

9.Create a React Application named “cricketapp” with the following components

CODE:

ListofPlayers.js:

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

```
const ListofPlayers = () => {  
  const players = [  
    { name: 'Player1', score: 85 },  
    { name: 'Player2', score: 45 },  
    { name: 'Player3', score: 70 },  
    { name: 'Player4', score: 90 },  
    { name: 'Player5', score: 60 },  
    { name: 'Player6', score: 75 },  
    { name: 'Player7', score: 50 },  
    { name: 'Player8', score: 95 },  
    { name: 'Player9', score: 40 },  
    { name: 'Player10', score: 65 },  
    { name: 'Player11', score: 55 },  
  ];  
  
  const filteredPlayers = players.filter(player => player.score < 70);  
  
  return (  
    <div>  
      <h2>All Players with scores:</h2>  
      <ul>  
        {players.map((p, index) => (  
          <li key={index}>{p.name} - {p.score}</li>  
        ))}  
      </ul>  
  
      <h2>Players with score below 70:</h2>  
      <ul>  
        {filteredPlayers.map((p, index) => (  
          <li key={index}>{p.name} - {p.score}</li>  
        ))}  
      </ul>  
    </div>  
  );  
};
```

```
};
```

```
export default ListofPlayers;
```

IndianPlayers.js:

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

```
const IndianPlayers = () => {  
  const players = ['Sachin1', 'Dhoni2', 'Virat3', 'Rohit4', 'Yuvaraj5', 'Raina6'];
```

```
  const oddPlayers = players.filter((_, i) => i % 2 === 0); // 0,2,4  
  const evenPlayers = players.filter((_, i) => i % 2 !== 0); // 1,3,5
```

```
  const [first, , third, , fifth] = oddPlayers;  
  const [, second, , fourth, , sixth] = players;
```

```
  const T20players = ['Mr. First Player', 'Mr. Second Player', 'Mr. Third Player'];  
  const RanjiTrophyPlayers = ['Mr. Fourth Player', 'Mr. Fifth Player', 'Mr. Sixth  
Player'];
```

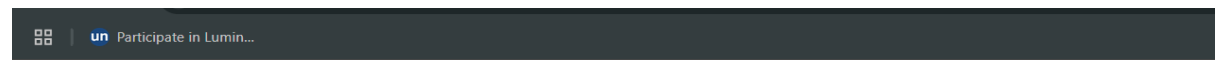
```
  const mergedPlayers = [...T20players, ...RanjiTrophyPlayers];
```

```
  return (  
    <div>  
      <h2>Odd Players</h2>  
      <ul>  
        <li>First : {first}</li>  
        <li>Third : {third}</li>  
        <li>Fifth : {fifth}</li>  
      </ul>  
  
      <h2>Even Players</h2>  
      <ul>  
        <li>Second : {second}</li>  
        <li>Fourth : {fourth}</li>  
        <li>Sixth : {sixth}</li>  
      </ul>  
  
      <h2>List of Indian Players Merged:</h2>  
      <ul>  
        {mergedPlayers.map((p, index) => (  
          <li key={index}>{p}</li>
```

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

```
export default IndianPlayers;
```

OUTPUT:



Cricket App

Odd Players

- First : Sachin1
- Third : Yuvaraj5
- Fifth :

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.

CODE:

```
import React from 'react';
import './App.css';
```

```
function App() {
  const offices = [
    {
      name: "DBS",
      rent: 50000,
      address: "Chennai",
      image:
        "https://t3.ftcdn.net/jpg/04/85/10/94/360_F_485109454_rGi42bZ3ICpVtPCEb
        AMVUUKR1I6OElo1.jpg"
    },
    {
      name: "WeWork",
      rent: 75000,
      address: "Bangalore",
      image: "https://media.istockphoto.com/id/1413721723/photo/modern-office-
        building.jpg?s=612x612&w=0&k=20&c=YKPCCIK29KKnF6DLMcUvDAjPA
        z5ut6YrjOeTyTVctTc="
    },
    {
      name: "Innov8",
      rent: 59000,
      address: "Mumbai",
      image: "https://images.unsplash.com/photo-1590490352756-cdb56ecf7e0f"
    }
  ];

  return (
    <div className="App">
      <h1>Office Space , at Affordable Range</h1>
      {offices.map((office, index) => (
        <div key={index} className="office">
          <img src={office.image} alt={office.name} width="300" />
          <h2>Name: {office.name}</h2>
        </div>
      ))}
    </div>
  );
}
```

```
<h3 style={{ color: office.rent < 60000 ? 'red' : 'green' }}>
  Rent: Rs. {office.rent}
</h3>
<p><b>Address:</b> {office.address}</p>
</div>
)}}
</div>
);
}

export default App;
```

OUTPUT:

Office Space , at Affordable Range



Name: DBS

Rent: Rs. 50000

Address: Chennai



Name: WeWork

Rent: Rs. 75000

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

CODE:

App.js:

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

```
function App() {  
  const [count, setCount] = useState(1);  
  
  const handleIncrement = () => {  
    setCount(count + 1);  
    sayHello();  
  };  
  
  const handleDecrement = () => {  
    setCount(count - 1);  
  };  
  
  const sayHello = () => {  
    console.log("Hello from eventexamplesapp!");  
  };  
  
  const sayWelcome = (message) => {
```

```

    alert(message);
  };

  const handleClick = (event) => {
    alert("I was clicked");
  };

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

      <br />
      <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();
    let convertedValue = 0;
    if (currency === "Euro") {
      convertedValue = parseFloat(amount) * 80;
      alert(`Converting to ${currency} Amount is ${convertedValue}`);
    } else if (currency === "Dollar") {
      convertedValue = parseFloat(amount) * 75;
      alert(`Converting to ${currency} Amount is ${convertedValue}`);
    } else {

```

```

    alert("Unsupported currency");
  }
};
return (
  <div>
    <h2 style={{ color: "green" }}>Currency Convertor!!!</h2>
    <form onSubmit={handleSubmit}>
      <div>
        <label>Amount: </label>
        <input
          type="number"
          value={amount}
          onChange={(e) => setAmount(e.target.value)}
          required
        />
      </div>
      <br />
      <div>
        <label>Currency: </label>
        <select
          value={currency}
          onChange={(e) => setCurrency(e.target.value)}
          required
        >
          <option value="">--Select--</option>
          <option value="Euro">Euro</option>
          <option value="Dollar">Dollar</option>
        </select>
      </div>
      <br />
      <button type="submit">Submit</button>
    </form>
  </div>
);
}
export default CurrencyConvertor;

```

OUTPUT:

1

Increment

Decrement

Say welcome

Click on me

Currency Converter!!!

Amount:

Currency:

Submit

100 almost 5000 says

Converting to Euro Amount is 8000

OK

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.

CODE:

UserPage.js:

```
import React from 'react';

function UserPage() {
  return (
    <div>
      <h1>Welcome! You can book your flight tickets.</h1>
    </div>
  );
}

export default UserPage;
```

GuestPage.js:

```
import React from 'react';

function GuestPage() {
  return (
    <div>
      <h1>Please sign up.</h1>
    </div>
  );
}

export default GuestPage;
```

App.js:

```
import React, { useState } from 'react';
import GuestPage from './GuestPage';
import UserPage from './UserPage';

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

  const toggleLogin = () => {
    setIsLoggedIn(!isLoggedIn);
  };
}
```

```
return (  
  <div style={{ textAlign: 'center', paddingTop: '50px' }}>  
    {isLoggedIn ? <UserPage /> : <GuestPage />}  
    <br />  
    <button onClick={toggleLogin}>  
      {isLoggedIn ? 'Logout' : 'Login'}  
    </button>  
  </div>  
)  
);  
}  
export default App;
```

OUTPUT:

Please sign up.

Login

Welcome! You can book your flight tickets.

Logout

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

CODE:

CourseDetails.js:

```
import React from 'react';

const CourseDetails = ({ show }) => {
  if (!show) return null;

  const courses = [
    { name: "Angular", date: "4/5/2021" },
    { name: "React", date: "6/3/2020" },
  ];

  return (
    <div>
      <h2>Course Details</h2>
      {courses.map((course, i) => (
        <div key={i}>
          <b>{course.name}</b>
          <p>{course.date}</p>
        </div>
      ))}
    </div>
  );
};

export default CourseDetails;
```

BookDetails.js:

```
import React from 'react';

const BookDetails = ({ show }) =>
  show && (
    <div>
      <h2>Book Details</h2>
      <p><b>Master React</b><br />670</p>
      <p><b>Deep Dive into Angular 11</b><br />800</p>
      <p><b>Mongo Essentials</b><br />450</p>
    </div>
  );
```

```
export default BookDetails;
```

BlogDetails.js:

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

```
function BlogDetails({ show }) {  
  return (  
    <>  
      {show ? (  
        <div>  
          <h2>Blog Details</h2>  
          <p><b>React Learning</b><br /><i>Stephen Biz</i><br />Welcome to  
learning React!</p>  
          <p><b>Installation</b><br /><i>Schwezenier</i><br />You can install  
React from npm.</p>  
        </div>  
      ) : null}  
    </>  
  );  
}
```

```
export default BlogDetails;
```

App.js:

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

```
function App() {  
  const [showCourse, setShowCourse] = useState(true);  
  const [showBook, setShowBook] = useState(true);  
  const [showBlog, setShowBlog] = useState(true);  
  
  return (  
    <div className="App">  
      <div className="container">  
        /* Conditional Rendering using "if" inside component */  
        <div className="box">  
          <CourseDetails show={showCourse} />  
        </div>  
      </div>  
    </div>  
  );  
}
```

```

    { /* Conditional Rendering using logical && operator */}
    <div className="box">
      <BookDetails show={showBook} />
    </div>

    { /* Conditional Rendering using ternary operator */}
    <div className="box">
      <BlogDetails show={showBlog} />
    </div>
  </div>
</div>
);
}

export default App;

```

OUTPUT:

Course Details	Book Details	Blog Details
Angular 4/5/2021	Master React 670	React Learning Stephen Biz Welcome to learning React!
React 6/3/20201	Deep Dive into Angular 11 800	Installation Schwezenier You can install React from npm.
	Mongo Essentials 450	

14. Developers of Apps Centric Solutions have created an employee management application which supports light and dark themes for the buttons.

CODE:

EmployeeCard.js:

```

import React, { useContext } from 'react';
import ThemeContext from './ThemeContext';

function EmployeeCard({ employee }) {

```

```
const theme = useContext(ThemeContext);

const buttonClass = theme === 'dark' ? 'btn-dark' : 'btn-light';

return (
  <div className="card">
    <h3>{employee.name}</h3>
    <p>{employee.role}</p>
    <button className={buttonClass}>View</button>
  </div>
);
}

export default EmployeeCard;
```

EmployeesList.js:

```
import React from 'react';
import EmployeeCard from './EmployeeCard';

function EmployeesList() {
  const employees = [
    { id: 1, name: 'Alice', role: 'Developer' },
    { id: 2, name: 'Bob', role: 'Designer' },
    { id: 3, name: 'Charlie', role: 'Manager' }
  ];

  return (
    <div>
      {employees.map(emp => (
        <EmployeeCard key={emp.id} employee={emp} />
      ))}
    </div>
  );
}

export default EmployeesList;
```

App.js:

```
import React, { useState } from 'react';
import EmployeesList from './EmployeesList';
import ThemeContext from './ThemeContext';
```



```
function App() {  
  const [theme, setTheme] = useState('light');  
  
  return (  
    <ThemeContext.Provider value={theme}>  
      <div className="App">  
        <h1>Employee Management App</h1>  
        <button onClick={() => setTheme(theme === 'light' ? 'dark' : 'light')}>  
          Toggle Theme  
        </button>  
        <EmployeesList />  
      </div>  
    </ThemeContext.Provider>  
  );  
}
```

```
export default App;
```

ThemeContext.js:

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

```
const ThemeContext = createContext('light');
```

```
export default ThemeContext;
```

OUTPUT:

Employee Management App

Toggle Theme

Alice

Developer

View

Bob

Designer

View

Charlie

Manager

View

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

CODE:

ComplaintRegister.js:

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

function ComplaintRegister() {
  const [name, setName] = useState("");
  const [complaint, setComplaint] = useState("");

  const handleSubmit = (e) => {
    e.preventDefault();
    const transactionId = Math.floor(Math.random() * 1000) + 1;

    alert(`Thanks ${name}\nYour Complaint was Submitted.\nTransaction ID is:
    ${transactionId}`);

    setName("");
    setComplaint("");
  };

  return (
    <div style={{ textAlign: 'center', marginTop: '50px' }}>
      <h2 style={{ color: 'red' }}><b>Register your complaints here!!!</b></h2>
      <form onSubmit={handleSubmit}>
        <div>
          <label><b>Name:</b> </label>
          <input
            type="text"
            value={name}
            onChange={(e) => setName(e.target.value)}
            required
          />
        </div><br/>
        <div>
          <label><b>Complaint:</b> </label>
          <textarea
            value={complaint}
            onChange={(e) => setComplaint(e.target.value)}
            required
          />
        </div><br/>
        <button type="submit">Submit</button>
      </form>
    </div>
  );
}
```

```
);  
}
```

```
export default ComplaintRegister;
```

App.js:

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

```
import ComplaintRegister from './components/ComplaintRegister';
```

```
function App() {
```

```
  return (
```

```
    <div className="App">
```

```
      <ComplaintRegister />
```

```
    </div>
```

```
  );
```

```
}
```

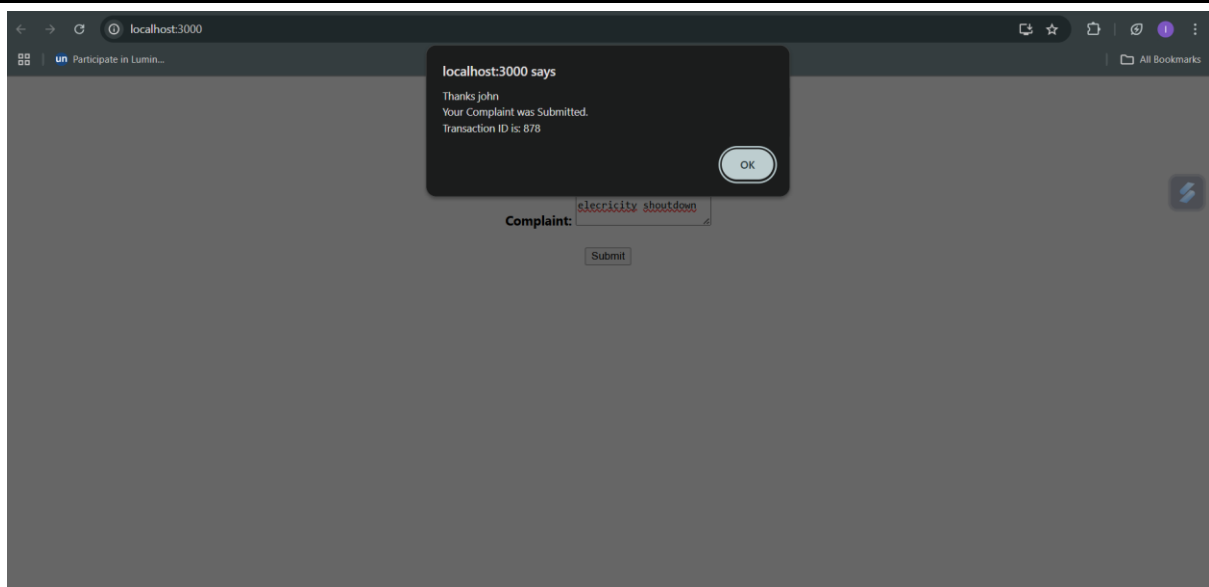
```
export default App;
```

OUTPUT:

Register your complaints here!!!

Name:

Complaint:



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

CODE:

Register.js:

```
import React, { useState } from 'react';
function Register() {
  const [form, setForm] = useState({ name: "", email: "", password: "" });
  const [errors, setErrors] = useState({});

  const handleChange = (e) => {
    const { name, value } = e.target;
    setForm({ ...form, [name]: value });

    // Live validation
    let tempErrors = { ...errors };
    if (name === 'name' && value.length < 5) {
      tempErrors.name = 'Name must be at least 5 characters';
    } else if (name === 'email' && (!value.includes('@') || !value.includes('.'))) {
      tempErrors.email = 'Email must contain "@" and "."';
    } else if (name === 'password' && value.length < 8) {
```

```

    tempErrors.password = 'Password must be at least 8 characters';
  } else {
    delete tempErrors[name];
  }
  setErrors(tempErrors);
};

const handleSubmit = (e) => {
  e.preventDefault();
  let validationErrors = {};
  if (form.name.length < 5) {
    validationErrors.name = 'Name must be at least 5 characters';
  }
  if (!form.email.includes('@') || !form.email.includes('.')) {
    validationErrors.email = 'Email must contain "@" and "."';
  }
  if (form.password.length < 8) {
    validationErrors.password = 'Password must be at least 8 characters';
  }

  if (Object.keys(validationErrors).length > 0) {
    setErrors(validationErrors);
  } else {
    alert('Form Submitted Successfully');
    setForm({ name: "", email: "", password: "" });
    setErrors({});
  }
};

return (
  <div style={{ padding: '20px' }}>
    <h2>Register</h2>
    <form onSubmit={handleSubmit}>
      <div>
        <label>Name: </label><br />
        <input
          type="text"
          name="name"
          value={form.name}
          onChange={handleChange}
        />
        {errors.name && <div style={{ color: 'red' }}>{errors.name}</div>}
      </div>
    </form>
  </div>
);

```

```

    </div>
    <div>
      <label>Email: </label><br />
      <input
        type="email"
        name="email"
        value={form.email}
        onChange={handleChange}
      />
      {errors.email && <div style={{ color: 'red' }}>{errors.email}</div>}
    </div>
    <div>
      <label>Password: </label><br />
      <input
        type="password"
        name="password"
        value={form.password}
        onChange={handleChange}
      />
      {errors.password && <div style={{ color: 'red'
}}>{errors.password}</div>}
    </div>
    <br />
    <button type="submit">Register</button>
  </form>
</div>
);
}

```

export default Register;

App.js:

import React from 'react';

import Register from './Register';

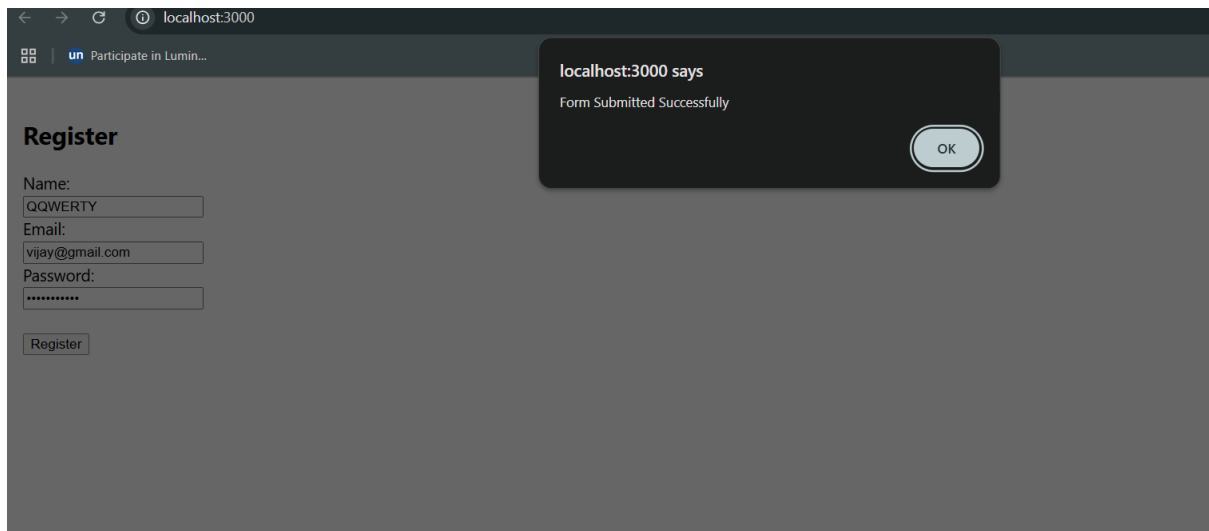
```

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

```

export default App;

OUTPUT:



Register

Name:

Email:

Password:

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.

CODE:

Getuser.js:

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

```
class Getuser extends Component {  
  constructor() {  
    super();  
    this.state = {  
      name: "",
```



```
        image: "
      };
    }

    async componentDidMount() {
      const response = await fetch("https://api.randomuser.me/");
      const data = await response.json();
      const user = data.results[0];

      this.setState({
        name: `Mr ${user.name.first} ${user.name.last}`,
        image: user.picture.medium
      });
    }

    render() {
      return (
        <div style={{ textAlign: 'center', marginTop: '50px' }}>
          <h1>{this.state.name}</h1>
          <img src={this.state.image} alt="User" />
        </div>
      );
    }
  }
}
export default GetUser;
```

OUTPUT:

Mr Nixon Williams

