React 9:

ListofPlayers.js

```jsx
import React from 'react';
const players = [
  { name: "Kane Williamson", score: 100 },
  { name: "Steve Smith", score: 70 },
  { name: "ABD", score: 40 },
  { name: "Joe Root", score: 61 },
  { name: "Conway", score: 61 },
  { name: "Sachin", score: 95 },
  { name: "Dhoni", score: 100 },
  { name: "Virat", score: 84 },
  { name: "Jadeja", score: 64 },
  { name: "Raina", score: 75 },
  { name: "Rohit", score: 80 },
];
export default function ListofPlayers() {
  const players70 = players.filter((item) => item.score <= 70);

  return (
    <div>
      <h2>List of Players</h2>
      <ul>
        {players.map((item, index) => (
          <li key={index}>Mr. {item.name}
<span>{item.score}</span></li>
        ))}
      </ul>

      <h3>List of Players having Scores Less than 70</h3>
      <ul>
        {players70.map((item, index) => (
          <li key={index}>Mr. {item.name}</li>
        ))}
      </ul>
    </div>
  );
}
```

IndianPlayers.js:

```jsx
import React from 'react';
export function OddPlayers({ players }) {
```

```jsx
    const [first, , third, , fifth] = players;
    return (
      <div>
        <h3>Odd Players</h3>
        <ul>
          <li>First : {first}</li>
          <li>Third : {third}</li>
          <li>Fifth : {fifth}</li>
        </ul>
      </div>
    );
}
export function EvenPlayers({ players }) {
    const [, second, , fourth, , sixth] = players;
    return (
      <div>
        <h3>Even Players</h3>
        <ul>
          <li>Second : {second}</li>
          <li>Fourth : {fourth}</li>
          <li>Sixth : {sixth}</li>
        </ul>
      </div>
    );
}
const T20Players = ["First Player","Second Player","Third Player"];
const RanjiTrophyPlayers = ["Fourth Player","Fifth Player","Sixth
Player"];
const IndianPlayersMerged = [...T20Players, ...RanjiTrophyPlayers];
export function IndianPlayers() {
    return (
      <div>
        <h3>List of Indian Players Merged:</h3>
        <ul>
          {IndianPlayersMerged.map((player, index) => (
            <li key={index}>Mr. {player}</li>
          ))}
        </ul>
      </div>
    );
}
```
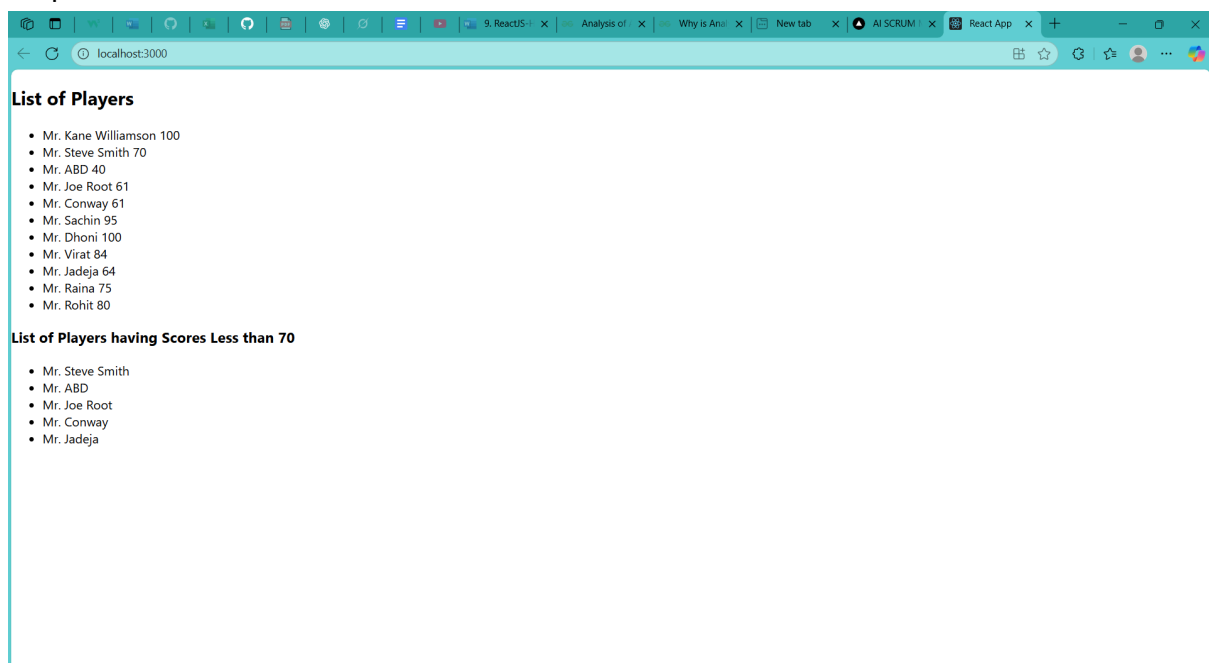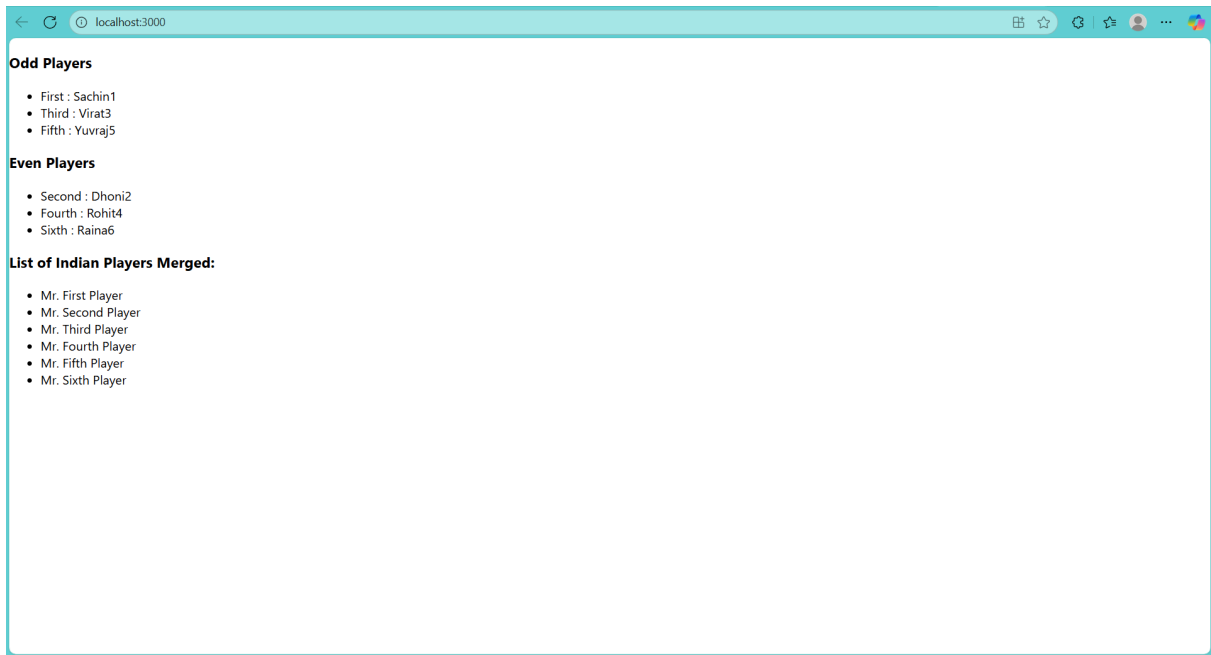
```
import React from 'react';
import ListofPlayers from './ListofPlayers';
import { OddPlayers, EvenPlayers, IndianPlayers } from
'./IndianPlayers';
function App() {
  const flag = true ;
  const playersList = ["Sachin1", "Dhoni2", "Virat3", "Rohit4",
"Yuvraj5", "Raina6"];
  return (
    <div className="App">
      {flag ? (
        <ListofPlayers />
      ) : (
        <>
          <OddPlayers players = {playersList} />
          <EvenPlayers players = {playersList} />
          <IndianPlayers />
        </>
      )}
    </div>
  );
}
export default App;
```

Output:

List of Players

- Mr. Kane Williamson 100
- Mr. Steve Smith 70
- Mr. ABD 40
- Mr. Joe Root 61
- Mr. Conway 61
- Mr. Sachin 95
- Mr. Dhoni 100
- Mr. Virat 84
- Mr. Jadeja 64
- Mr. Raina 75
- Mr. Rohit 80

List of Players having Scores Less than 70

- Mr. Steve Smith
- Mr. ABD
- Mr. Joe Root
- Mr. Conway
- Mr. Jadeja

Odd Players

- First : Sachin1
- Third : Virat3
- Fifth : Yuvraj5

Even Players

- Second : Dhoni2
- Fourth : Rohit4
- Sixth : Raina6

List of Indian Players Merged:

- Mr. First Player
- Mr. Second Player
- Mr. Third Player
- Mr. Fourth Player
- Mr. Fifth Player
- Mr. Sixth Player

React10:

App.js:

```jsx
import React from 'react';
import './App.css';
import img1 from "./assets/img-1.webp";
import img2 from "./assets/img-2.jpg";
import img3 from "./assets/img-3.webp";

function App() {
  const heading = "Office Space";
  const officeList = [
    {
      Name: "DBS",
      Rent: 50000,
      Address: "Chennai",
      Image: img1
    },
    {
      Name: "WeWork",
      Rent: 70000,
      Address: "Bangalore",
      Image: img2
    },
    {
      Name: "Regus",
      Rent: 35000,
```

```jsx
            Address: "Mumbai",
            Image: img3
        }
    ];
    return (
        <div className="App">
            <h1>{heading} , at Affordable Range</h1>
            {officeList.map((item, index) => {
                const rentColor = item.Rent <= 60000 ? 'textRed' : 'textGreen';
                return (
                    <div key={index} style={{ marginBottom: "2rem" }}>
                        <img src={item.Image} width="50%" alt="Office Space" />
                        <h2>Name: {item.Name}</h2>
                        <h3 className={rentColor}>Rent: Rs. {item.Rent}</h3>
                        <h3>Address: {item.Address}</h3>
                    </div>
                );
            })}
        </div>
    );
}
export default App;
```

App.css:
```css
.textRed {
  color: red;
  font-weight: bold;
}

.textGreen {
  color: green;
  font-weight: bold;
}

.App {
  text-align: center;
  font-family: Arial, sans-serif;
}
```
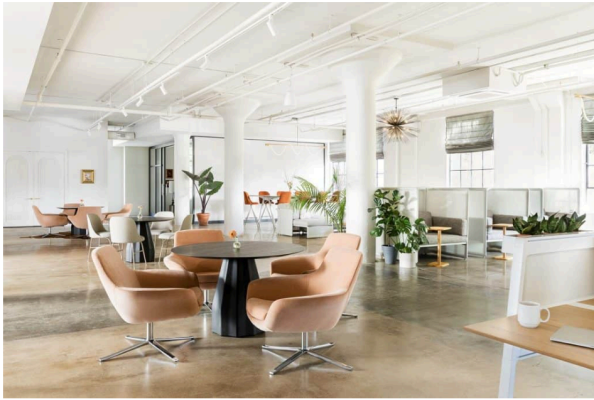
Output:

React 11:
App.js:

```jsx
import React, { useState } from 'react';
import CurrencyConverter from './CurrencyConverter';

function App() {
  const [count, setCount] = useState(0);

  function handleIncrement() {
    setCount(prev => prev + 1);
    sayHello();
  }

  function handleDecrement() {
    setCount(prev => prev - 1);
  }

  function sayHello() {
    alert("Hello Member1");
  }

  function showWelcome(message) {
    alert(message);
  }

  function handleClick(e) {
    alert("I was clicked");
    console.log("Synthetic event:", e);
  }

  return (
    <div style={{ padding: '20px' }}>
      <h2>Counter: {count}</h2>
      <button onClick={handleIncrement}>Increment</button>
      <button onClick={handleDecrement}>Decrement</button>
      <br/><br/>
      <button onClick={() => showWelcome("Welcome!")}>Say
welcome</button>
      <br/><br/>
      <button onClick={handleClick}>Click on me</button>
      <br/><br/>
      <CurrencyConverter />
```

```
    </div>
  );
}


export default App;
```

CurrencyConverter.js:

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

function CurrencyConverter() {
  const [amount, setAmount] = useState('');
  const [currency, setCurrency] = useState('');

  function handleSubmit(e) {
    e.preventDefault();
    if (currency.toLowerCase() === 'euro') {
      const converted = amount * 80;
      alert(`Converting to Euro Amount is ₹${converted}`);
    } else if (currency.toLowerCase() === 'rupees') {
      const converted = amount / 80;
      alert(`Converting to Rupees Amount is €${converted}`);
    } else {
      alert("Unsupported currency. Please type 'euro' or 'rupees'");
    }
  }

  return (
    <div>
      <h2 style={{ color: 'green' }}>Currency Converter</h2>
      <form onSubmit={handleSubmit}>
        <label>Amount: </label>
        <input
          type="number"
          value={amount}
          onChange={(e) => setAmount(e.target.value)}
          required
        />
        <br />
        <label>Currency (euro/rupees): </label>
        <input
          value={currency}
```
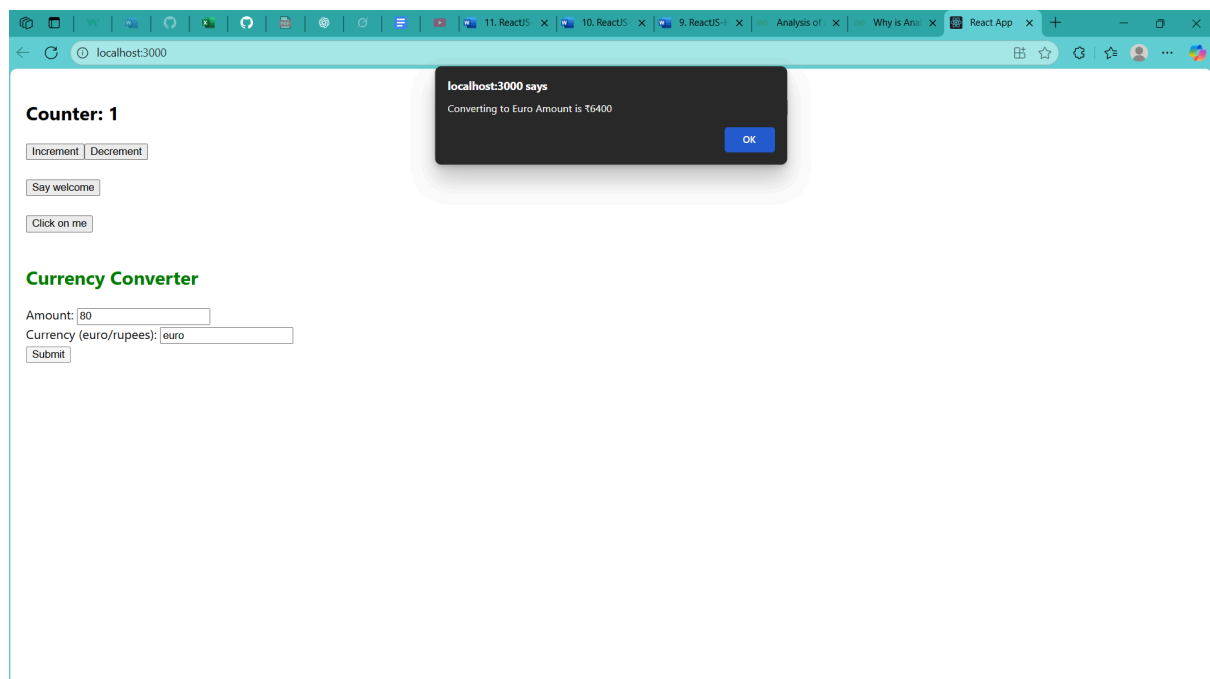
```
                onChange={(e) => setCurrency(e.target.value)}
                required
            />
            <br />
            <button type="submit">Submit</button>
        </form>
    </div>
    );
}


export default CurrencyConverter;
```
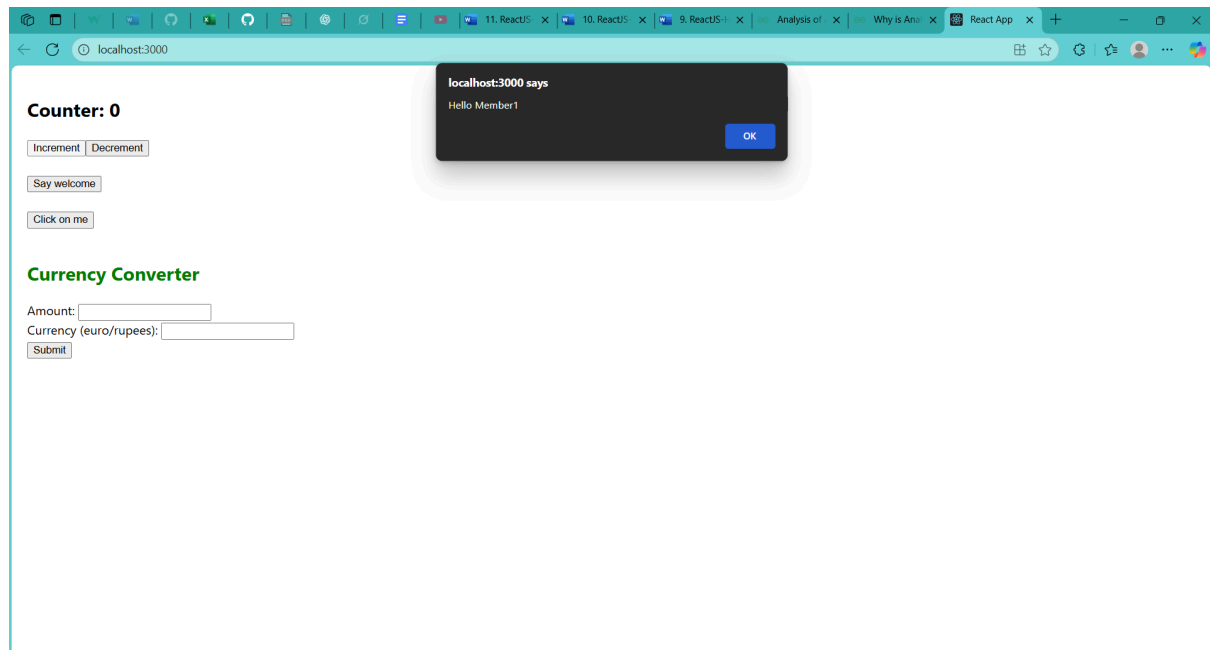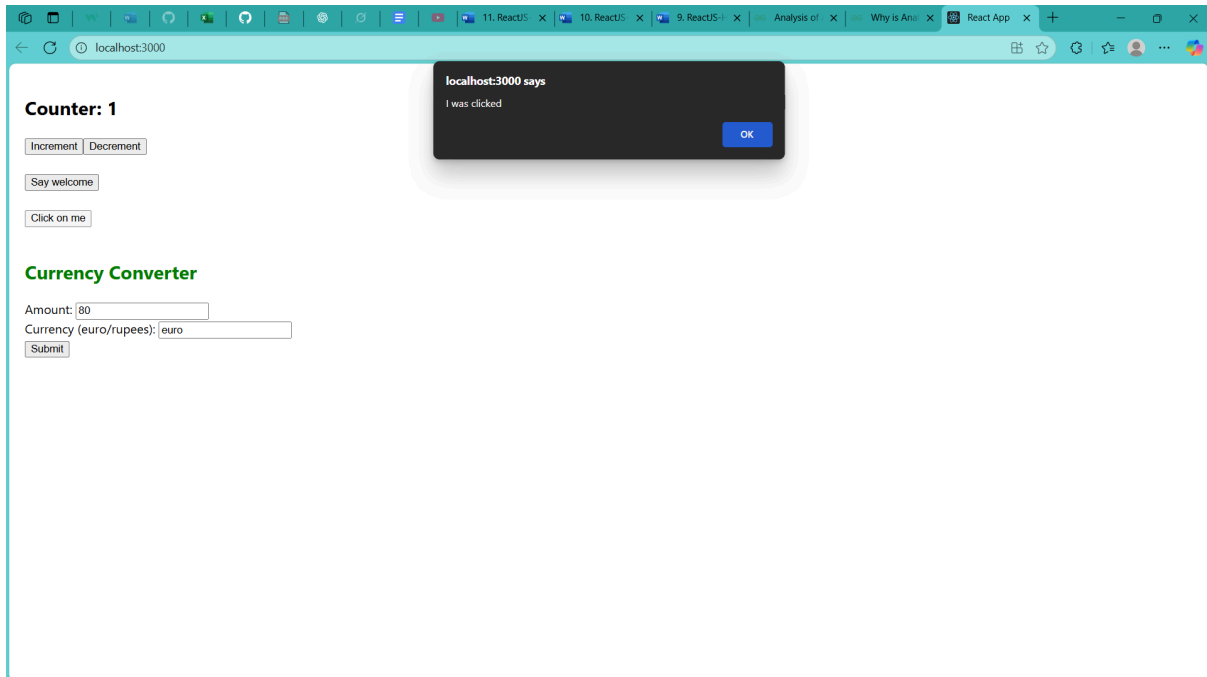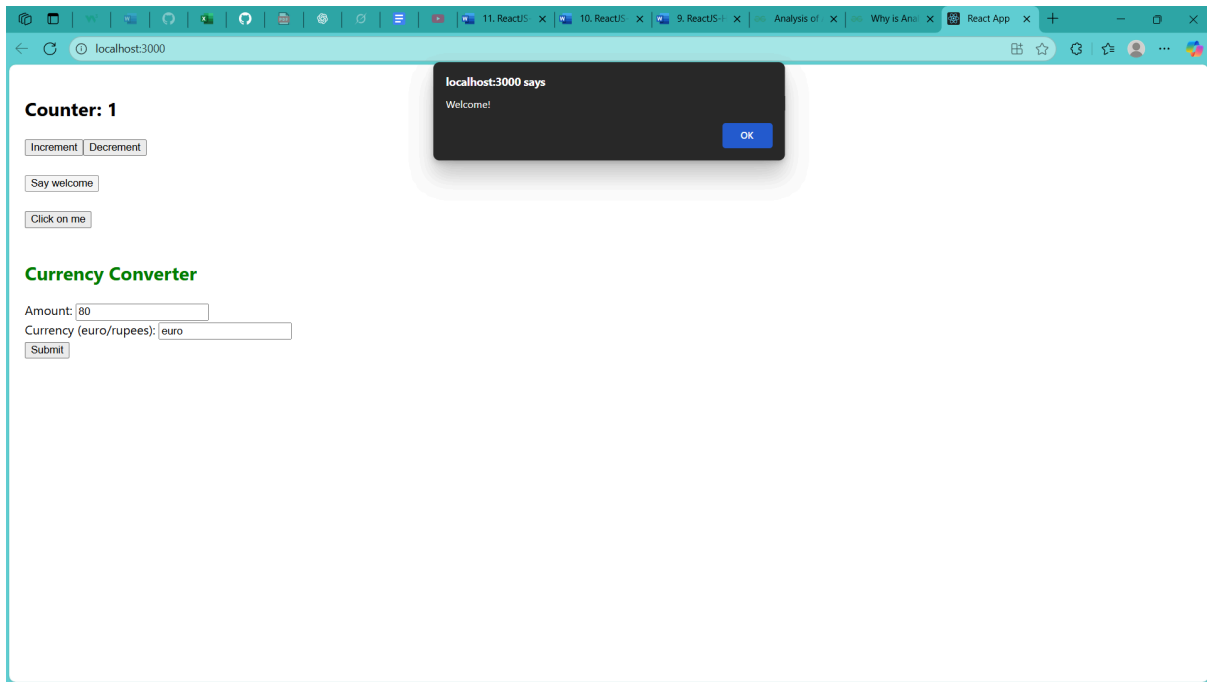
Output:

React 12:
App.js:

```
import React, { useState } from 'react';
import './App.css';
function UserGreeting() {
  return <h1>Welcome back</h1>;
}

function GuestGreeting() {
  return <h1>Please sign up.</h1>;
}
```

```jsx
function Greeting(props) {
  const isLoggedIn = props.isLoggedIn;
  if (isLoggedIn) {
    return <UserGreeting />;
  }
  return <GuestGreeting />;
}
function LoginButton(props) {
  return (
    <button onClick={props.onClick}>
      Login
    </button>
  );
}
function LogoutButton(props) {
  return (
    <button onClick={props.onClick}>
      Logout
    </button>
  );
}
function LoginControl() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);
  const handleLoginClick = () => {
    setIsLoggedIn(true);
  };
  const handleLogoutClick = () => {
    setIsLoggedIn(false);
  };
  let button;
  if (isLoggedIn) {
    button = <LogoutButton onClick={handleLogoutClick} />;
  } else {
    button = <LoginButton onClick={handleLoginClick} />;
  }
  return (
    <div>
      <Greeting isLoggedIn={isLoggedIn} />
      {button}
    </div>
  );
}
function App() {
```

```
  return (
    <div className="App">
      <header className="App-header">
        <LoginControl />
      </header>
    </div>
  );
}
export default App;
```

Output:
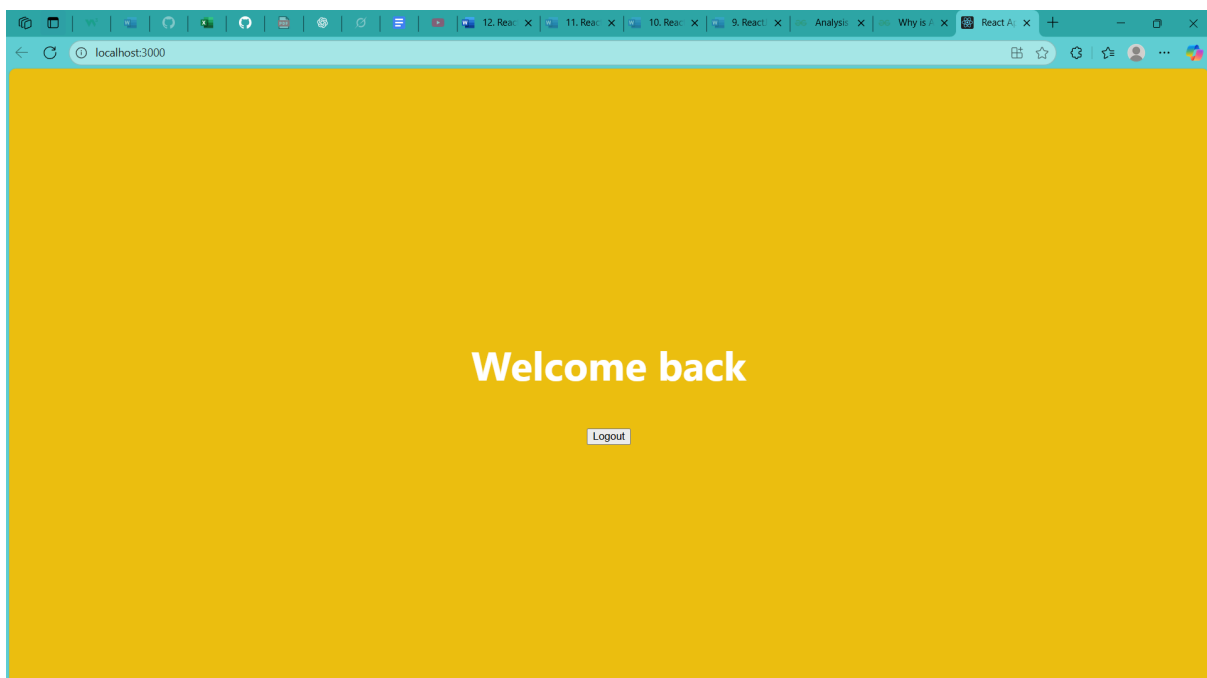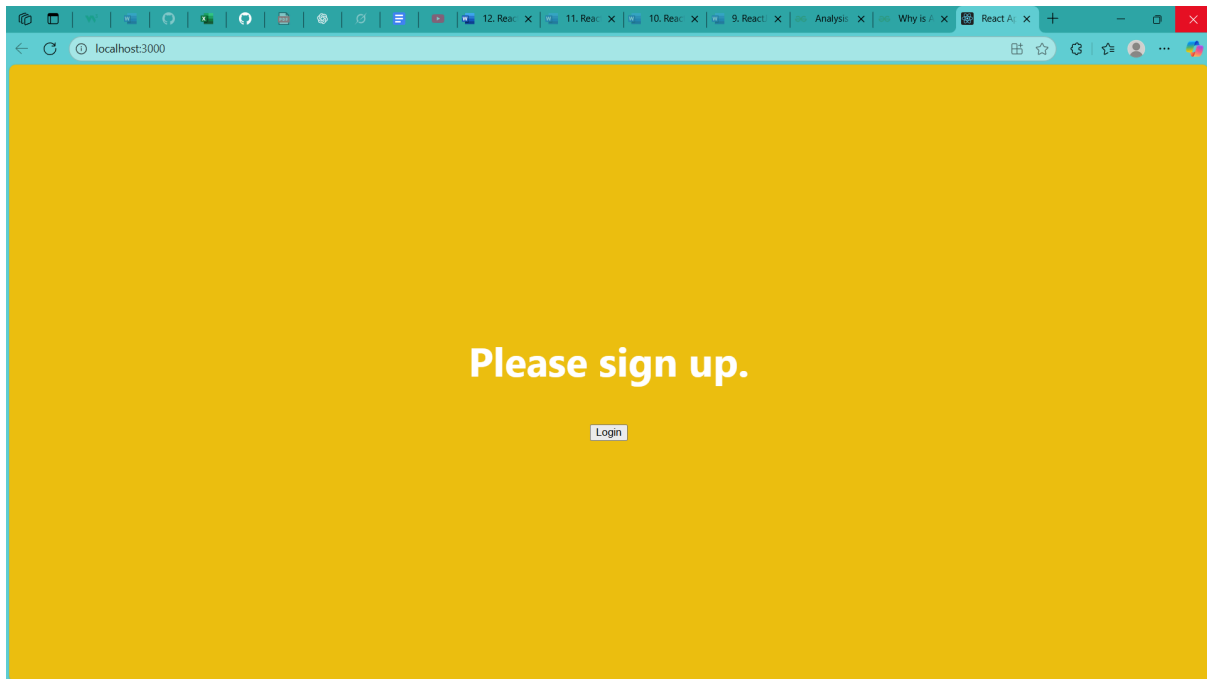
React 13:

Bookdetails.js:

```javascript
import React from 'react';
const BookDetails = ({ books }) => {
  return (
    <div className="component-box">
      <h2>Book Details</h2>
      {books.map((book) => (
        <div key={book.id} className="item">
          <h3>{book.bname}</h3>
          <h4>{book.price}</h4>
        </div>
      ))}
    </div>
  );
};


export default BookDetails;
```

bookData.js:

```javascript
export 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 },
];
```

BlogDetails.js:

```javascript
import React from 'react';
const BlogDetails = ({ blogs }) => {
  return (
    <div className="component-box">
      <h2>Blog Details</h2>
      {blogs.map((blog) => (
        <div key={blog.id} className="item">
          <h3>{blog.title}</h3>
          <p><strong>{blog.author}</strong></p>
          <p>{blog.content}</p>
        </div>
      ))}
    </div>
  );
};


export default BlogDetails;
```

blogData:

```
export const blogs = [
    {
        id: 201,
        title: 'React Learning',
        author: 'Stephen Biz',
        content: 'Welcome to learning React!'
    },
    {
        id: 202,
        title: 'Installation',
        author: 'Schwdzdenier',
        content: 'You can install React from npm.'
    },
];
```

CourseDetails.js:

```
import React from 'react';
const CourseDetails = ({ courses }) => {
  return (
    <div className="component-box">
      <h2>Course Details</h2>
      {courses.map((course) => (
        <div key={course.id} className="item">
          <h3>{course.name}</h3>
          <p>{course.date}</p>
        </div>
      ))}
    </div>
  );
};

export default CourseDetails;
```

courseData.js:

```
export const courses = [
    { id: 301, name: 'Angular', date: '4/5/2021' },
    { id: 302, name: 'React', date: '6/3/20201' },
];
```

App.js:

```jsx
import React, { useState } from 'react';
import BookDetails from './components/BookDetails';
import BlogDetails from './components/BlogDetails';
import CourseDetails from './components/CourseDetails';
import { books } from './data/bookData';
import { blogs } from './data/blogData';
import { courses } from './data/courseData';
import './App.css';

function App() {

  const [view, setView] = useState('all');
  const renderCourseDetails = () => {
    if (view === 'all' || view === 'courses') {
      return <CourseDetails courses={courses} />;
    } else {
      return <div className="placeholder">Courses are hidden</div>;
    }
  };

  return (
    <div className="App">
      <h1>Blogger App</h1>
      <p>Demonstrating Conditional Rendering</p>

      <div className="controls">
        <button onClick={() => setView('all')}>Show All</button>
        <button onClick={() => setView('books')}>Show Only
Books</button>
        <button onClick={() => setView('blogs')}>Show Only
Blogs</button>
        <button onClick={() => setView('courses')}>Show Only
Courses</button>
      </div>

      <div className="content-container">
        {view === 'all' || view === 'books' ? (
          <BookDetails books={books} />
        ) : (
          <div className="placeholder">Book Details are hidden</div>
        )}
```

```
        {(view === 'all' || view === 'blogs') && <BlogDetails
blogs={blogs} />}
        {view !== 'all' && view !== 'blogs' && (
          <div className="placeholder">Blog Details are hidden</div>
        )}


        {renderCourseDetails()}
      </div>
    </div>
  );
}


export default App;
```

Outputs:

Blogger App

Demonstrating Conditional Rendering

[Show All] [Show Only Books] [Show Only Blogs] [Show Only Courses]

Book Details are hidden

Blog Details

React Learning

Stephen Biz

Welcome to learning React!

Installation

Schwdzdenier

You can install React from npm.

Courses are hidden

Blogger App

Demonstrating Conditional Rendering

[Show All] [Show Only Books] [Show Only Blogs] [Show Only Courses]

Book Details are hidden

Blog Details are hidden

Course Details

Angular

4/5/2021

React

6/3/20201