9. Create a React Application named “cricketapp”

ListofPlayers.jsx

```
import React from 'react';

const ListofPlayers = ({ players }) => {
 return (
  <div>
   {players.map((item, index) => (
    <li key={index}>
     Mr. {item.name} <span>{item.score}</span>
    </li>
   ))}
  </div>
 );
};

export default ListofPlayers;
```

Scorebelow70.jsx

```
import React from 'react';

const Scorebelow70 = ({ players }) => {
 const players70 = [];
 players.map((item) => {
  if (item.score <= 70) {
   players70.push(item);
  }
 });

 return (
  <div>
   {players70.map((item, index) => (
    <li key={index}>Mr. {item.name} - {item.score}</li>
   ))}
  </div>
 );
};

export default Scorebelow70;
```

OddPlayers.jsx

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

```
export function OddPlayers([first,, third,, fifth]) {
 return (
  <div>
   <li>First : {first}</li>
   <li>Third : {third}</li>
   <li>Fifth : {fifth}</li>
  </div>
 );
}
```

EvenPlayers.jsx

```
import React from 'react';

export function EvenPlayers([, second,, fourth,, sixth]) {
 return (
  <div>
   <li>Second : {second}</li>
   <li>Fourth : {fourth}</li>
   <li>Sixth : {sixth}</li>
  </div>
 );
}
```

ListofIndianPlayers.jsx

```
import React from 'react';

const ListofIndianPlayers = ({ IndianPlayers }) => {
 return (
  <div>
   {IndianPlayers.map((player, index) => (
    <li key={index}>Mr. {player}</li>
   ))}
  </div>
 );
};

export default ListofIndianPlayers;
```

App.js

```
import React from 'react';
import ListofPlayers from './components/ListofPlayers';
import Scorebelow70 from './components/Scorebelow70';
```

```
import { OddPlayers } from './components/OddPlayers';
import { EvenPlayers } from './components/EvenPlayers';
import ListofIndianPlayers from './components/ListofIndianPlayers';

const App = () => {
 const flag = true;

 const players = [
  { name: 'Jack', score: 50 },
  { name: 'Michael', score: 70 },
  { name: 'John', score: 40 },
  { name: 'Ann', score: 61 },
  { name: 'Elisabeth', 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 },
 ];

 const IndianTeam = ['Sachin1', 'Dhoni2', 'Virat3', 'Rohit4', 'Yuvraj5', 'Raina6'];

 const T20Players = ['First Player', 'Second Player', 'Third Player'];
 const RanjiTrophyPlayers = ['Fourth Player', 'Fifth Player', 'Sixth Player'];
 const IndianPlayers = [...T20Players, ...RanjiTrophyPlayers];

 if (flag === true) {
  return (
   <div>
    <h1>List of Players</h1>
    <ListofPlayers players={players} />
    <hr />
    <h1>List of Players having Scores Less than 70</h1>
    <Scorebelow70 players={players} />
   </div>
  );
 } else {
  return (
   <div>
    <div>
     <h1>Indian Team</h1>
     <h1>Odd Players</h1>
     {OddPlayers(IndianTeam)}
```

```
        <hr />
        <h1>Even Players</h1>
        {EvenPlayers(IndianTeam)}
      </div>
      <hr />
      <div>
        <h1>List of Indian Players Merged:</h1>
        <ListofIndianPlayers IndianPlayers={IndianPlayers} />
      </div>
    </div>
  );
 }
};

export default App;
```

OUTPUT:

Indian Team

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

10. Create a React Application named “officespacerentalapp” which uses React JSX to create elements, attributes and renders DOM to display the page.

App.js

```
import React from "react";
import "./App.css";
import image from "./Images/image.png";

const App = () => {
 const heading = <h1>Office Space Rental App</h1>;
 const officeImage = "https://via.placeholder.com/400x200?text=Office+Space";

 const office = {
  name: "Indiranagar Tech Park",
  rent: 75000,
  address: "2nd Main, Indiranagar, Bangalore"
 };

 const officeList = [
  {
   name: "Indiranagar Tech Park",
   rent: 75000,
   address: "2nd Main, Indiranagar, Bangalore"
  },
  {
   name: "HSR Layout Tower",
   rent: 55000,
   address: "27th Main, HSR Layout, Bangalore"
  },
  {
   name: "Koramangala Heights",
   rent: 85000,
   address: "5th Block, Koramangala, Bangalore"
  }
 ];

 const renderOffices = officeList.map((office, index) => (
  <div key={index} className="office-card">
   <h3>{office.name}</h3>
   <p style={{ color: office.rent < 60000 ? "red" : "green" }}>
    Rent: ₹{office.rent}
   </p>
```

```
    <p>Address: {office.address}</p>
   </div>
  ));

  return (
   <div className="App">
    {heading}
    <img src={image} alt="Office Space" />

    <div className="office-details">
     <h2>{office.name}</h2>
     <p style={{ color: office.rent < 60000 ? "red" : "green" }}>
      Rent: ₹{office.rent}
     </p>
     <p>Address: {office.address}</p>
    </div>

    <h2>Available Office Listings</h2>
    {renderOffices}
   </div>
  );
};

export default App;
```

App.css:

```
.App {
  font-family: Arial, sans-serif;
  padding: 20px;
}

.office-card {
  border: 1px solid #ddd;
  padding: 10px;
  margin: 10px 0;
}
```

OUTPUT:

Office Space Rental App

Indiranagar Tech Park

Rent: ₹75000

Address: 2nd Main, Indiranagar, Bangalore

Available Office Listings

Indiranagar Tech Park

Rent: ₹75000

Address: 2nd Main, Indiranagar, Bangalore

HSR Layout Tower

Rent: ₹55000

11. Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.

App.js

```
import React, { Component } from 'react';
import CurrencyConvertor from './CurrencyConvertor';
import './App.css';

class App 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 = () => {
    console.log('Hello! This is a static message.');
  };

  sayWelcome = (message) => {
    alert(message);
  };

  handleClick = (e) => {
    e.preventDefault(); // Synthetic event
    alert('I was clicked');
  };

  render() {
    return (
      <div className="App">
        <h1>Event Handling Example</h1>

        <h2>Counter: {this.state.count}</h2>
        <button onClick={this.increment}>Increment</button>
        <button onClick={this.decrement}>Decrement</button>

        <hr />
        <button onClick={() => this.sayWelcome('Welcome!')}>Say Welcome</button>

        <hr />
        <button onClick={this.handleClick}>OnPress</button>

        <hr />
        <CurrencyConvertor />
      </div>
    );
  }
}

export default App;
```

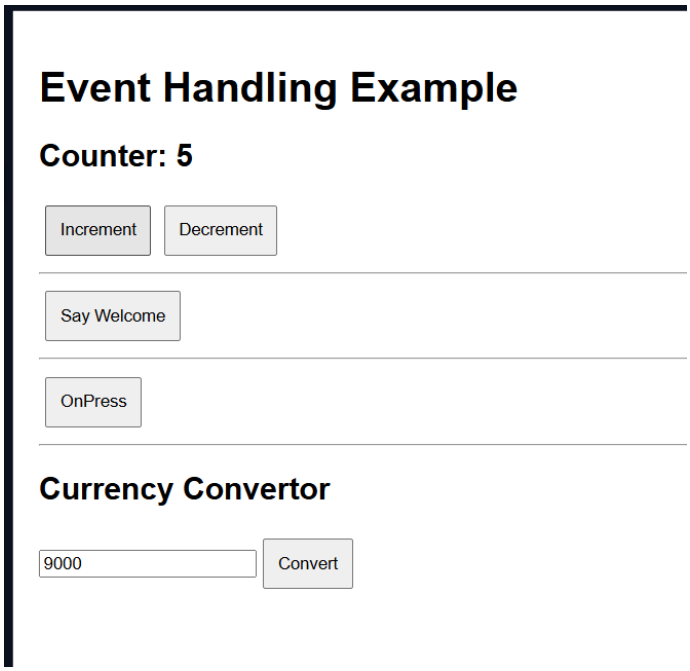
CurrencyConvertor.js

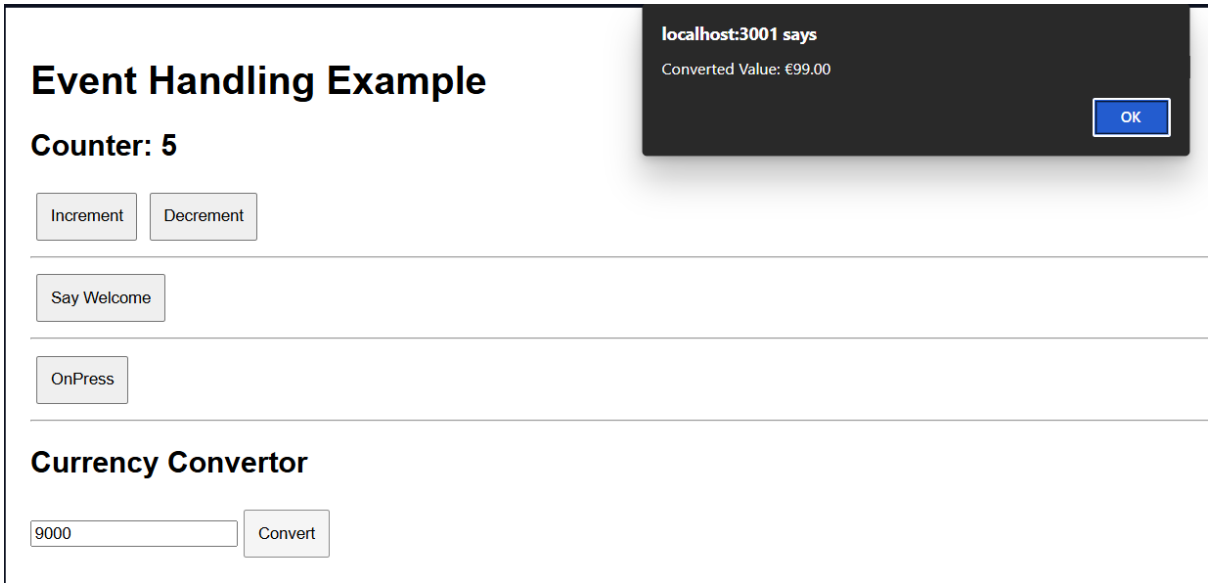
```
import React, { Component } from 'react';

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

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

 handleSubmit = (e) => {
  e.preventDefault();
  const conversionRate = 0.011; // Example: ₹1 = €0.011
  const euro = this.state.rupees * conversionRate;
  alert(`Converted Value: €${euro.toFixed(2)}`);
 };

 render() {
  return (
   <div>
    <h2>Currency Convertor</h2>
    <form onSubmit={this.handleSubmit}>
     <input
      type="number"
      placeholder="Enter amount in Rupees"
      value={this.state.rupees}
      onChange={this.handleChange}
     />
     <button type="submit">Convert</button>
    </form>
   </div>
  );
 }
}

export default CurrencyConvertor;
```

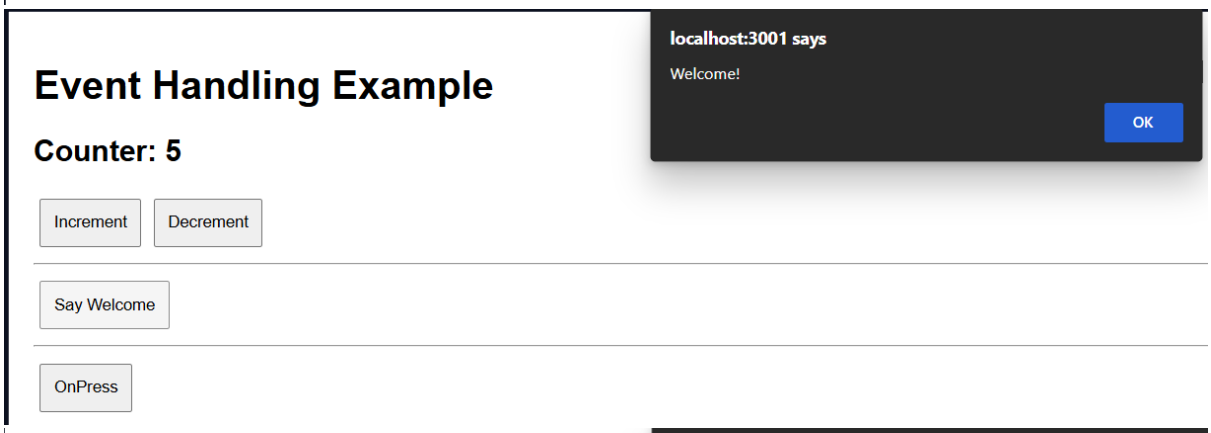
App.css

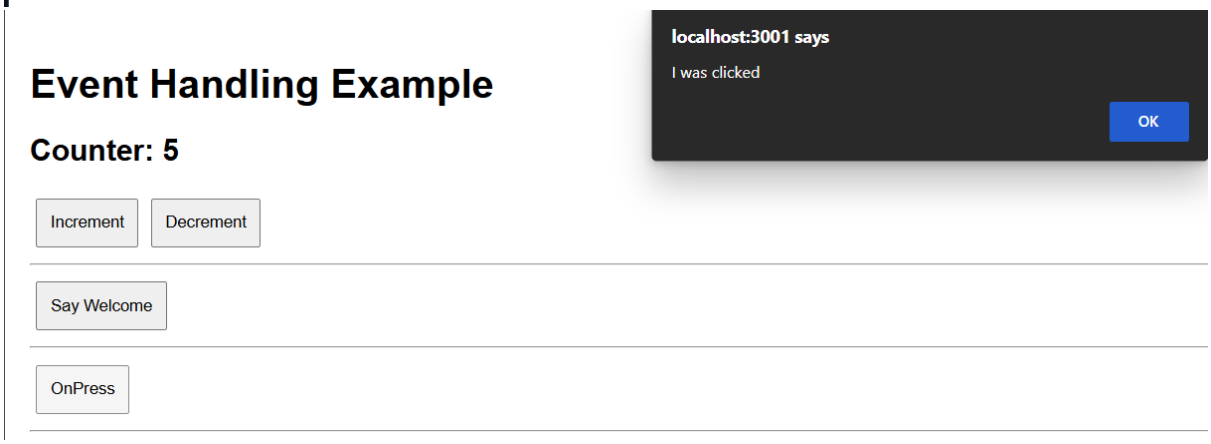
```
.App {
  padding: 20px;
  font-family: Arial;
}

button {
  margin: 5px;
  padding: 10px;
  cursor: pointer;
}
```

OUTPUT:




localhost:3001 says
Converted Value: €99.00
OK
Event Handling Example
Counter: 5
Increment
Decrement
Say Welcome
OnPress
Currency Convertor
9000
Convert


localhost:3001 says
Welcome!
OK
Event Handling Example
Counter: 5
Increment
Decrement
Say Welcome
OnPress


localhost:3001 says
I was clicked
OK
Event Handling Example
Counter: 5
Increment
Decrement
Say Welcome
OnPress

12. Create a React Application named “ticketbookingapp” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.

App.js

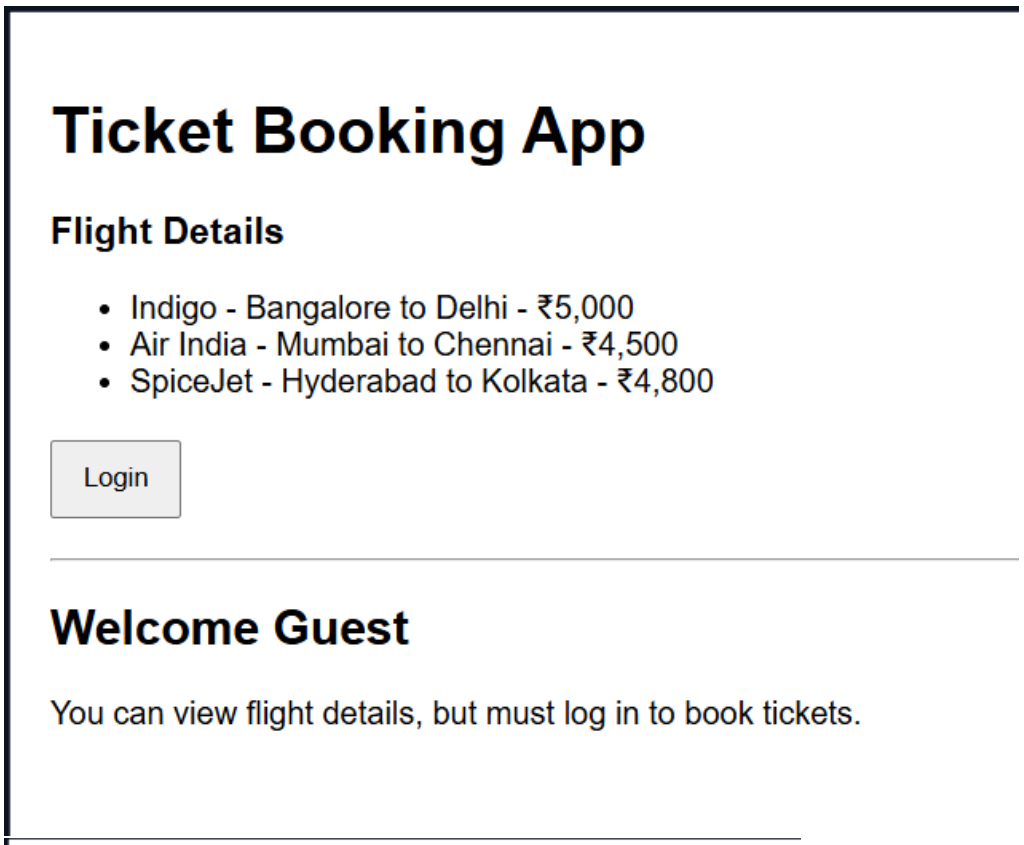
```
import React, { useState } from 'react';
import './App.css';

const GuestPage = () => (
 <div>
  <h2>Welcome Guest</h2>
  <p>You can view flight details, but must log in to book tickets.</p>
 </div>
);

const UserPage = () => (
 <div>
  <h2>Welcome User</h2>
  <p>You can now book flight tickets!</p>
 </div>
);

const FlightDetails = () => (
 <div>
  <h3>Flight Details</h3>
  <ul>
   <li>Indigo - Bangalore to Delhi - ₹5,000</li>
   <li>Air India - Mumbai to Chennai - ₹4,500</li>
   <li>SpiceJet - Hyderabad to Kolkata - ₹4,800</li>
  </ul>
 </div>
);

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

 let content;
 if (isLoggedIn) {
  content = <UserPage />;
 } else {
  content = <GuestPage />;
 }
```

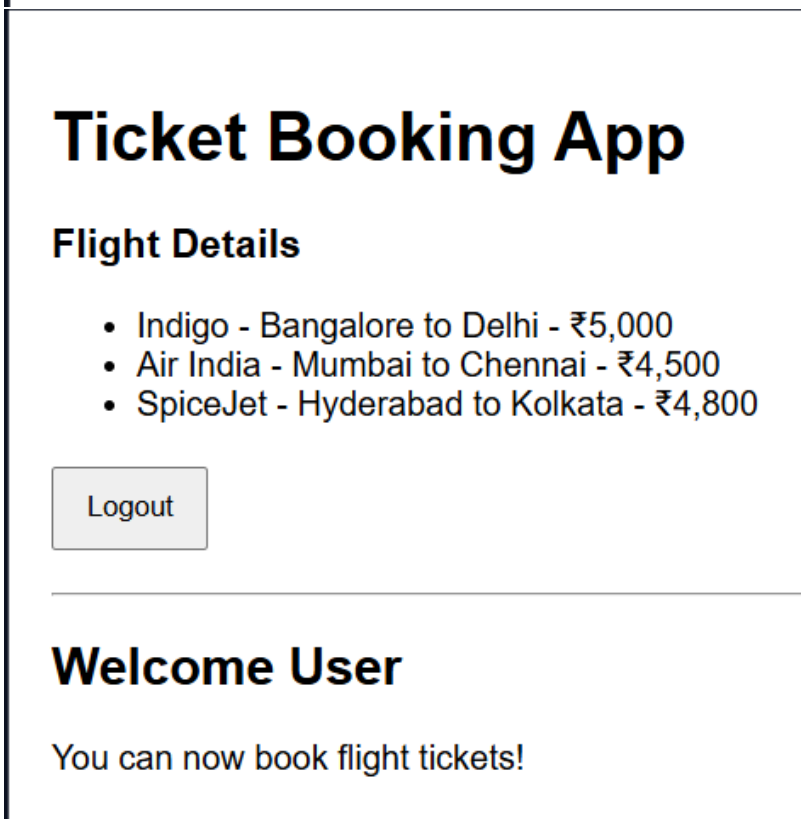
```
  return (
    <div className="App">
      <h1>Ticket Booking App</h1>
      <FlightDetails />
      <div className="button-group">
        {!isLoggedIn ? (
          <button onClick={() => setIsLoggedIn(true)}>Login</button>
        ) : (
          <button onClick={() => setIsLoggedIn(false)}>Logout</button>
        )}
      </div>
      <hr />
      {content}
    </div>
  );
};

export default App;
```

App.css

```
.App {
  padding: 20px;
  font-family: Arial, sans-serif;
}

.button-group {
  margin: 20px 0;
}

button {
  padding: 10px 15px;
  margin-right: 10px;
  cursor: pointer;
}
```

OUTPUT:


Ticket Booking App
Flight Details
Indigo - Bangalore to Delhi - ₹5,000
Air India - Mumbai to Chennai - ₹4,500
SpiceJet - Hyderabad to Kolkata - ₹4,800
Login
Welcome Guest
You can view flight details, but must log in to book tickets.


Ticket Booking App
Flight Details
Indigo - Bangalore to Delhi - ₹5,000
Air India - Mumbai to Chennai - ₹4,500
SpiceJet - Hyderabad to Kolkata - ₹4,800
Logout
Welcome User
You can now book flight tickets!

13. Create a React App named “bloggerapp” in with 3 components.

1. **Book Details**
2. **Blog Details**
3. **Course Details**

App.js:

```
import React, { useState } from "react";
import { books } from "./books";
import "./App.css";

const BookDetails = ({ books }) => {
  return (
    <ul>
      {books.map((book) => (
        <div key={book.id}>
          <h3>{book.bname}</h3>
          <h4>{book.price}</h4>
        </div>
      ))}
    </ul>
  );
};

const BlogDetails = () => {
  return (
    <div>
      <h3>Blog 1: Understanding React</h3>
      <h4>Trending</h4>
      <h3>Blog 2: Modern JavaScript with ES6+</h3>
      <h4>Top 1</h4>
      <h3>Blog 3: Functional vs Class Components</h3>
      <h4>Blogs Top List</h4>
    </div>
  );
};

const CourseDetails = () => {
  return (
    <ul>
      <h3>Advanced Angular</h3>
      <h5>4/5/2025</h5>
      <h3>MongoDB Basics</h3>
```

```
    <h5>6/8/2025</h5>
   </ul>
  );
};

function App() {
  const [showBlog, setShowBlog] = useState(true);
  const [showCourses, setShowCourses] = useState(true);

  const toggleBlog = () => setShowBlog(!showBlog);
  const toggleCourses = () => setShowCourses(!showCourses);

  const content = showBlog ? <BlogDetails /> : <p>Blog content hidden</p>;
  const coursedet = showCourses ? (
   <CourseDetails />
  ) : (
   <p>Course content hidden</p>
  );
  const bookdet =
   books.length > 0 ? (
    <BookDetails books={books} />
   ) : (
    <p>No books available</p>
   );

  return (
   <div className="container">
    <div className="column">
     <h2>Course Details</h2>
     {coursedet}
    </div>

    <div className="column">
     <h2>Book Details</h2>
     {bookdet}
    </div>

    <div className="column">
     <h2>Blog Details</h2>
     {content}
    </div>
   </div>
  );
}
export default App;
```

books,js:

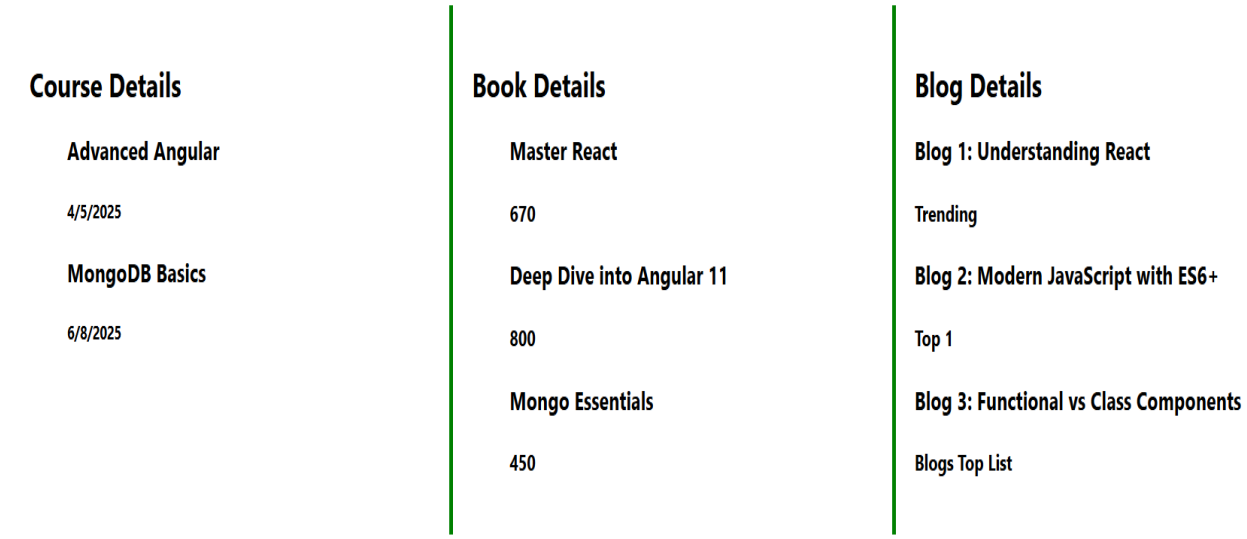
```
export const books = [
```

```
  { id: 101, bname: "Master React", price: 670 },
  { id: 102, bname: "Deep Dive into Angular 11", price: 800 },
  { id: 103, bname: "Mongo Essentials", price: 450 }
];
```

App.css:

```
.container {
  display: flex;
  justify-content: space-around;
  align-items: flex-start;
  margin: 40px;
}

.column {
  flex: 1;
  padding: 20px;
  border-left: 4px solid green;
}

.column:first-child {
  border-left: none; /* Remove left border for first column */
}

h2 {
  font-size: 1.5rem;
  margin-bottom: 10px;
}

ul,
p {
  margin: 5px 0;
}
```

OUTPUT:



14. You are assigned the task of converting the application form props only to React Context API.

ThemeContext.js

```
import { createContext } from 'react';

// Default theme is 'light'
const ThemeContext = createContext('light');

export default ThemeContext;
```

App.js

```
import './App.css';
import { EmployeesData } from './Employee';
import EmployeesList from './EmployeesList';
import { useState } from 'react';
import ThemeContext from './ThemeContext';

function App() {
 const Employees = EmployeesData;
 const [theme, setTheme] = useState('light');

 return (
  <ThemeContext.Provider value={theme}>
   <div>
    <label>SELECT A THEME </label>
    <select onChange={(e) => setTheme(e.target.value)}>
     <option value='light'>Light</option>
     <option value='dark'>Dark</option>
```

```
      </select>
    </div>

    {/* Removed theme prop */}
    <EmployeesList employees={Employees} />
   </ThemeContext.Provider>
  );
}

export default App;
```

EmployeeList.js

```
import EmployeeCard from "./EmployeeCard";
import Styles from "./EmployeeCard.module.css";

function EmployeesList({ employees }) {
  return (
    <div>
      <h1>Employees List</h1>
      <div className={Styles.cardContainer}>
        {employees.map((employee) => (
          <EmployeeCard employee={employee} key={employee.id} />
        ))}
      </div>
    </div>
  );
}

export default EmployeesList;
```

EmployeeCard.js

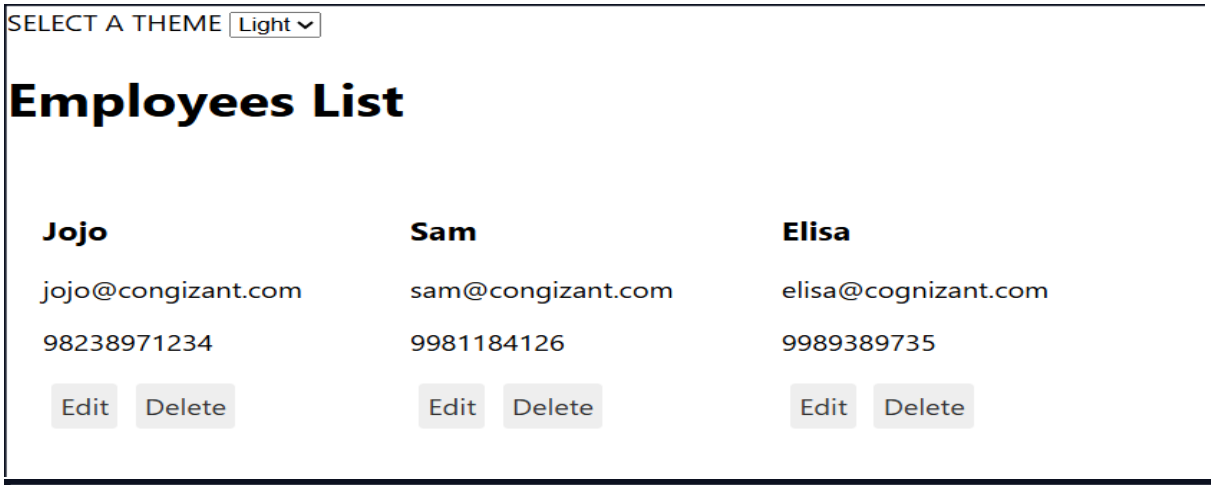
```
import { useContext } from 'react';
import Styles from './EmployeeCard.module.css';
import ThemeContext from './ThemeContext';

function EmployeeCard({ employee }) {
  const theme = useContext(ThemeContext); // Get theme from context

  return (
    <div className={Styles.Card}>
      <h3>{employee.name}</h3>
      <p>{employee.email}</p>
      <p>{employee.phone}</p>
      <p>
```

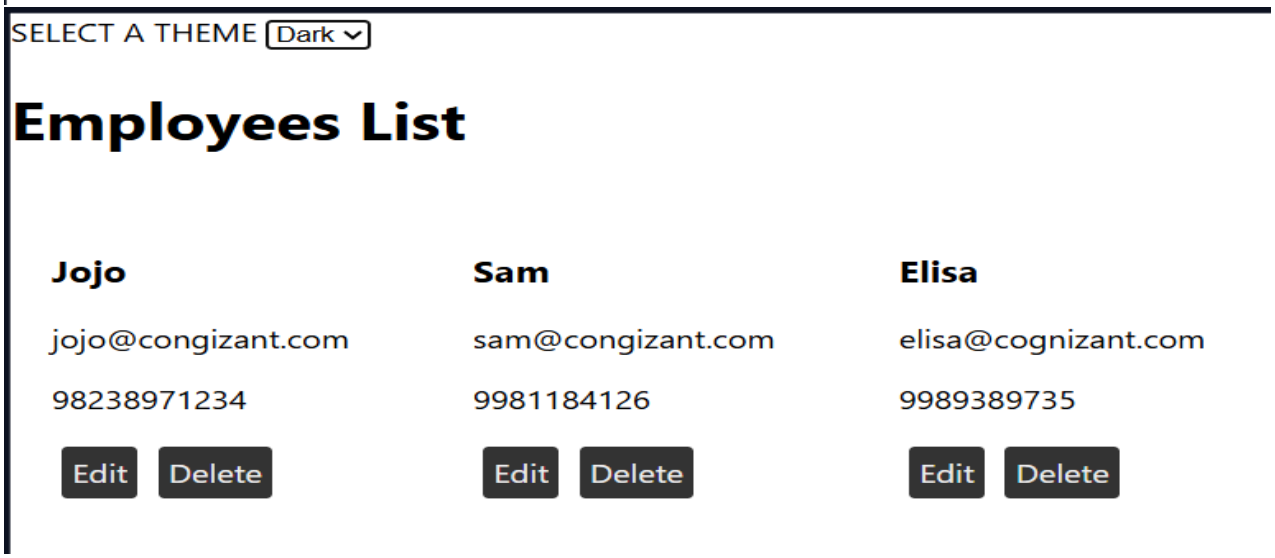
```
      <a href="#" className={theme}>Edit</a>
      <a href="#" className={theme}>Delete</a>
    </p>
   </div>
  );
}

export default EmployeeCard;
```

Employee.Card.module.css

```
.light {
  background-color: white;
  color: black;
}

.dark {
  background-color: black;
  color: white;
}

.Card {
  padding: 10px;
  margin: 10px;
  border-radius: 6px;
}
.cardContainer {
  display: flex;
  flex-wrap: wrap; /* Wrap to next row if too many cards */
  gap: 20px; /* Space between cards */
  margin-top: 20px;
}
```

OUTPUT:





15. Create a React App named “ticketraisingapp” which will help to raise a complaint and get it resolved.

ComplainRegister.js

```
import React, { Component } from "react";
import "./ComplaintRegister.css";

class ComplaintRegister extends Component {
 constructor(props) {
  super(props);
  this.state = {
   ename: "",
   complaint: "",
   NumberHolder: Math.floor(Math.random() * 100) + 1
  };
 }

 handleChange = (event) => {
  this.setState({ [event.target.name]: event.target.value });
```

```
  };

  handleSubmit = (event) => {
    const msg =
      "Thanks " +
      this.state.ename +
      "\nYour Complaint was Submitted.\nTransaction ID is: " +
      this.state.NumberHolder;
    alert(msg);
    event.preventDefault();
  };

  render() {
    return (
      <div className="container">
        <h2>Register your complaints here!!!</h2>
        <form onSubmit={this.handleSubmit}>
          <div>
            <label>Name:</label>
            <input
              type="text"
              name="ename"
              value={this.state.ename}
              onChange={this.handleChange}
              required
            />
          </div>

          <div>
            <label>Complaint:</label>
            <textarea
              name="complaint"
              value={this.state.complaint}
              onChange={this.handleChange}
              required
            />
          </div>

          <button type="submit">Submit</button>
        </form>
      </div>
    );
  }
}
```

```
export default ComplaintRegister;
```

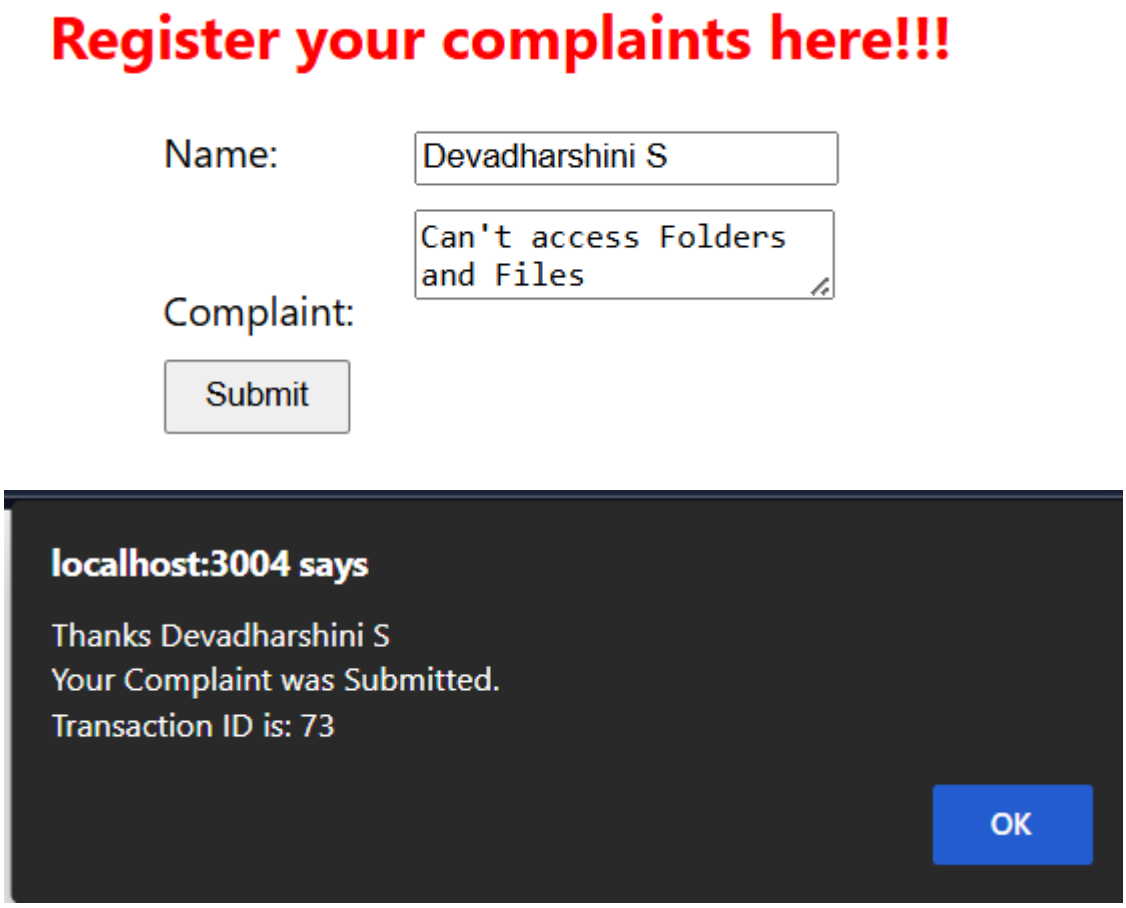
ComplaintRegister.css

```
.container {
  text-align: center;
  margin-top: 50px;
}

h2 {
  color: red;
}

form {
  display: inline-block;
  text-align: left;
}

label {
  display: inline-block;
  width: 100px;
}

input,
textarea {
  margin-bottom: 10px;
}

button {
  padding: 5px 15px;
  margin-top: 10px;
}
```

App.js

```
import './App.css';
import ComplaintRegister from './ComplaintRegister';

function App() {
  return (
    <div>
      <ComplaintRegister />
    </div>
  );
}
export default App;
```

OUTPUT:



16. Create a React App named “mailregisterapp” which will have a component named “register.js”.

register.js

```
import React, { Component } from "react";
import "./register.css";

class Register extends Component {
 constructor(props) {
  super(props);
  this.state = {
   fullName: "",
   email: "",
   password: "",
   errors: {}
  };
 }

 handleChange = (event) => {
```

```
  this.setState({ [event.target.name]: event.target.value });
};

validateForm = () => {
  let errors = {};
  let isValid = true;

  // Name validation
  if (this.state.fullName.trim().length < 5) {
    isValid = false;
    errors.fullName = "Full Name must be 5 characters long!";
  }

  // Email validation
  if (!this.state.email.includes("@") || !this.state.email.includes(".")) {
    isValid = false;
    errors.email = "Email must contain @ and .";
  }

  // Password validation
  if (this.state.password.length < 8) {
    isValid = false;
    errors.password = "Password must be at least 8 characters long!";
  }

  this.setState({ errors });
  return isValid;
};

handleSubmit = (event) => {
  event.preventDefault();
  if (this.validateForm()) {
    alert("Valid Form");
  } else {
    const { errors } = this.state;
    if (errors.fullName) alert(errors.fullName);
    if (errors.email) alert(errors.email);
    if (errors.password) alert(errors.password);
  }
};

render() {
  return (
    <div className="container">
```

```
      <h2>Register Here!!!</h2>
      <form onSubmit={this.handleSubmit}>
       <div>
        <label>Name:</label>
        <input
         type="text"
         name="fullName"
         value={this.state.fullName}
         onChange={this.handleChange}
        />
       </div>

       <div>
        <label>Email:</label>
        <input
         type="text"
         name="email"
         value={this.state.email}
         onChange={this.handleChange}
        />
       </div>

       <div>
        <label>Password:</label>
        <input
         type="password"
         name="password"
         value={this.state.password}
         onChange={this.handleChange}
        />
       </div>

       <button type="submit">Submit</button>
      </form>
     </div>
   );
  }
}

export default Register;
```

register.css

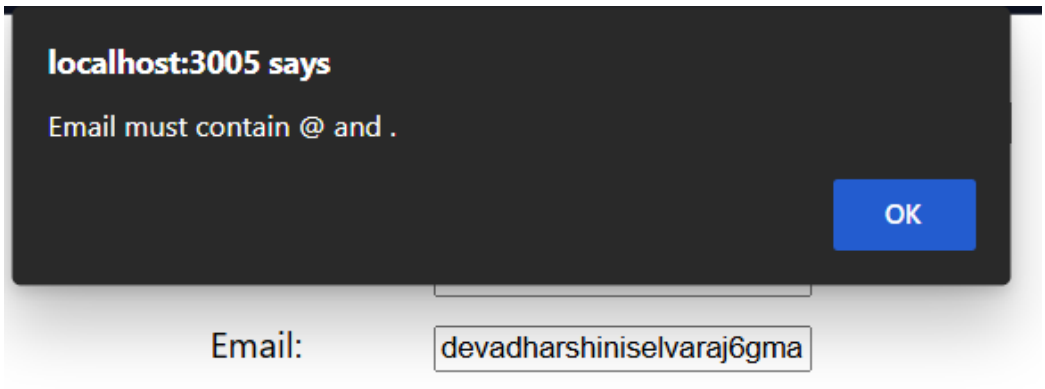
```
.container {
  text-align: center;
```

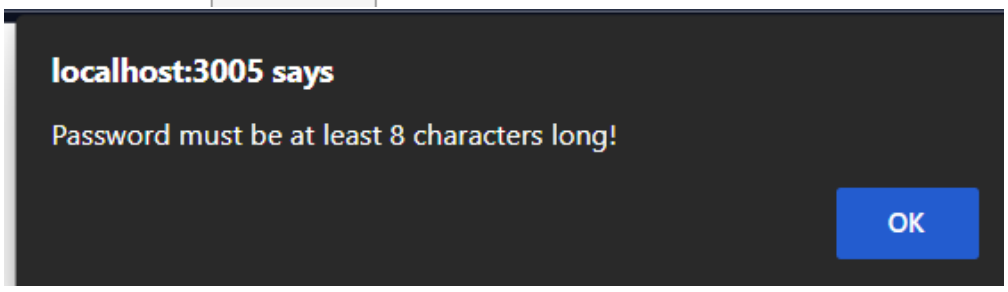
```
  margin-top: 50px;
}

h2 {
  color: red;
}

form {
  display: inline-block;
  text-align: left;
}

label {
  display: inline-block;
  width: 100px;
}

input {
  margin-bottom: 10px;
}

button {
  padding: 5px 15px;
  margin-top: 10px;
}
```

App.js

```
import "./App.css";
import Register from "./register";

function App() {
  return (
    <div>
      <Register />
    </div>
  );
}

export default App;
```

OUTPUT:





17. Create a React Application “fetchuserapp” which will retrieve the user details from https://api.randomuser.me/ and display the title, firstname and image of a user.

GetUser.js

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

class Getuser extends Component {
```

```
 constructor(props) {
  super(props);
  this.state = {
   user: null,
   loading: true
  };
 }
 async componentDidMount() {
  try {
   const response = await fetch("https://api.randomuser.me/");
   const data = await response.json();
   this.setState({ user: data.results[0], loading: false });
  } catch (error) {
   console.error("Error fetching user:", error);
   this.setState({ loading: false });
  }
 }
 render() {
  const { user, loading } = this.state;

  if (loading) {
   return <h2>Loading user...</h2>;
  }

  if (!user) {
   return <h2>Failed to load user.</h2>;
  }

  return (
   <div style={{ textAlign: "center", marginTop: "50px" }}>
    <h2>
     {user.name.title} {user.name.first}
    </h2>
    <img
     src={user.picture.large}
     alt="User"
     style={{ borderRadius: "50%", border: "2px solid #333" }}
    />
   </div>
  );
 }
}

export default Getuser;
```

App.js

```
import "./App.css";
import Getuser from "./Getuser";

function App() {
  return (
    <div>
      <Getuser />
    </div>
  );
}

export default App;
```

OUTPUT: