencyConvertor />
    </div>
  );
}
export default App;
```

CurrencyConvertor.js

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

function CurrencyConvertor() {

  const [amount, setAmount] = useState("");
  const [currency, setCurrency] = useState("");
  const handleSubmit = (e) => {
    e.preventDefault();

    const rate = 80;

    if (currency.trim().toLowerCase() === 'euro') {
      const converted = parseFloat(amount) * rate;

      alert(`Converting to Euro Amount is ${converted.toFixed(2)}`);
      setCurrency(`€${converted.toFixed(2)}`);
    } else {
      alert("Please enter 'Euro' as the currency to convert.");
    }
  };

  return (
    <div className="converter">
      <h2>Currency Convertor!!!</h2>
      <form onSubmit={handleSubmit}>
        <label>
          Amount:
          <input
            type="number"
            value={amount}
            onChange={(e) => setAmount(e.target.value)}
          />
        </label>
        <label>
```

```
    Currency:
    <input
      type="text"
      value={currency}
      onChange={(e) => setCurrency(e.target.value)}
    />
  </label>

  <button type="submit" className="submit-button">Submit</button>
</form>
</div>
);
}
export default CurrencyConvertor;
```

App.css

```
body {
  font-family: Arial, sans-serif;
  background-color: #f8f8f8;
}
.app-container {
  padding: 20px;
}
h1 {
  font-size: 36px;
  margin-bottom: 15px;
  color: #333;
}
.vertical-controls {
  display: flex;
```

```
flex-direction: column;
align-items: flex-start;
gap:10px;
margin-bottom: 20px;
}
.vertical-controls button {
padding: 10px 20px;
font-size: 16px;
}
.converter {
background-color: #fff;
padding: 20px;
border-radius: 6px;
box-shadow: 0 0 8px rgba(0, 0, 0, 0.1);
}
.converter h2 {
color: green;
font-size: 24px;
margin-bottom: 20px;
}
label {
display: block;
margin-bottom: 10px;
font-weight: bold;
}
input[type="number"],
input[type="text"] {
width: 100%;
padding: 8px;
```

```

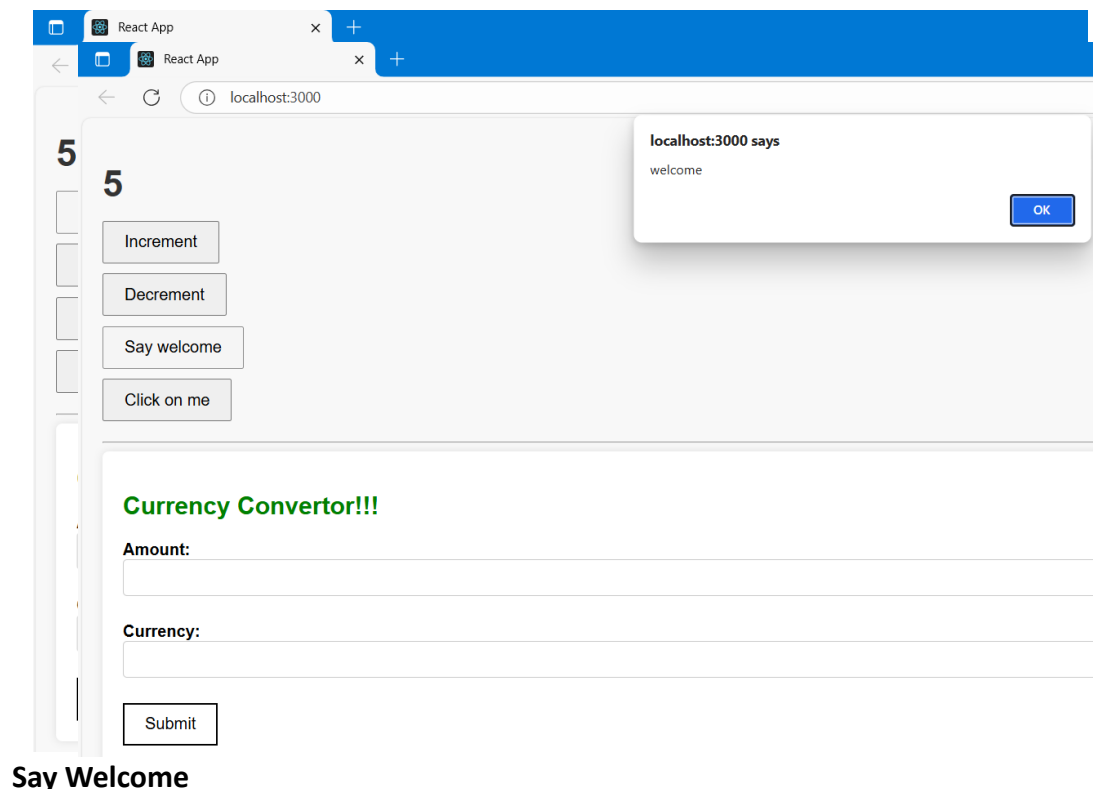
font-size: 16px;
margin-bottom: 15px;
border: 1px solid #ccc;
border-radius: 4px;
}

.submit-button {
background-color: white;
color: black;
font-size: 16px;
padding: 10px 20px;
border: 2px solid black;
cursor: pointer;
}

```

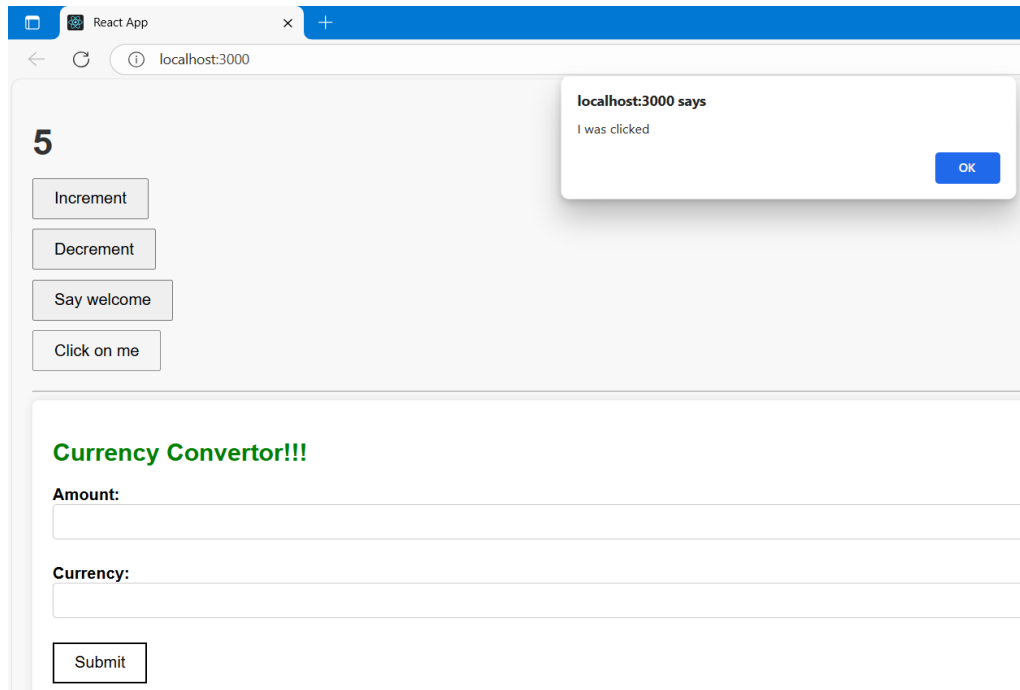
Output

Increment

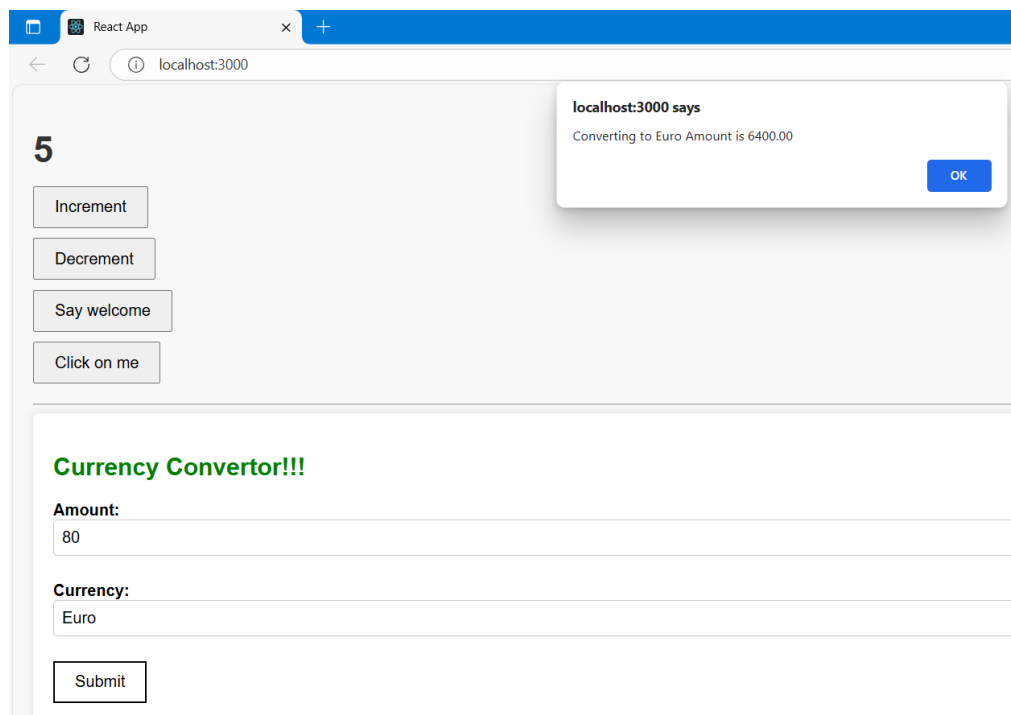


Say Welcome

OnPress

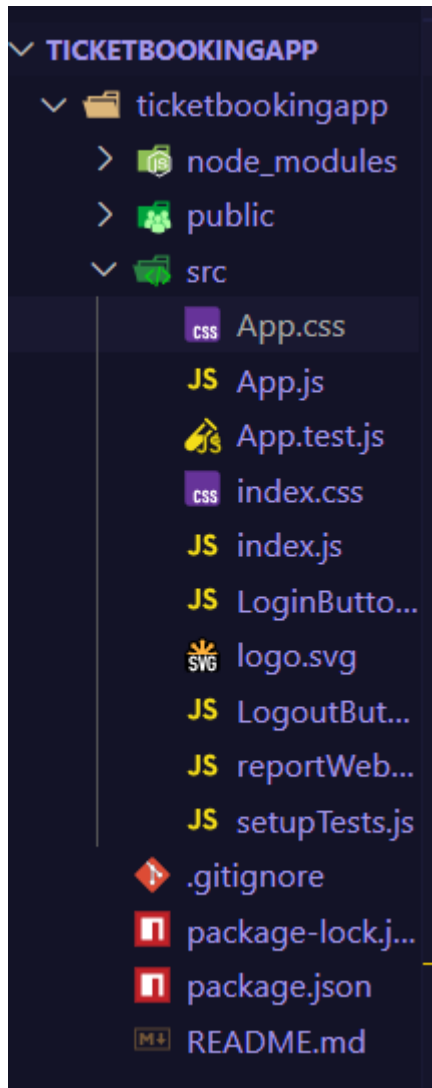


CurrencyConverter



ReactJs Hands-On – 4

ReactJS Setup



App.js

```
import React, { useState } from "react";
import LoginButton from "./LoginButton";
import LogoutButton from "./LogoutButton";
import "./App.css";
function App() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);
  const handleClick = () => {
    setIsLoggedIn(prev => !prev);
  }
}
```



```

    };
    return (
      <div className="container">
        <p>{isLoggedIn ? "Welcome back" : "Please sign up."}</p>
        {isLoggedIn ? (
          <LogoutButton onClick={handleClick} />
        ) : (
          <LoginButton onClick={handleClick} />
        )}
      </div>
    );
  }
  export default App;

```

LoginButton.js

```

function LoginButton({ onClick }) {
  return (
    <button onClick={onClick}>Login</button>
  );
}
export default LoginButton;

```

LogoutButton.js

```

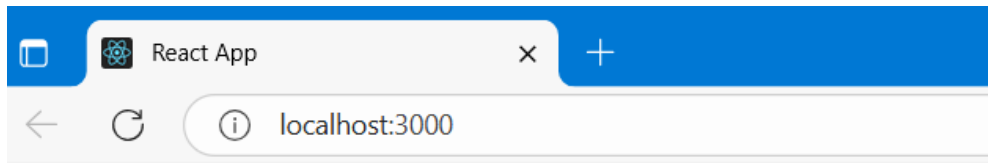
function LoginButton({ onClick }) {
  return (
    <button onClick={onClick}>Login</button>
  );
}
export default LoginButton;

```

App.css

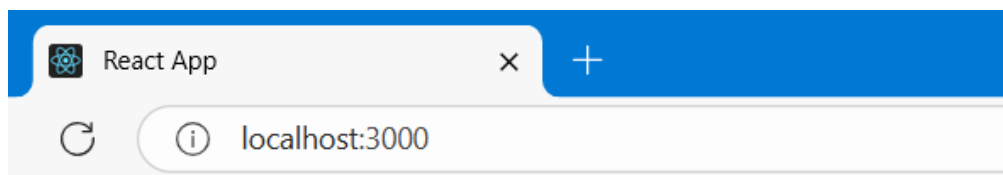
```
body {  
  margin: 0;  
  padding: 0;  
  font-family: Arial, sans-serif;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  height: 50vh;  
}  
  
.container {  
  text-align: left;  
}  
  
h1 {  
  font-size: 24px;  
  margin-bottom: 10px;  
}  
  
p {  
  font-size: 32px;  
  font-weight: bold;  
  margin-bottom: 20px;  
  font-family: Arial, sans-serif;  
}
```

Output



Please sign up.

Login

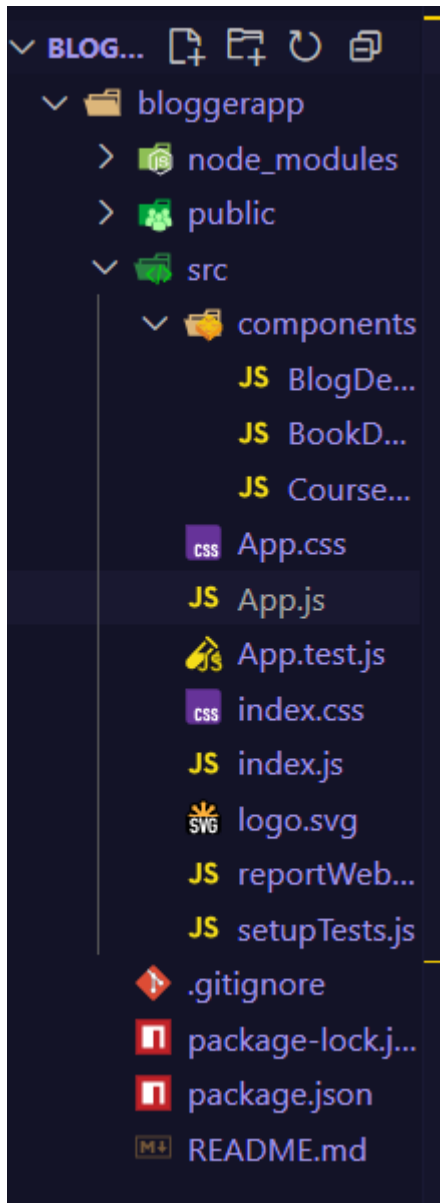


Welcome back

Logout

ReactJs Hands-On – 5

ReactJS Setup



App.js

```
import React from 'react';  
import './App.css';  
import BookDetails from './components/BookDetails';  
import BlogDetails from './components/BlogDetails';  
import CourseDetails from './components/CourseDetails';
```

```
const books = [  
  { id: 101, bname: 'Master React', price: 670 },  
  { id: 102, bname: 'Deep Dive into Angular 11', price: 800 },  
  { id: 103, bname: 'Mongo Essentials', price: 450 },  
];  
  
const blogs = [  
  { id: 1, title: 'React Learning by Stephen Biz', content: 'Welcome to learning React!' },  
  { id: 2, title: 'Installation by Schewzdenier', content: 'You can install React from npm.' },  
];  
  
const courses = {  
  angular: '4/5/2021',  
  react: '6/3/2021',  
};  
  
function App() {  
  return (  
    <div>  
      <div>  
        <div className="mystyle1">  
          <h1>Course Details</h1>  
          <CourseDetails courses={courses} />  
        </div>  
        <div className="st2">  
          <h1>Book Details</h1>  
          <BookDetails books={books} />  
        </div>  
        <div className="v1">  
          <h1>Blog Details</h1>  
          <BlogDetails blogs={blogs} />  
        </div>  
      </div>  
    )  
  )  
}
```

```
        </div>
      </div>
    );
  }
export default App;
```

BookDetails.js

```
import React from 'react';

function BookDetails(props) {
  const bookdet = (
    <ul>
      {props.books && props.books.length > 0 ? (
        props.books.map((book) => (
          <div key={book.id}>
            <h3>{book.bname}</h3>
            <h4>{book.price}</h4>
          </div>
        ))
      ) : (
        <p>No Books Available</p>
      )}
    </ul>
  );
  return bookdet;
}

export default BookDetails;
```

BlogDetails.js

```
import React from 'react';
```

```

function BlogDetails(props) {
  return (
    <>
      {props.blogs && props.blogs.length > 0 ? (
        props.blogs.map((blog) => {
          const [mainTitle, author] = blog.title.split(' by ');
          return (
            <div key={blog.id}>
              <strong>{mainTitle}</strong>
              <p><b>{author}</b></p>
              <p>{blog.content}</p>
            </div>
          );
        })
      ) : (
        <p>No Blogs Available</p>
      )}
    </>
  );
}

export default BlogDetails;

```

CourseDetails.js

```

import React from 'react';

function CourseDetails(props) {
  const { courses } = props;

  return (
    <>

```

```
{'angular' in courses && (  
  <>  
    <h3>Angular</h3>  
    <p>{courses.angular}</p>  
  </>  
)}  
{'react' in courses && (  
  <>  
    <h3>React</h3>  
    <p>{courses.react}</p>  
  </>  
)}  
</>  
);  
}  
export default CourseDetails;
```

App.css

```
.st2, .v1, .mystyle1 {  
  display: inline-block;  
  vertical-align: top;  
  width: 30%;  
  padding-left: 30px;  
  border-left: 4px solid green;  
  min-height: 300px;  
  margin-top: 40px;  
}  
h1 {  
  font-size: 24px;
```



```
font-weight: bold;
}
h3, strong {
font-size: 20px;
font-weight: bold;
}
```

Output

