

WEEK – 7

1) 9. ReactJS-HOL

ListofPlayers.js

```
import React from 'react';
const ListofPlayers = () => {
  const players = [
    { name: 'Rohit', score: 80 },
    { name: 'Virat', score: 65 },
    { name: 'Gill', score: 50 },
    { name: 'Rahul', score: 90 },
    { name: 'Jadeja', score: 70 },
    { name: 'Hardik', score: 40 },
    { name: 'Shami', score: 85 },
    { name: 'Bumrah', score: 60 },
    { name: 'Pant', score: 95 },
    { name: 'Ashwin', score: 55 },
    { name: 'Surya', score: 72 },
  ];
  const filteredPlayers = players.filter(player => player.score < 70);
  return (
    <div>
      <h2>All Players</h2>
      <ul>
        {players.map((p, index) => (
          <li key={index}>{p.name} - {p.score}</li>
        ))}
      </ul>
      <h3>Players with score below 70</h3>
      <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 oddPlayers = ['Rohit', 'Gill', 'Jadeja', 'Shami', 'Pant'];
  const evenPlayers = ['Virat', 'Rahul', 'Hardik', 'Bumrah', 'Ashwin', 'Surya'];
  const [p1, p2, p3, ...restOdd] = oddPlayers;
  const [e1, e2, e3, ...restEven] = evenPlayers;
  const T20players = ['Rohit', 'Virat', 'Hardik'];
  const RanjiTrophyPlayers = ['Jaiswal', 'Sarfraz', 'Iyer'];
  const allPlayers = [...T20players, ...RanjiTrophyPlayers]; // ES6 Merge feature
  return (
    <div>
      <h2>Odd Team Players (Destructured)</h2>
      <ul>
        <li>{p1}</li>
        <li>{p2}</li>
        <li>{p3}</li>
      </ul>
      <h2>Even Team Players (Destructured)</h2>
      <ul>
        <li>{e1}</li>
        <li>{e2}</li>
        <li>{e3}</li>
      </ul>
      <h2>Merged List (T20 + Ranji Players)</h2>
      <ul>
        {allPlayers.map((p, i) => <li key={i}>{p}</li>)}
      </ul>
    </div>
  );
}; export default IndianPlayers;
```

App.js

```
import React from 'react';
import ListofPlayers from './ListofPlayers';
import IndianPlayers from './IndianPlayers';
function App() {
  const flag = true; // Toggle this to false to see the other component
  return (
    <div className="App">
      <h1> Cricket App</h1>
      {flag ? <ListofPlayers /> : <IndianPlayers />}
    </div>
  );
}

export default App;
```

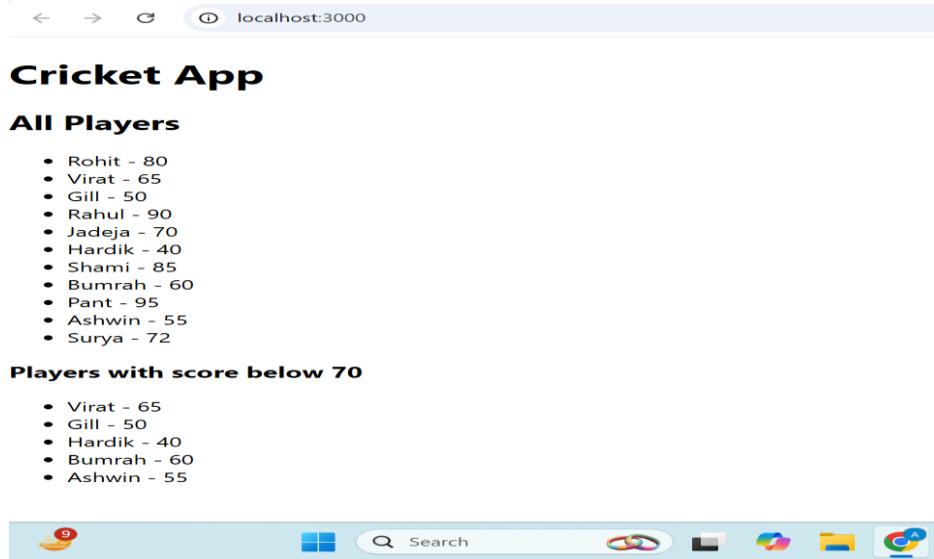
```

        </div>
    );
}

export default App;

```

OUTPUT :



2) 10. ReactJS-HOL

App.js

```

import React from 'react';

function App() {
  const heading = <h1 style={{ textAlign: 'center' }}>Office Space Rental App</h1>

  const imageURL = "https://synergyestates.in/wp-content/uploads/2025/03/office-space-fore-rent.jpg";
  const office = {
    name: "CyberTech Park",
    rent: 55000,
    address: "Sector 21, Bengaluru"
  };
  const offices = [
    { name: "InnovateHub", rent: 45000, address: "Indiranagar" },
    { name: "TechSpace", rent: 65000, address: "Koramangala" },
    { name: "WorkNest", rent: 55000, address: "HSR Layout" },
    { name: "StartX", rent: 75000, address: "MG Road" },
  ];
}

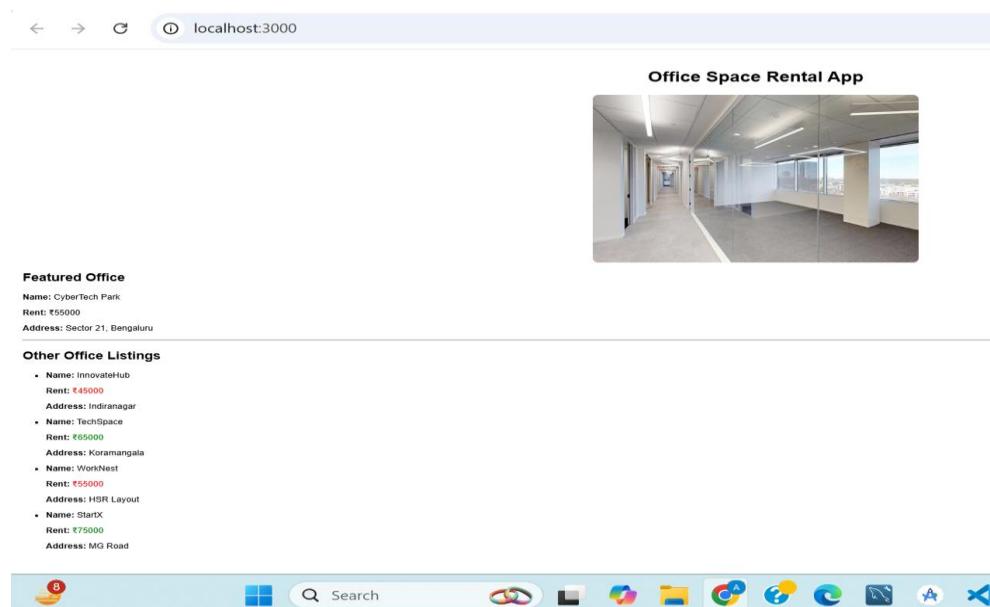
```

```

return (
<div style={{ fontFamily: 'Arial', padding: '20px' }}>
  {heading}
  <img src={imageUrl} alt="Office Space" style={{ display: 'block', margin: '20px auto', borderRadius: '10px' }} />
  <h2>Featured Office</h2>
  <p><strong>Name:</strong> {office.name}</p>
  <p><strong>Rent:</strong> ₹{office.rent}</p>
  <p><strong>Address:</strong> {office.address}</p>
  <hr />
  <h2>Other Office Listings</h2>
  <ul>
    {offices.map((item, index) => {
      const rentColor = item.rent < 60000 ? 'red' : 'green'; // ↪ 7. Conditional inline CSS
      return (
        <li key={index} style={{ marginBottom: '15px' }}>
          <p><strong>Name:</strong> {item.name}</p>
          <p><strong>Rent:</strong> <span style={{ color: rentColor }}>₹{item.rent}</span></p>
          <p><strong>Address:</strong> {item.address}</p>
        </li>
      );
    ))}
  </ul>
</div>
);
}
export default App;

```

OUTPUT:



3) 11. ReactJS-HOL

Counter.js

```
import React, { Component } from 'react';
class Counter extends Component{
  constructor() {
    super();
    this.state = {
      count: 0
    };
    this.increment = this.increment.bind(this);
    this.sayHello = this.sayHello.bind(this);
    this.handleIncrement = this.handleIncrement.bind(this);
    this.decrement = this.decrement.bind(this);
    this.sayWelcome = this.sayWelcome.bind(this);
    this.handleSyntheticClick = this.handleSyntheticClick.bind(this);
  }
  increment() {
    this.setState({ count: this.state.count + 1 });
  }
  decrement() {
    this.setState({ count: this.state.count - 1 });
  }
  sayHello() {
    console.log('Hello! This is a static message.');
  }
  handleIncrement() {
    this.increment();
    this.sayHello(); // Multiple methods
  }
  sayWelcome(message) {
    alert(message);
  }
  handleSyntheticClick(event) {
    alert("I was clicked");
    console.log(event); // Synthetic Event
  }
  render() {
    return (
      <div style={{ padding: '20px', borderBottom: '2px solid #ccc' }}>
        <h2>Counter: {this.state.count}</h2>
        <button onClick={this.handleIncrement}>Increment</button>&nbsp;
        <button onClick={this.decrement}>Decrement</button>
        <hr />
        <button onClick={() => this.sayWelcome("Welcome!")}>Say Welcome</button>
        <hr />
        <button onClick={this.handleSyntheticClick}>Synthetic Event Button</button>
      </div>
    );
  }
}
```

```
}
```

```
export default Counter;
```

CurrencyConverter.js

```
import React, { useState } from 'react';
const CurrencyConverter = () => {
  const [inr, setInr] = useState("");
  const [euro, setEuro] = useState("");
  const handleSubmit = (e) => {
    e.preventDefault();
    const euroValue = (parseFloat(inr) / 90).toFixed(2);
    setEuro(euroValue);
  };
  return (
    <div style={{ padding: '20px' }}>
      <h2>Currency Converter (INR to Euro)</h2>
      <form onSubmit={handleSubmit}>
        <label>INR Amount:</label><br />
        <input
          type="number"
          value={inr}
          onChange={(e) => setInr(e.target.value)}
        /><br /><br />
        <button type="submit">Convert</button>
      </form>
      {euro && <p><strong>Converted Euro:</strong> €{euro}</p>}
    </div>
  );
};
export default CurrencyConverter;
```

App.js

```
import React from 'react';
import Counter from './Counter';
import CurrencyConverter from './CurrencyConverter';
function App() {
  return (
    <div style={{ textAlign: 'center', fontFamily: 'Arial' }}>
      <h1>React Event Handling Examples</h1>
      <Counter />
      <CurrencyConverter />
    </div>
  );
}
export default App;
```

OUTPUT:

The screenshot shows a web browser window with the URL `localhost:3000`. The page title is **React Event Handling Examples**. The first section is titled **Counter: 6**, which includes three buttons: **Increment**, **Decrement**, **Say Welcome**, and **Synthetic Event Button**. The second section is titled **Currency Converter (INR to Euro)**, featuring an input field for **INR Amount** and a **Convert** button.

A modal dialog box is displayed in the center of the screen, containing the text "localhost:3000 says" and "Welcome!". An **OK** button is at the bottom right of the dialog. The background shows the Windows taskbar with various pinned icons and system status indicators.

The screenshot shows the same web browser window. In the **Currency Converter (INR to Euro)** section, the **INR Amount** input field contains the value **54000**. Below the input field is a **Convert** button. Underneath the button, the text **Converted Euro: €600.00** is displayed. The background shows the Windows taskbar with various pinned icons and system status indicators.

4) 12. ReactJS-HOL

GuestPage.js

```
import React from 'react';
function GuestPage() {
  return (
    <div>
      <h2>Welcome Guest!</h2>
      <p>You can view flight details but cannot book tickets.</p>
      <ul>
        <li>Flight: AI 202 | From: Delhi → Mumbai | Time: 10:00 AM</li>
        <li>Flight: Indigo 501 | From: Chennai → Bangalore | Time: 1:00 PM</li>
      </ul>
    </div>
  );
}
export default GuestPage;
```

UserPage.js

```
import React from 'react';
function UserPage() {
  return (
    <div>
      <h2>Welcome Back, User!</h2>
      <p>You can book tickets below:</p>
      <button>Book AI 202</button>&nbsp;
      <button>Book Indigo 501</button>
    </div>
  );
}
export default UserPage;
```

App.js

```
import React, { useState } from 'react';
import GuestPage from './GuestPage';
import UserPage from './UserPage';
function App() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);
  let content;
  if (isLoggedIn) {
    content = <UserPage />;
  } else {
    content = <GuestPage />;
  }
  return (
    <div style={{ textAlign: 'center', fontFamily: 'Arial', padding: '20px' }}>
      <h1> ✈ Ticket Booking App</h1>
      {content}
    </div>
  );
}
export default App;
```

```

<br /><br />
/* Toggle login/logout button */
isLoggedIn ? (
  <button onClick={() => setIsLoggedIn(false)}>Logout</button>
) : (
  <button onClick={() => setIsLoggedIn(true)}>Login</button>
)
</div>
);
}
export default App;

```

OUTPUT:

The screenshots show the progression of a user interacting with a React application. The first screenshot is for a guest user, displaying flight information and a login button. The second screenshot shows the user logged in, with booking options for two flights and a logout button. The third screenshot is a repeat of the second, showing the user remains logged in.

5) 13. ReactJS-HOL

BlogDetails.js

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

```
function BlogDetails() {
  return (
```

```
<div>
  <h2>📝 Blog Highlights</h2>
  <p>1. How to Learn React</p>
  <p>2. State vs Props Explained</p>
</div>
);
}

export default BlogDetails;
```

CourseDetails.js

```
import React from 'react';
function CourseDetails(){
  return (
    <div>
      <h2>🎓 Available Courses</h2>
      <ul>
        <li>React Fundamentals</li>
        <li>Advanced JavaScript</li>
        <li>Web Accessibility</li>
      </ul>
    </div>
  );
}
export default CourseDetails;
```

BookDetails.js

```
import React from 'react';
function BookDetails({ books }) {
  return (
    <div>
      <h2>📖 Book List</h2>
      <ul>
        {books.map((book, index) => (
          <li key={book.id}>
            <strong>{book.title}</strong> by {book.author}
          </li>
        ))}
      </ul>
    </div>
  );
}
export default BookDetails;
```

App.js

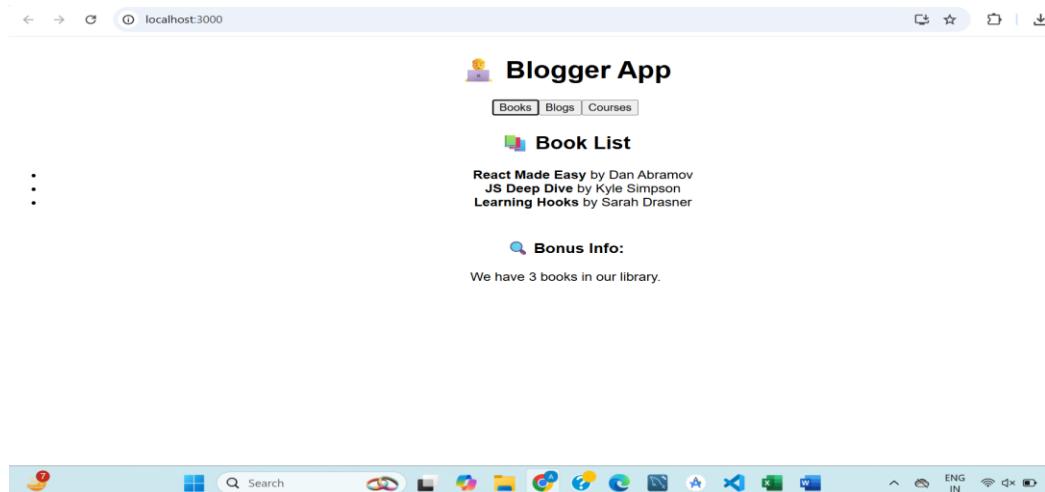
```
import React, { useState } from 'react';
import BookDetails from './BookDetails';
import BlogDetails from './BlogDetails';
```

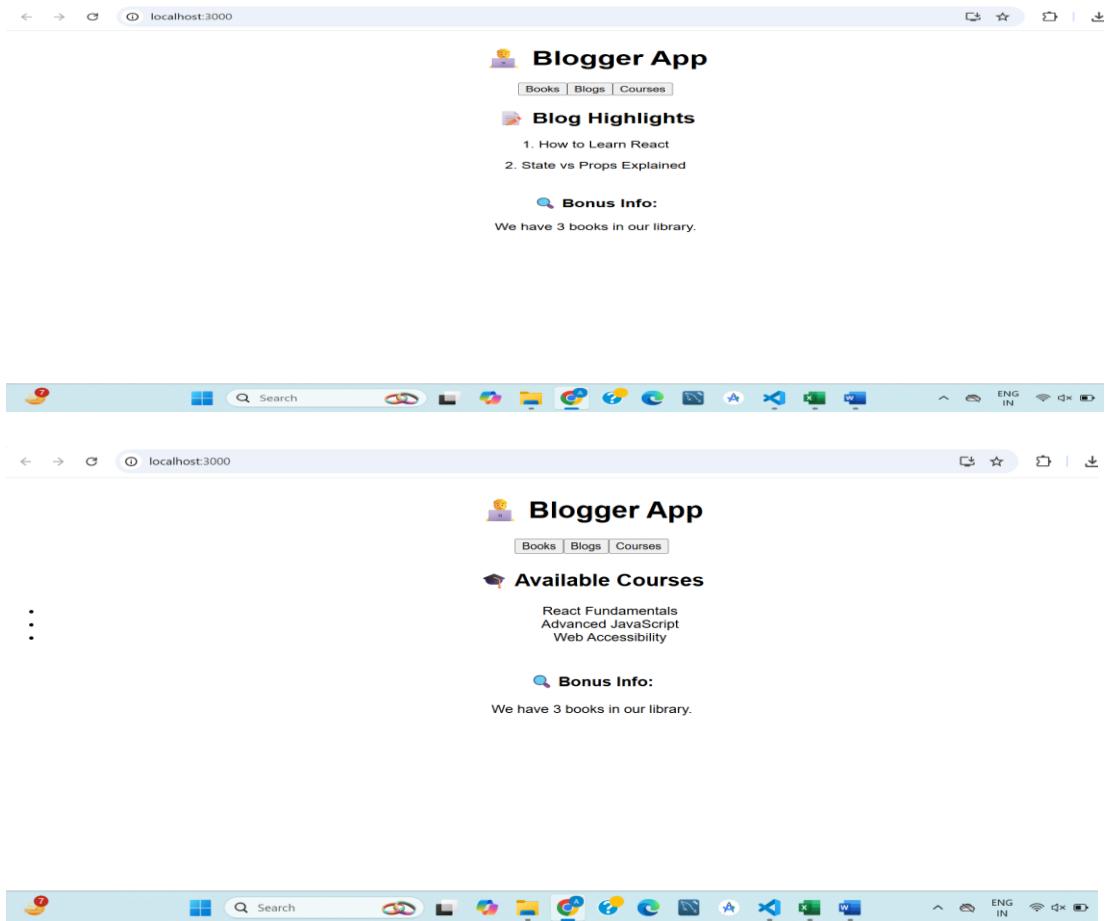
```

import CourseDetails from './CourseDetails';
function App() {
  const [view, setView] = useState('books'); // default view
  const books = [
    { id: 1, title: "React Made Easy", author: "Dan Abramov" },
    { id: 2, title: "JS Deep Dive", author: "Kyle Simpson" },
    { id: 3, title: "Learning Hooks", author: "Sarah Drasner" },
  ];
  let content;
  if (view === 'books') {
    content = <BookDetails books={books} />;
  } else if (view === 'blogs') {
    content = <BlogDetails />;
  } else {
    content = <CourseDetails />;
  }
  return (
    <div style={{ textAlign: 'center', fontFamily: 'sans-serif' }}>
      <h1>💻 Blogger App</h1>
      <div style={{ marginBottom: '20px' }}>
        <button onClick={() => setView('books')}>Books</button>
        <button onClick={() => setView('blogs')}>Blogs</button>
        <button onClick={() => setView('courses')}>Courses</button>
      </div>
      {content}
      <div style={{ marginTop: '40px' }}>
        <h3>🔍 Bonus Info:</h3>
        {books.length > 0 && <p>We have {books.length} books in our library.</p>}
      </div>
    </div>
  );
}
export default App;

```

OUTPUT:





ADDITIONAL EXERCISES

- 6) 13. ReactJS-HOL

BlogDetails.js

```
import React from 'react';

function BlogDetails() {
  return (
    <div>
      <h2>📝 Blog Highlights</h2>
      <p>1. How to Learn React</p>
      <p>2. State vs Props Explained</p>
    </div>
  );
}

export default BlogDetails;
```

CourseDetails.js

```
import React from 'react';
function CourseDetails() {
  return (
    <div>
      <h2> ↗ Available Courses</h2>
      <ul>
        <li>React Fundamentals</li>
        <li>Advanced JavaScript</li>
        <li>Web Accessibility</li>
      </ul>
    </div>
  );
}
export default CourseDetails;
```

BookDetails.js

```
import React from 'react';
function BookDetails({ books }) {
  return (
    <div>
      <h2> 📚 Book List</h2>
      <ul>
        {books.map((book, index) => (
          <li key={book.id}>
            <strong>{book.title}</strong> by {book.author}
          </li>
        ))}
      </ul>
    </div>
  );
}
export default BookDetails;
```

App.js

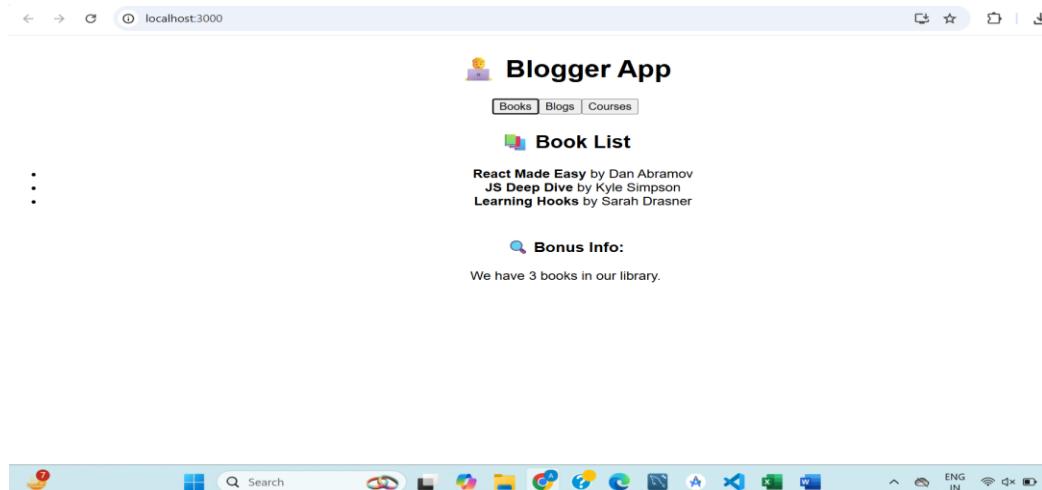
```
import React, { useState } from 'react';
import BookDetails from './BookDetails';
import BlogDetails from './BlogDetails';
import CourseDetails from './CourseDetails';
function App() {
  const [view, setView] = useState('books'); // default view
  const books = [
    { id: 1, title: "React Made Easy", author: "Dan Abramov" },
    { id: 2, title: "JS Deep Dive", author: "Kyle Simpson" },
    { id: 3, title: "Learning Hooks", author: "Sarah Drasner" },
  ];
  let content;
  if (view === 'books') {
```

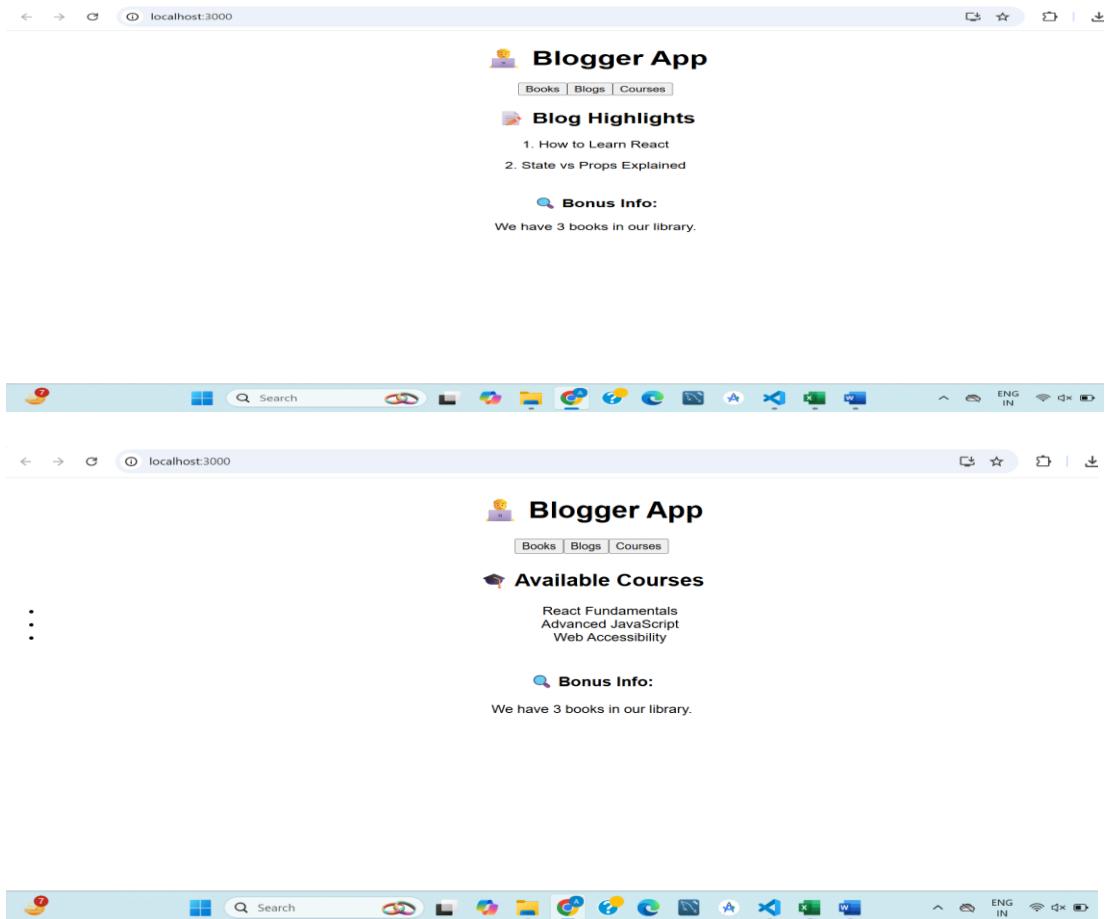
```

content = <BookDetails books={books} />;
} else if (view === 'blogs') {
  content = <BlogDetails />;
} else {
  content = <CourseDetails />;
}
return (
  <div style={{ textAlign: 'center', fontFamily: 'sans-serif' }}>
    <h1>💻 Blogger App</h1>
    <div style={{ marginBottom: '20px' }}>
      <button onClick={() => setView('books')}>Books</button>
      <button onClick={() => setView('blogs')}>Blogs</button>
      <button onClick={() => setView('courses')}>Courses</button>
    </div>
    {content}
    <div style={{ marginTop: '40px' }}>
      <h3>🔍 Bonus Info:</h3>
      {books.length > 0 && <p>We have {books.length} books in our library.</p>}
    </div>
  </div>
);
}
export default App;

```

OUTPUT:





7) 14. ReactJS-HOL

EmployeeCard.js

```
import React, { useContext } from 'react';
import ThemeContext from './ThemeContext';
const EmployeeCard = ({ employee }) => {
  const theme = useContext(ThemeContext);
  const buttonClass = theme === 'dark' ? 'btn-dark' : 'btn-light';
  return (
    <div className="employee-card">
      <h3>{employee.name}</h3>
      <p>Role: {employee.role}</p>
      <button className={buttonClass}>Message</button>
    </div>
  );
};
export default EmployeeCard;
```

EmployeeList.js

```
import React from 'react';
import EmployeeCard from './EmployeeCard';
const EmployeesList = () => {
```

```

const employees = [
  { id: 1, name: 'Alice', role: 'Developer' },
  { id: 2, name: 'Bob', role: 'Designer' },
  { id: 3, name: 'Charlie', role: 'Tester' },
];
return (
  <div>
    <h2>Employee List</h2>
    {employees.map(emp => (
      <EmployeeCard key={emp.id} employee={emp}/>
    )))
  </div>
);
};

export default EmployeesList;

```

ThemeContext.js

```

import { createContext } from 'react';
const ThemeContext = createContext('light'); // default theme = light
export default ThemeContext;

```

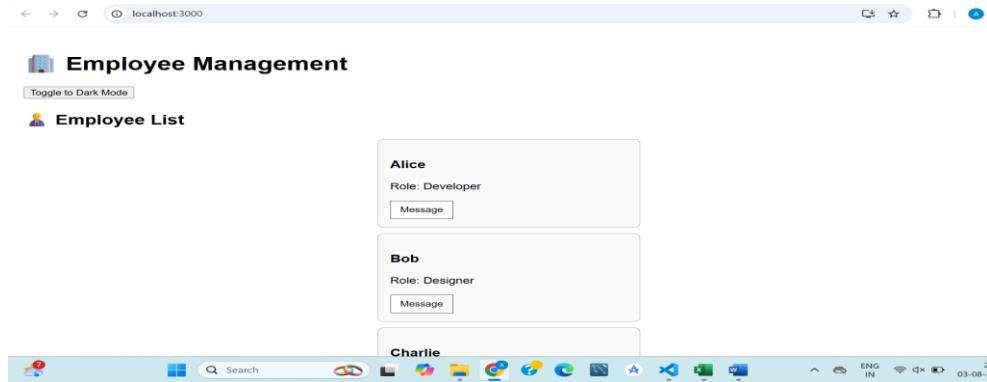
App.js

```

import React, { useState } from 'react';
import EmployeesList from './EmployeesList';
import ThemeContext from './ThemeContext';
import './App.css';
function App() {
  const [theme, setTheme] = useState('light');
  const toggleTheme = () =>
    setTheme(prev => (prev === 'light' ? 'dark' : 'light'));
  return (
    <ThemeContext.Provider value={theme}>
      <div className={`app-container ${theme}`}>
        <h1>Employee Management</h1>
        <button onClick={toggleTheme}>
          Toggle to {theme === 'light' ? 'Dark' : 'Light'} Mode
        </button>
        <EmployeesList />
      </div>
    </ThemeContext.Provider>
  );
}
export default App;

```

OUTPUT:



8) 15. ReactJS-HOL

ComplaintRegister.js

```
import React, { useState } from 'react';
function ComplaintRegister() {
  const [employeeName, setEmployeeName] = useState("");
  const [complaint, setComplaint] = useState("");
  const handleSubmit = (e) => {
    e.preventDefault();
    const referenceNo = Math.floor(100000 + Math.random() * 900000); // 6-digit ref no
    alert(`Complaint Submitted Successfully!\n\nEmployee Name: ${employeeName}\nComplaint: ${complaint}\nReference No: ${referenceNo}`);
  }

  // Clear form
  setEmployeeName("");
  setComplaint("");
};

return (
  <div style={{
    maxWidth: '500px',
    margin: '40px auto',
    padding: '20px',
    border: '1px solid #ccc',
    borderRadius: '8px',
    fontFamily: 'Arial'
  }>
    <h2>Raise a Complaint <input type="file"/></h2>
    <form onSubmit={handleSubmit}>
      <div>
        <label>Employee Name:</label><br />
        <input
          type="text"
          value={employeeName}
          onChange={(e) => setEmployeeName(e.target.value)}>
      </div>
    </form>
  </div>
)
```

```

        required
        style={{ width: '100%', padding: '8px', marginBottom: '15px' }}
      />
    </div>
    <div>
      <label>Complaint:</label><br />
      <textarea
        value={complaint}
        onChange={(e) => setComplaint(e.target.value)}
        rows="4"
        required
        style={{ width: '100%', padding: '8px', marginBottom: '15px' }}
      />
    </div>

    <button
      type="submit"
      style={{ padding: '10px 20px', cursor: 'pointer', backgroundColor: '#007bff', color: 'white', border: 'none' }}
    >
      Submit Complaint
    </button>
  </form>
</div>
);
}

export default ComplaintRegister;

```

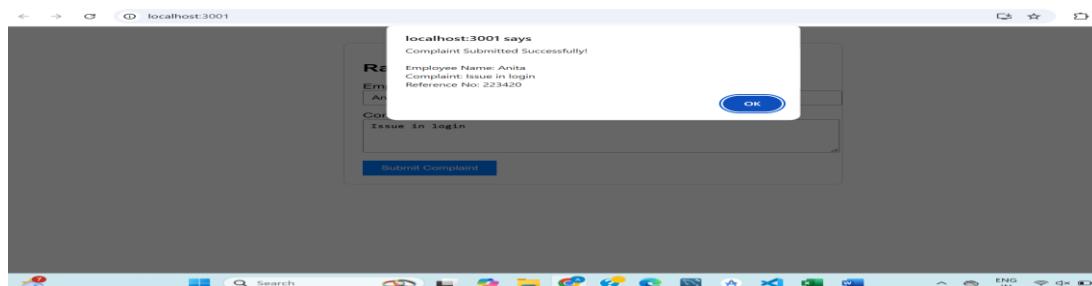
App.js

```

import React from 'react';
import ComplaintRegister from './ComplaintRegister';
function App() {
  return (
    <div className="App">
      <ComplaintRegister />
    </div>
  );
}
export default App;

```

OUTPUT :



9) 16. ReactJS-HOL

Register.js

```
import React, { useState } from 'react';
function Register() {
  const [formData, setFormData] = useState({
    name: '',
    email: '',
    password: ''
  });
  const [errors, setErrors] = useState({});
  const validate = () => {
    const newErrors = {};
    if (formData.name.trim().length < 5) {
      newErrors.name = 'Name should be at least 5 characters.';
    }
    if (!formData.email.includes('@') || !formData.email.includes('.')) {
      newErrors.email = 'Enter a valid email (must include @ and .)';
    }
    if (formData.password.length < 8) {
      newErrors.password = 'Password should be at least 8 characters.';
    }
    setErrors(newErrors);
    return Object.keys(newErrors).length === 0;
  };
  const handleChange = (e) => {
    const { name, value } = e.target;
    setFormData((prev) => ({
      ...prev,
      [name]: value,
    }));
    setErrors((prevErrors) => ({
      ...prevErrors,
      [name]: '',
    }));
  };
  const handleSubmit = (e) => {
    e.preventDefault();
    if (validate()) {
      alert(`Registration Successful!\n\nName: ${formData.name}\nEmail: ${formData.email}`);
      setFormData({ name: '', email: '', password: '' });
      setErrors({});
    }
  };
  return (
    <div style={{ maxWidth: '500px', margin: '50px auto', padding: '20px', border: '1px solid #ccc', borderRadius: '8px', fontFamily: 'Arial' }}>
      <h2>Mail Register Form</h2>
      <form onSubmit={handleSubmit}>
```

```

<div style={{ marginBottom: '15px' }}>
  <label>Name:</label><br />
  <input
    type="text"
    name="name"
    value={formData.name}
    onChange={handleChange}
    required
    style={{ width: '100%', padding: '8px' }}
  />
  {errors.name && <p style={{ color: 'red' }}>{errors.name}</p>}
</div>
<div style={{ marginBottom: '15px' }}>
  <label>Email:</label><br />
  <input
    type="email"
    name="email"
    value={formData.email}
    onChange={handleChange}
    required
    style={{ width: '100%', padding: '8px' }}
  />
  {errors.email && <p style={{ color: 'red' }}>{errors.email}</p>}
</div>
<div style={{ marginBottom: '15px' }}>
  <label>Password:</label><br />
  <input
    type="password"
    name="password"
    value={formData.password}
    onChange={handleChange}
    required
    style={{ width: '100%', padding: '8px' }}
  />
  {errors.password && <p style={{ color: 'red' }}>{errors.password}</p>}
</div>
  <button type="submit" style={{ padding: '10px 20px', backgroundColor: '#007bff', color: 'white', border: 'none', cursor: 'pointer' }}>
    Register
  </button>
</form>
</div>
);
}
export default Register;

```

App.js

```

import React from 'react';
import ComplaintRegister from './ComplaintRegister';
function App() {

```

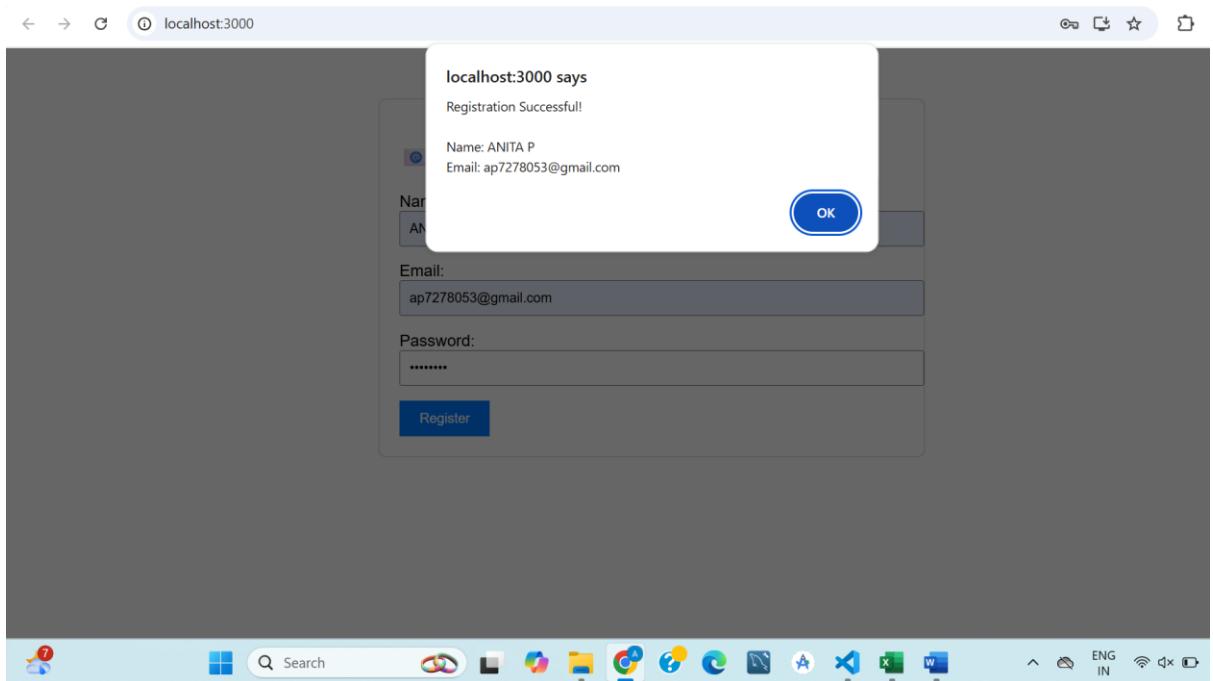
```

return (
  <div className="App">
    <ComplaintRegister />
  </div>
);
}

export default App;

```

OUTPUT :



10) 17. ReactJS-HOL

Getuser.js

```

import React, { Component } from 'react';

class Getuser extends Component {
constructor(props){
  super(props);
  this.state = {
    user: null
  };
}
async componentDidMount() {
  try{
    const response = await fetch('https://api.randomuser.me/');
    const data = await response.json();
    const fetchedUser = data.results[0];
    this.setState({

```

```

        user: {
          title: fetchedUser.name.title,
          firstName: fetchedUser.name.first,
          picture: fetchedUser.picture.large
        }
      });
    } catch (error) {
      console.error('Error fetching user:', error);
    }
  }
  render() {
    const { user } = this.state;
    return (
      <div style={{ textAlign: 'center', marginTop: '50px' }}>
        <h2>👤 Random User</h2>
        {user ? (
          <div>
            <img
              src={user.picture}
              alt="User"
              style={{ borderRadius: '50%', width: '150px', height: '150px' }}
            />
            <h3>{user.title} {user.firstName}</h3>
          </div>
        ) : (
          <p>Loading user data...</p>
        )}
      </div>
    );
  }
}

export default Getuser;

```

App.js

```

import React from 'react';
import Getuser from './Getuser';

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

export default App;

```

OUTPUT:

