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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 (

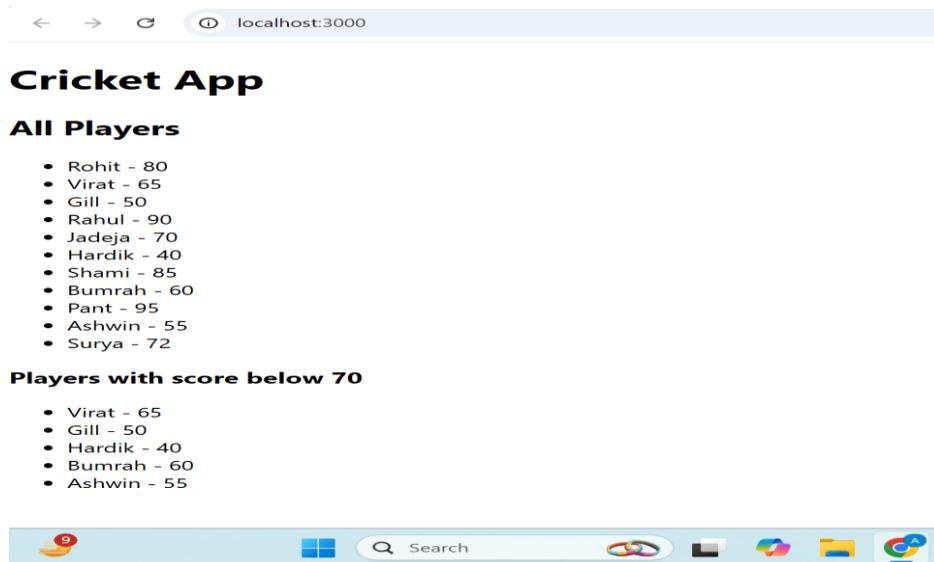
```

```

<div className="App">
  <h1> Cricket App</h1>
  {flag ? <ListofPlayers /> : <IndianPlayers />}
</div>
);
}
export default App;

```

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" },
  ];
}

export default App;

```

```

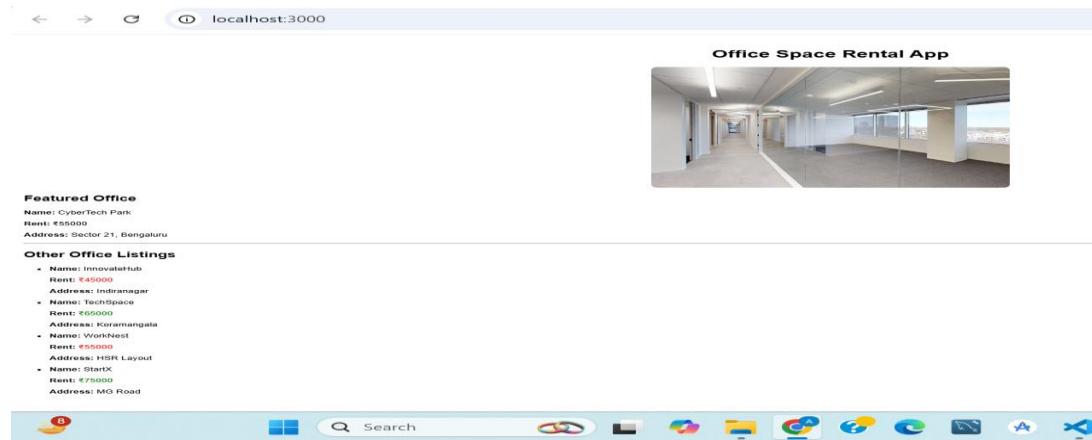
    { name: "StartX", rent: 75000, address: "MG Road" },
  ];
}

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;
```

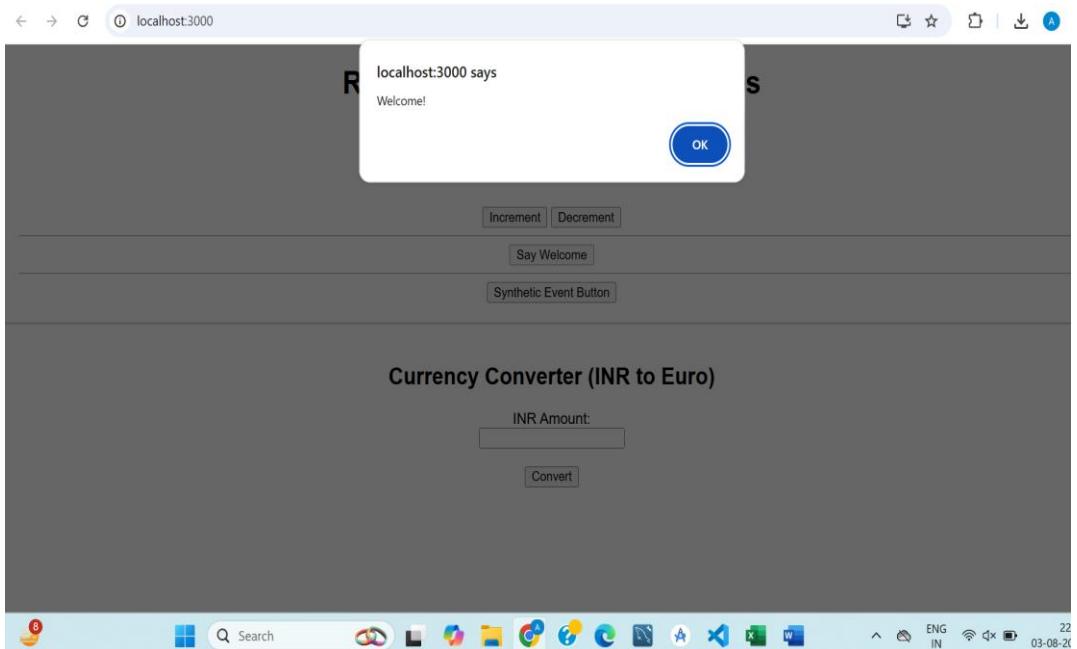
CurrencyConverter.js

```
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:



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>
    </div>
  );
}
export default App;
```

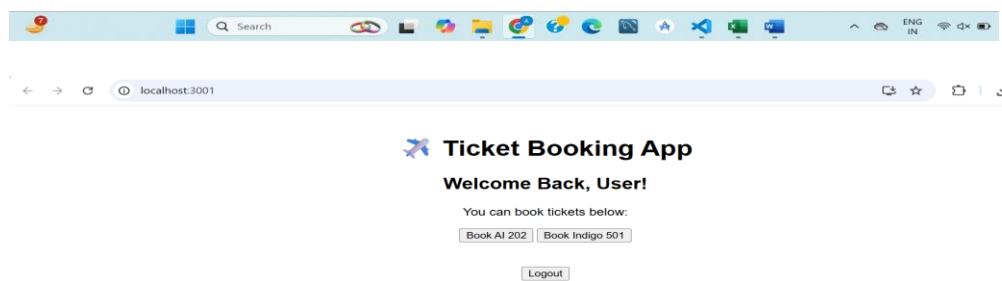
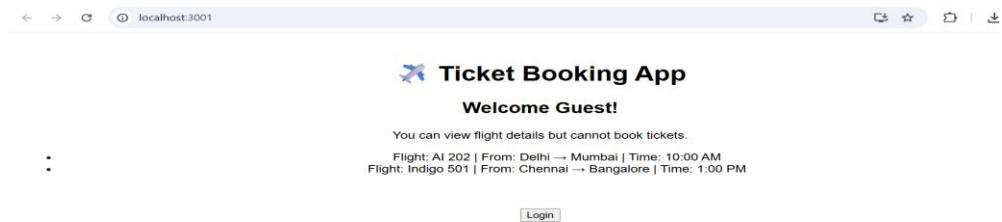
```

{content}

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

```

OUTPUT:



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

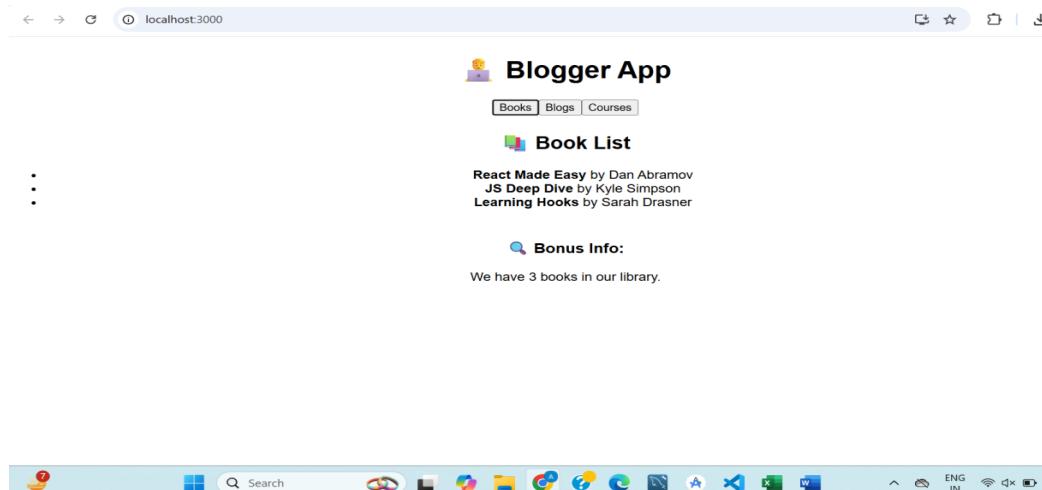
```
import React, { useState } from 'react';
import BookDetails from './BookDetails';
```

```

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;
```

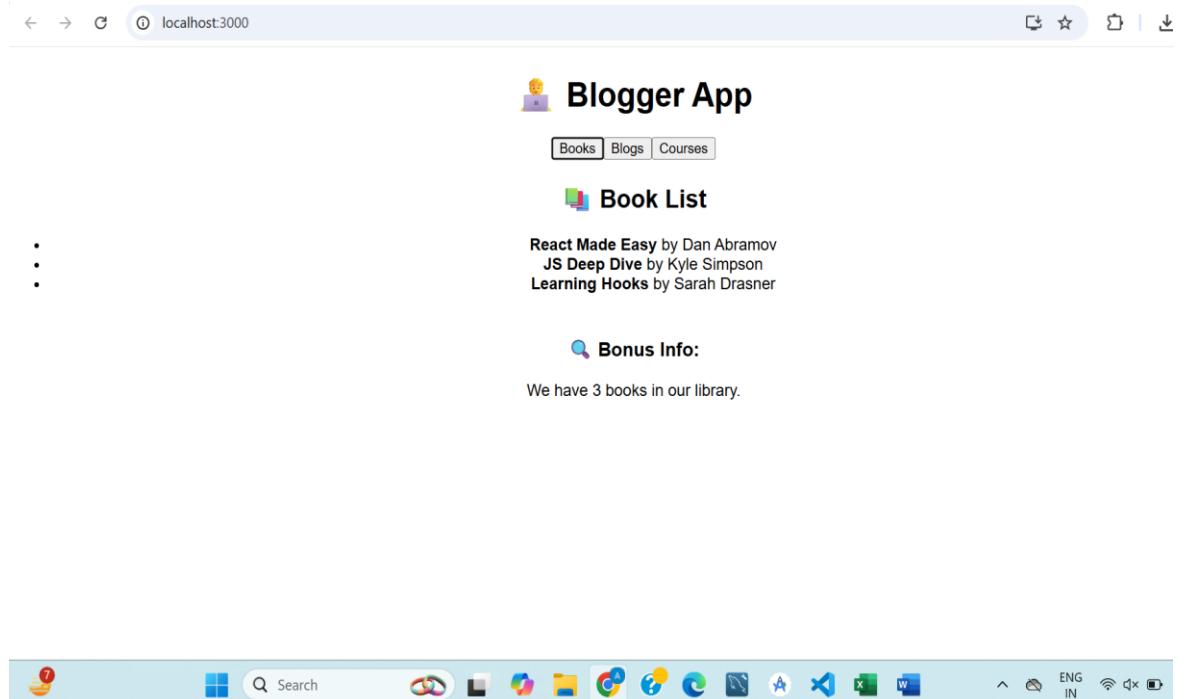
```

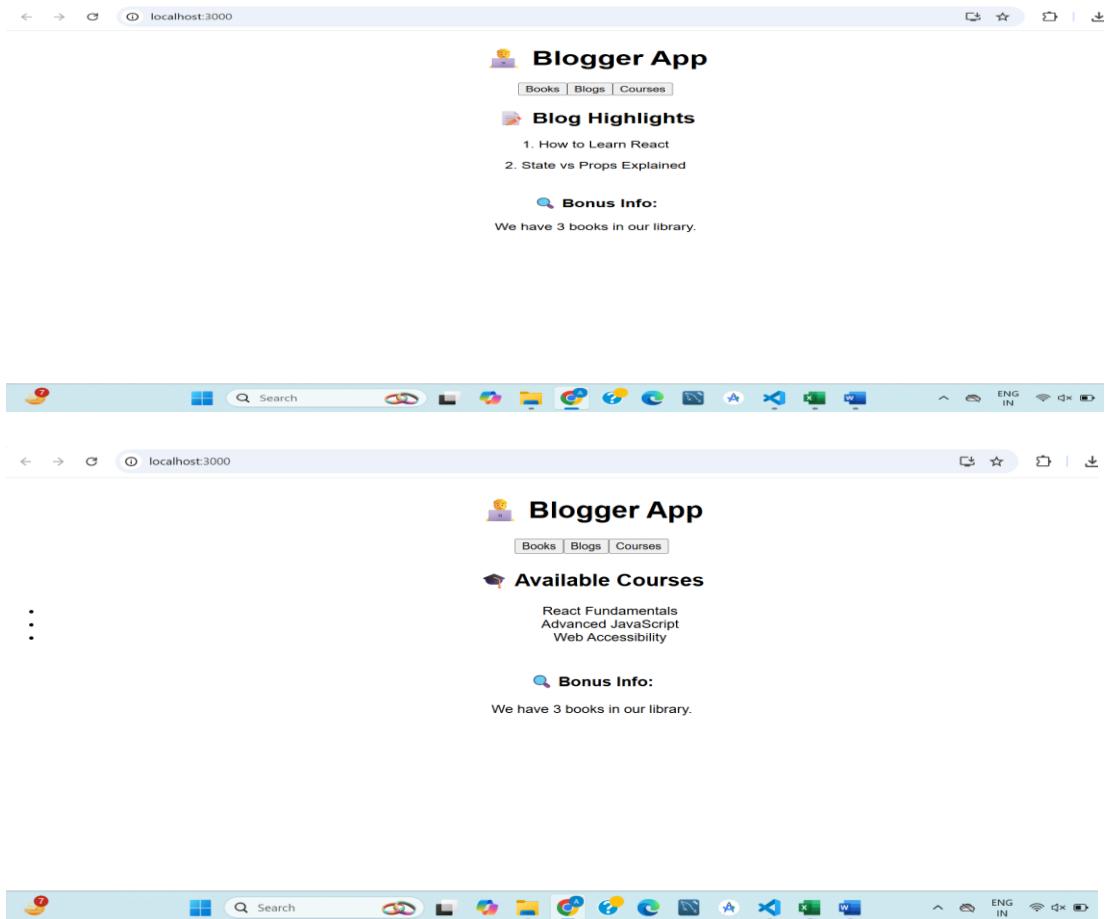
if (view === 'books') {
  content = <BookDetails books={books} />;
} else if (view === 'blogs') {
  content = <BlogDetails />;
} else {
  content = <CourseDetails />;
}
return (
  <div style={{ textAlign: 'center', fontFamily: 'sans-serif' }}>
    <h1>💻 Blogger App</h1>
    <div style={{ marginBottom: '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;

```

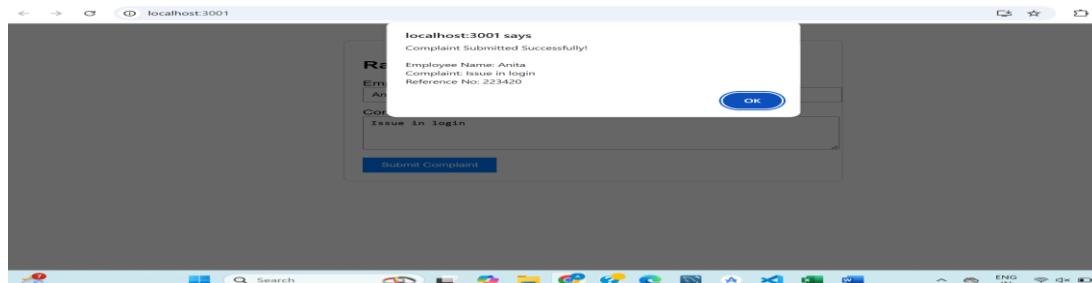
App.js

```

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() {

```

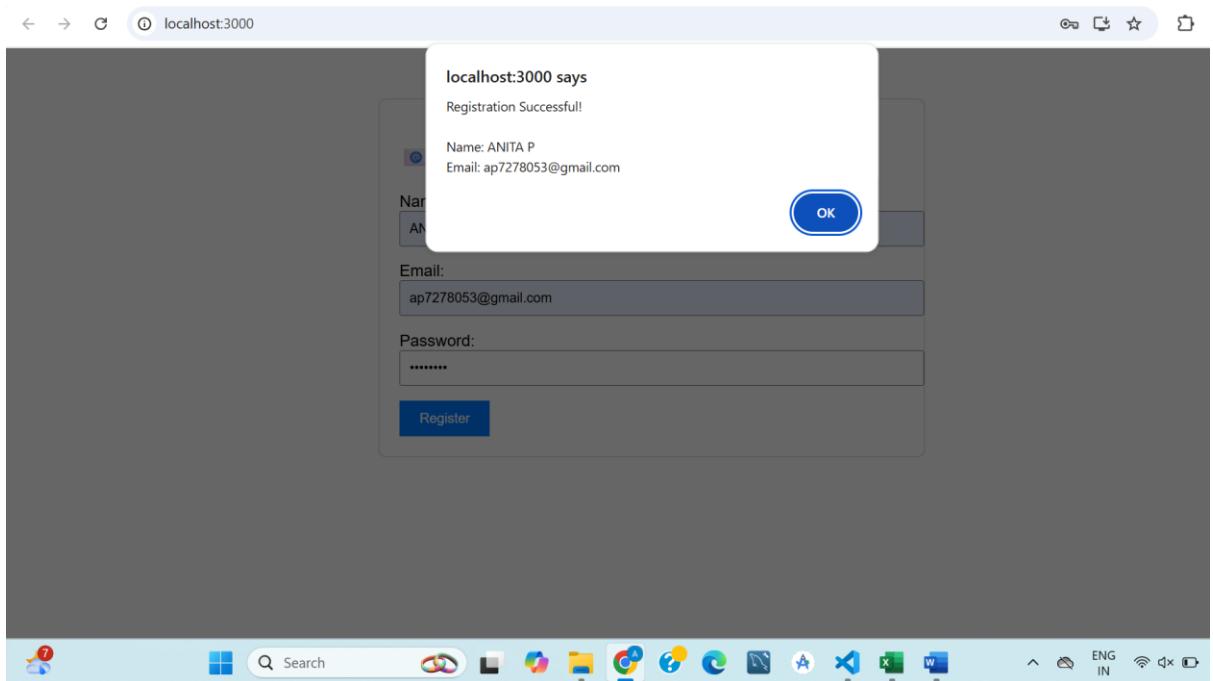
```

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:

