9. ReactJS-HOL

```
C:\Users\msaad>npx create-react-app cricketapp

Creating a new React app in C:\Users\msaad\cricketapp.

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


added 1323 packages in 36s
```
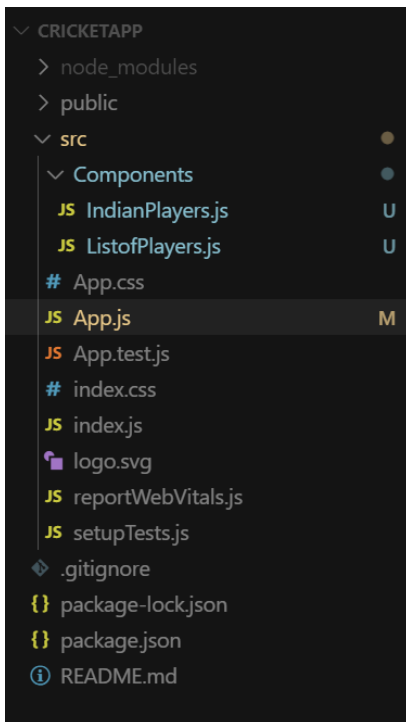
```
C:\Users\msaad>cd cricketapp

C:\Users\msaad\cricketapp>code .
```

Folder Structure:

```
∨ CRICKETAPP
  > node_modules
  > public
  ∨ src                              ●
    ∨ Components                     ●
      JS IndianPlayers.js            U
      JS ListofPlayers.js            U
      # App.css
      JS App.js                      M
      JS App.test.js
      # index.css
      JS index.js
      🔒 logo.svg
      JS reportWebVitals.js
      JS setupTests.js
    ◈ .gitignore
    {} package-lock.json
    {} package.json
    ⓘ README.md
```

ListofPlayers.js

```javascript
import React from 'react';

const ListofPlayers = () => {
  const players = [
    { name: "Virat Kohli", score: 100 },
    { name: "Rohit Sharma", score: 85 },
    { name: "Hardik Pandya", score: 40 },
    { name: "KL Rahul", score: 75 },
    { name: "Rishabh Pant", score: 60 },
    { name: "Shreyas Iyer", score: 90 },
    { name: "Shubman Gill", score: 50 },
    { name: "Suryakumar Yadav", score: 95 },
    { name: "Jasprit Bumrah", score: 35 },
    { name: "Mohammed Siraj", score: 70 },
    { name: "Ravindra Jadeja", score: 45 }
  ];

  const filteredPlayers = players.filter(player => player.score >= 70);
  return (
    <div>
      <h2>Players with Score ≥ 70</h2>
      <ul>
        {filteredPlayers.map((player, index) => (
          <li key={index}>{player.name} - {player.score}</li>
        ))}
      </ul>
    </div>
  );
};
export default ListofPlayers;
```

IndianPlayers.js

```jsx
import React from 'react';
const IndianPlayers = () => {
  const team = ["Virat", "Rohit", "Hardik", "Pant", "Bumrah", "Iyer"];


  const [odd1, even1, odd2, even2, odd3, even3] = team;
const T20players = ["Kohli", "Surya", "Gill"];
  const RanjiTrophyPlayers = ["Sarfaraz", "Shaw", "Ishan"];
const allPlayers = [...T20players, ...RanjiTrophyPlayers];
  return (
    <div>
      <h2>Odd Team Players</h2>
      <ul>
        <li>{odd1}</li>
        <li>{odd2}</li>
        <li>{odd3}</li>
      </ul>


      <h2>Even Team Players</h2>
      <ul>
        <li>{even1}</li>
        <li>{even2}</li>
        <li>{even3}</li>
      </ul>


      <h2>All Players (Merged)</h2>
      <ul>
        {allPlayers.map((player, index) => (
          <li key={index}>{player}</li>
        ))}
      </ul>
    </div>
```
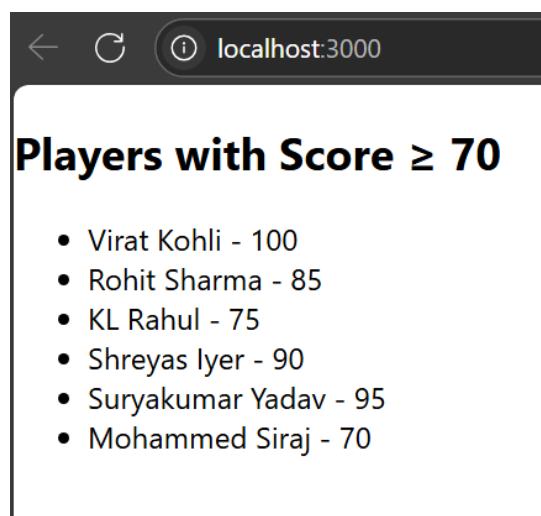
```
  );
};
export default IndianPlayers;
```

App.js

```
import React from 'react';
import ListofPlayers from './Components/ListofPlayers';
import IndianPlayers from './Components/IndianPlayers';

function App() {
  const flag = true; // Change to false to switch view

  return (
    <div className="App">
      {flag ? <ListofPlayers /> : <IndianPlayers />}
    </div>
  );
}
export default App;
```

Output:

10. ReactJS-HOL

```
C:\Users\msaad>npx create-react-app officespacerentalapp

Creating a new React app in C:\Users\msaad\officespacerentalapp.

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


added 1323 packages in 37s
```

```
C:\Users\msaad>cd officespacerentalapp

C:\Users\msaad\officespacerentalapp>code ..
```

App.js

```
import React from 'react';


function App() {
 // Heading element using JSX
 const heading = <h1>Office Space Rentals</h1>;


 // Office image URL (you can use any placeholder)
 const imageUrl = "https://via.placeholder.com/300x150?text=Office+Space";


 // Single office object
 const office1 = {
   name: "Indiranagar Workspace",
   rent: 55000,
   address: "1st Floor, ABC Building, Indiranagar, Bangalore"
 };


 // Array of office objects
 const offices = [
```

```
  {
    name: "Koramangala Hub",
    rent: 45000,
    address: "2nd Floor, XYZ Towers, Koramangala, Bangalore"
  },
  {
    name: "Whitefield Corporate Park",
    rent: 75000,
    address: "Tech Park, Whitefield, Bangalore"
  },
  {
    name: "MG Road View Office",
    rent: 60000,
    address: "3rd Floor, MG Complex, Bangalore"
  }
];


return (
  <div style={{ padding: "20px", fontFamily: "Arial" }}>
    {heading}

    {/* Image element using JSX attribute */}
    <img src={imageUrl} alt="Office Space" style={{ width: "300px", height: "150px", marginBottom: "20px" }} />

    {/* Display single office */}
    <h2>{office1.name}</h2>
    <p>
      <strong>Rent:</strong>{' '}
      <span style={{ color: office1.rent < 60000 ? "red" : "green" }}>
        ₹{office1.rent}
      </span>
    </p>
```

```jsx
      <p><strong>Address:</strong> {office1.address}</p>


      <hr />


      {/* Loop through office list */}
      <h2>Available Office Spaces:</h2>
      {offices.map((office, index) => (
        <div key={index} style={{ border: "1px solid #ccc", padding: "10px", margin: "10px 0", borderRadius: "8px" }}>
          <h3>{office.name}</h3>
          <p>
            <strong>Rent:</strong>{' '}
            <span style={{ color: office.rent < 60000 ? "red" : "green" }}>
              ₹{office.rent}
            </span>
          </p>
          <p><strong>Address:</strong> {office.address}</p>
        </div>
      ))}
    </div>
  );
}


export default App;
```

Output:

Office Space Rentals
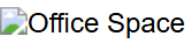
Office Space

Indiranagar Workspace

Rent: ₹55000

Address: 1st Floor, ABC Building, Indiranagar, Bangalore

Available Office Spaces:

Koramangala Hub

Rent: ₹45000

Address: 2nd Floor, XYZ Towers, Koramangala, Bangalore

Whitefield Corporate Park

Rent: ₹75000

Address: Tech Park, Whitefield, Bangalore

11. ReactJS-HOL

```
C:\Users\msaad>npx create-react-app eventexamplesapp

Creating a new React app in C:\Users\msaad\eventexamplesapp.

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


added 1323 packages in 59s
```
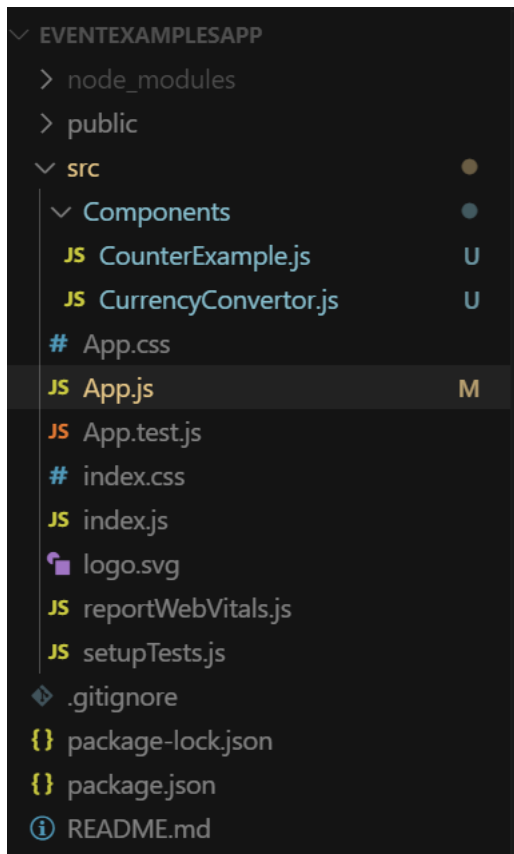
```
C:\Users\msaad>cd eventexamplesapp

C:\Users\msaad\eventexamplesapp>code .
```

Folder Structure:

CounterExample.js

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

class CounterExample extends Component {
  constructor(props) {
    super(props);
    this.state = {
      count: 0
    };
  }

  increment = () => {
    this.setState({ count: this.state.count + 1 });
    this.sayHello();
  };

  decrement = () => {
    this.setState({ count: this.state.count - 1 });
  };

  sayHello = () => {
    alert("Hello! You clicked Increment.");
  };

  sayWelcome = (msg) => {
    alert(`Welcome Message: ${msg}`);
  };

  handleSyntheticEvent = (e) => {
    e.preventDefault(); // Synthetic event usage
    alert("I was clicked (Synthetic Event)");
  };
```

```
  render() {
    return (
      <div>
        <h2>Counter: {this.state.count}</h2>
        <button onClick={this.increment}>Increment</button>
        <button onClick={this.decrement}>Decrement</button>
        <br /><br />
        <button onClick={() => this.sayWelcome("Welcome to the Event Example!")}>Say Welcome</button>
        <br /><br />
        <button onClick={this.handleSyntheticEvent}>Synthetic Click</button>
      </div>
    );
  }
}

export default CounterExample;
```

CurrencyConverter.js

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

class CurrencyConvertor extends Component {
  constructor(props) {
    super(props);
    this.state = {
      rupees: '',
      euros: ''
    };
  }

  handleChange = (e) => {
    this.setState({ rupees: e.target.value });
```

```jsx
  };

  handleSubmit = (e) => {
    e.preventDefault();
    const euroValue = (parseFloat(this.state.rupees) / 90).toFixed(2); // Approx 1 Euro = 90 INR
    this.setState({ euros: euroValue });
  };


  render() {
    return (
      <div>
        <h2>Currency Converter</h2>
        <form onSubmit={this.handleSubmit}>
          <label>Indian Rupees: </label>
          <input type="number" value={this.state.rupees} onChange={this.handleChange} />
          <button type="submit">Convert</button>
        </form>
        {this.state.euros && (
          <p>Equivalent in Euros: €{this.state.euros}</p>
        )}
      </div>
    );
  }
}


export default CurrencyConvertor;
```
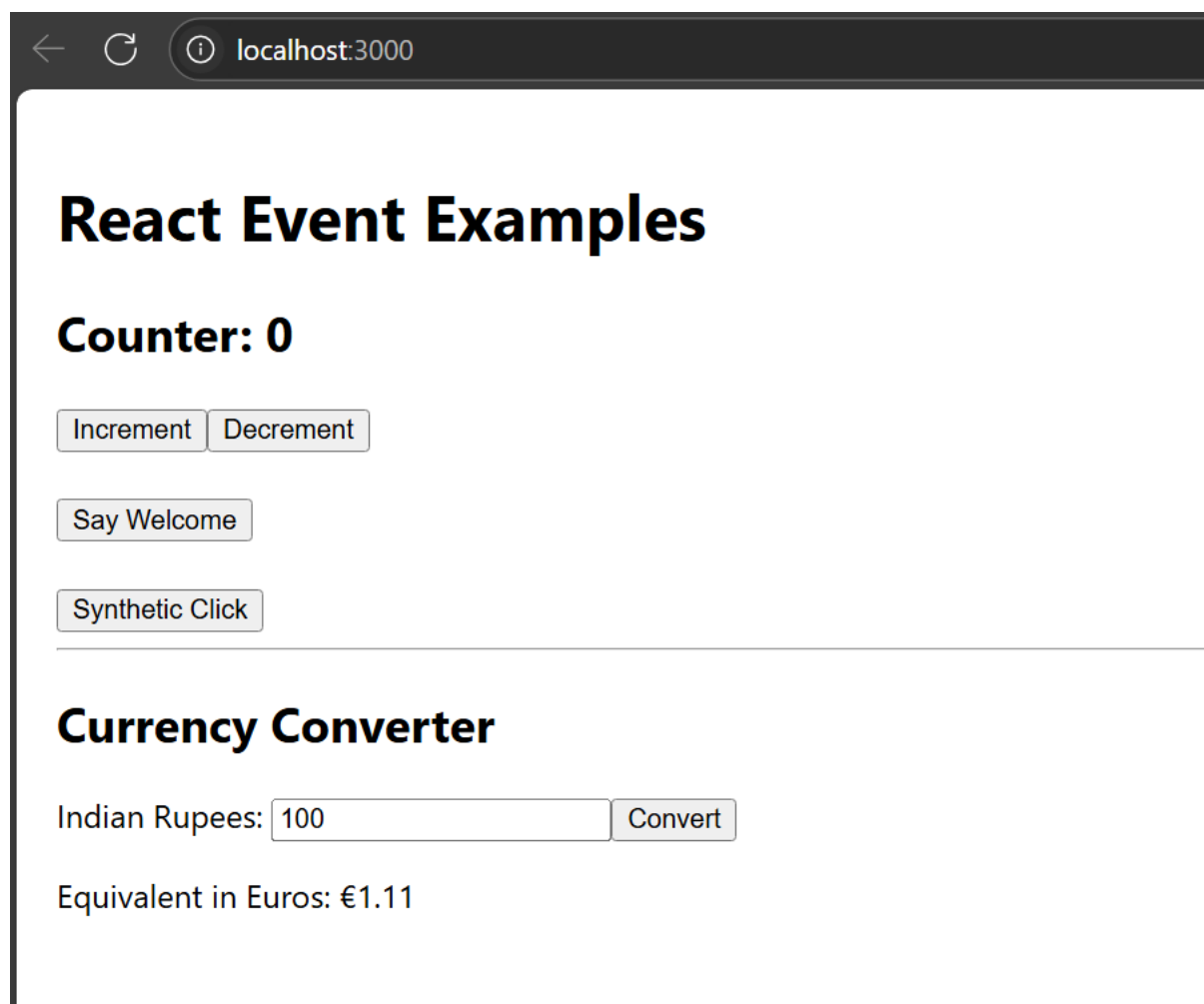
App.js

```jsx
import React from 'react';

import CounterExample from './Components/CounterExample';

import CurrencyConvertor from './Components/CurrencyConvertor';
```

```
function App() {

  return (

    <div className="App" style={{ padding: "20px" }}>

      <h1>React Event Examples</h1>

      <CounterExample />

      <hr />

      <CurrencyConvertor />

    </div>

  );

}


export default App;
```

Output:

12. ReactJS-HOL

```
C:\Users\msaad>npx create-react-app ticketbookingapp

Creating a new React app in C:\Users\msaad\ticketbookingapp.

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


added 1323 packages in 36s
```

```
C:\Users\msaad>cd ticketbookingapp

C:\Users\msaad\ticketbookingapp>code .
```

FolderStructure

Guestpage.js

```
function GuestPage() {

  return <h2>Welcome Guest! Browse flights below.</h2>;

}

export default GuestPage;
```

UserPage.js

```
function UserPage() {

  return <h2>Welcome User! You can now book your tickets.</h2>;

}

export default UserPage;
```

LoginButton.js

```
function LoginButton({ onClick }) {

  return <button onClick={onClick}>Login</button>;

}

export default LoginButton;
```

LogoutButton.js
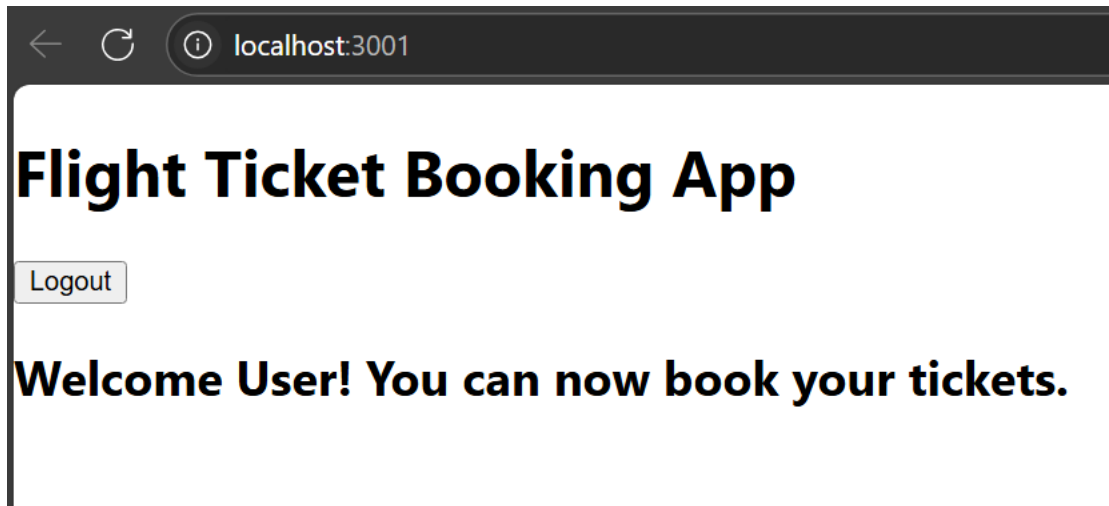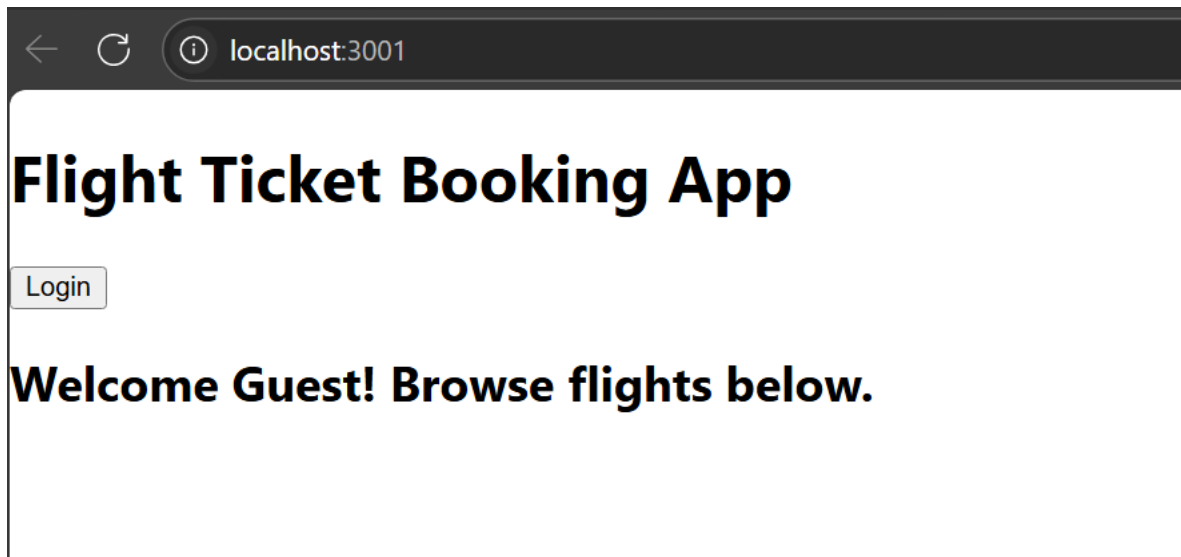
```
function LogoutButton({ onClick }) {

  return <button onClick={onClick}>Logout</button>;

}

export default LogoutButton;
```

App.js

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

import GuestPage from './GuestPage';

import UserPage from './UserPage';

import LoginButton from './LoginButton';

import LogoutButton from './LogoutButton';
```

```
function App() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);


  const handleLogin = () => setIsLoggedIn(true);
  const handleLogout = () => setIsLoggedIn(false);


  let content;
  let button;


  if (isLoggedIn) {
    content = <UserPage />;
    button = <LogoutButton onClick={handleLogout} />;
  } else {
    content = <GuestPage />;
    button = <LoginButton onClick={handleLogin} />;
  }


  return (
    <div>
      <h1>Flight Ticket Booking App</h1>
      {button}
      {content}
    </div>
  );
}
export default App;
```

Output:

localhost:3001

Flight Ticket Booking App

Login

Welcome Guest! Browse flights below.

localhost:3001

Flight Ticket Booking App

Logout

Welcome User! You can now book your tickets.

13. ReactJS-HOL

```
C:\Users\msaad>npx create-react-app bloggerapp

Creating a new React app in C:\Users\msaad\bloggerapp.

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


added 1323 packages in 43s
```
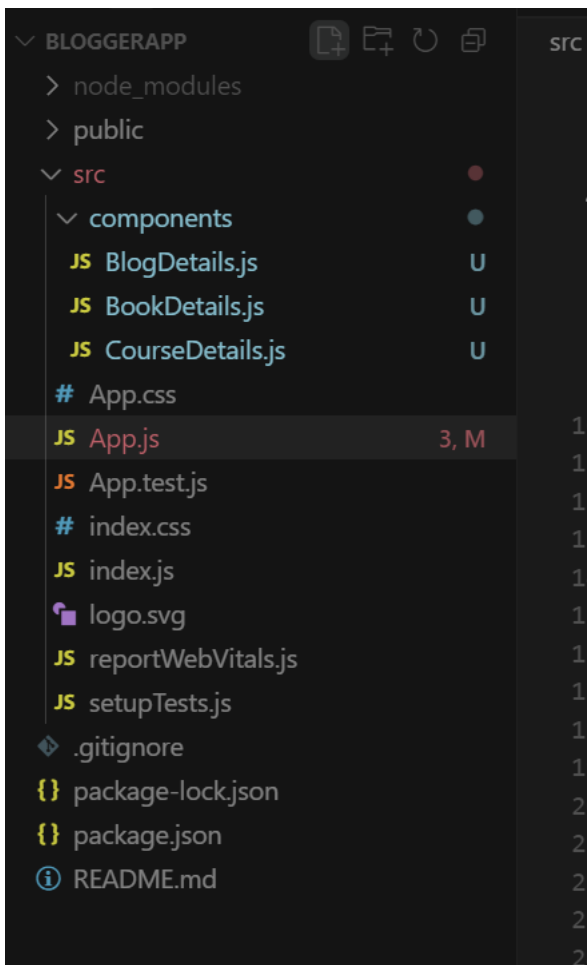
```
C:\Users\msaad>cd bloggerapp

C:\Users\msaad\bloggerapp>code .
```

Folder Structure:

BookDetails.js

```
function BookDetails() {

  return (

   <div>

    <h2>Book Details</h2>

    <p><strong>Master React</strong></p>

    <p>670</p>

    <p><strong>Deep Dive into Angular 11</strong></p>

    <p>800</p>

    <p><strong>Mongo Essentials</strong></p>

    <p>450</p>

   </div>

  );

 }

 export default BookDetails;
```

BlogDetails.js

```
function BlogDetails() {

  return (

   <div>

    <h2>Blog Details</h2>

    <p><strong>React Learning</strong></p>

    <p><em>Stephen Biz</em></p>

    <p>Welcome to learning React!</p>

    <p><strong>Installation</strong></p>

    <p><em>Schwezdenier</em></p>

    <p>You can install React from npm.</p>

   </div>

  );

 }

 export default BlogDetails;
```

CourseDetails.js

```jsx
function CourseDetails() {

    return (

     <div>

       <h2>Course Details</h2>

       <p><strong>Angular</strong></p>

       <p>4/5/2021</p>

       <p><strong>React</strong></p>

       <p>6/3/2020</p>

     </div>

    );

 }


  export default CourseDetails;
```

App.js

```jsx
import React from 'react';

import BookDetails from './components/BookDetails';

import BlogDetails from './components/BlogDetails';

import CourseDetails from './components/CourseDetails';


function App() {
 return (
  <div style={{ padding: '20px' }}>
   <h1 style={{ textAlign: 'center' }}>Blogger App</h1>


   <div style={{ display: 'flex', justifyContent: 'space-around', marginTop: '40px' }}>
    <div style={{ borderRight: '3px solid green', paddingRight: '20px' }}>
     <CourseDetails />
    </div>


    <div style={{ borderRight: '3px solid green', paddingRight: '20px', paddingLeft: '20px' }}>
```

```
      <BookDetails />

    </div>


    <div style={{ paddingLeft: '20px' }}>

      <BlogDetails />

    </div>

   </div>

  </div>

 );

}
export default App;
```

Output:

Blogger App

Course Details	Book Details	Blog Details
Angular	**Master React**	**React Learning**
4/5/2021	670	*Stephen Biz*
React	**Deep Dive into Angular 11**	Welcome to learning React!
6/3/2020	800	**Installation**
	Mongo Essentials	*Schwezdenier*
	450	You can install React from npm.

_____ *ThankYou* _____