Week7\_React

9.ReactJS\_HOL

App.js  
  
import logo from './logo.svg';

import './App.css';

import ListofPlayers from './components/ListofPlayers';

import IndianPlayers from './components/IndianPlayers';

function App() {

  const flag = true; // Change to false to render IndianPlayers

  return (

    <div style={{ textAlign: "center", padding: "20px" }}>

      <h1>🏏 Welcome to Cricket App</h1>

      {flag ? <ListofPlayers /> : <IndianPlayers />}

    </div>

  );

}

export default App;

components  
  
IndianPlayers.js  
  
import React from "react";

function IndianPlayers() {

  const team = [

    "Virat", "Rohit", "Pant", "Hardik", "Shami", "Bumrah", "Gill", "Jadeja"

  ];

  const oddTeam = team.filter((\_, index) => index % 2 === 0);

  const evenTeam = team.filter((\_, index) => index % 2 !== 0);

  const [T20players, RanjiTrophy] = [

    ["SKY", "Sanju", "Arshdeep"],

    ["Sarfaraz", "Mukesh", "Jurel"]

  ];

  const mergedPlayers = [...T20players, ...RanjiTrophy];

  return (

    <div>

      <h2>Odd Team Players</h2>

      <ul>

        {oddTeam.map((name, index) => (

          <li key={index}>{name}</li>

        ))}

      </ul>

      <h2>Even Team Players</h2>

      <ul>

        {evenTeam.map((name, index) => (

          <li key={index}>{name}</li>

        ))}

      </ul>

      <h2>Merged List of Players (T20 + Ranji Trophy)</h2>

      <ul>

        {mergedPlayers.map((name, index) => (

          <li key={index}>{name}</li>

        ))}

      </ul>

    </div>

  );

}

export default IndianPlayers;

ListOfPlayers.js  
  
import React from "react";

function ListofPlayers() {

  const players = [

    { name: "Virat Kohli", score: 95 },

    { name: "Rohit Sharma", score: 89 },

    { name: "KL Rahul", score: 65 },

    { name: "Shubman Gill", score: 72 },

    { name: "Hardik Pandya", score: 58 },

    { name: "Rishabh Pant", score: 76 },

    { name: "Ravindra Jadeja", score: 45 },

    { name: "Jasprit Bumrah", score: 38 },

    { name: "Shami", score: 50 },

    { name: "Kuldeep Yadav", score: 64 },

    { name: "Suryakumar Yadav", score: 90 },

  ];

  const filteredPlayers = players.filter(player => player.score < 70);

  return (

    <div>

      <h2>All Players</h2>

      <ul>

        {players.map((player, index) => (

          <li key={index}>{player.name} - {player.score}</li>

        ))}

      </ul>

      <h3>Players with Score below 70</h3>

      <ul>

        {filteredPlayers.map((player, index) => (

          <li key={index}>{player.name} - {player.score}</li>

        ))}

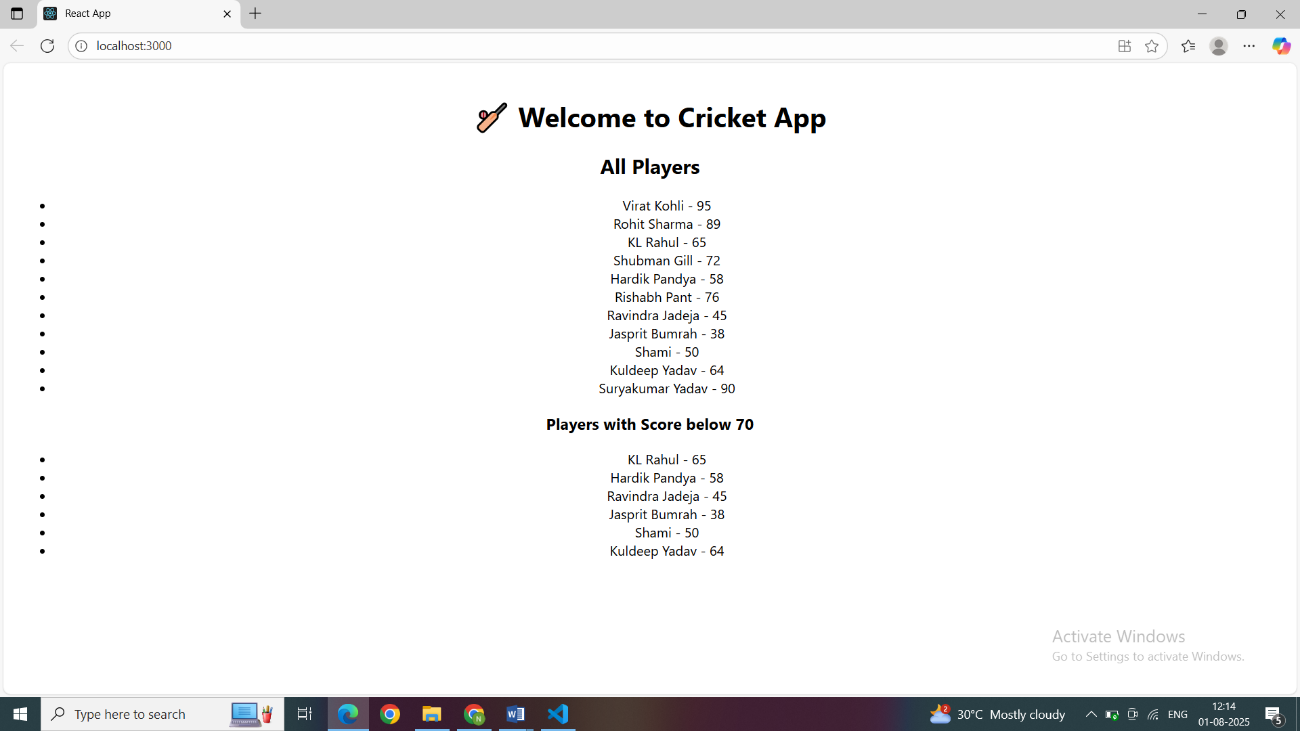
      </ul>

    </div>

  );

}

export default ListofPlayers;

OUTPUT:  
  


10.ReactJS\_HOL  
  
APP.JS  
  
  
import logo from './logo.svg';

import './App.css';

import OfficeList from './components/OfficeList';

function App() {

   return (

    <div className="App">

      <OfficeList />

    </div>

  );

}

export default App;

App.css  
  
  
.App {

  text-align: center;

  padding: 20px;

  font-family: Arial, sans-serif;

}

.office-card {

  border: 1px solid #ccc;

  padding: 16px;

  margin: 16px auto;

  max-width: 400px;

  border-radius: 8px;

  box-shadow: 2px 2px 8px #ccc;

}

components  
  
  
OfficeList.js  
  
  
import React from "react";

//import "./OfficeList.css"; // Optional for separate styling

function OfficeList() {

  const offices = [

    {

      name: "Prestige Tech Park",

      rent: 55000,

      address: "Whitefield, Bangalore",

      image: "img1.jpg"

    },

    {

      name: "WeWork Residency Road",

      rent: 72000,

      address: "Residency Road, Bangalore",

      image: "img2.jpg"

    },

    {

      name: "IndiQube Orion",

      rent: 59000,

      address: "Koramangala, Bangalore",

      image: "img3.jpg"

    },

    {

      name: "CoWrks Ecoworld",

      rent: 80000,

      address: "Bellandur, Bangalore",

      image: "img4.jpg"

    }

  ];

  return (

    <div>

      <h1>🏢 Office Space Rental Listings</h1>

      {offices.map((office, index) => (

        <div key={index} className="office-card">

          <img src={office.image} alt={office.name} width="300" height="150" />

          <h2>{office.name}</h2>

          <p><strong>Address:</strong> {office.address}</p>

          <p>

            <strong>Rent:</strong>{" "}

            <span

              style={{

                color: office.rent < 60000 ? "red" : "green",

                fontWeight: "bold"

              }}

            >

              ₹{office.rent}

            </span>

          </p>

        </div>

      ))}

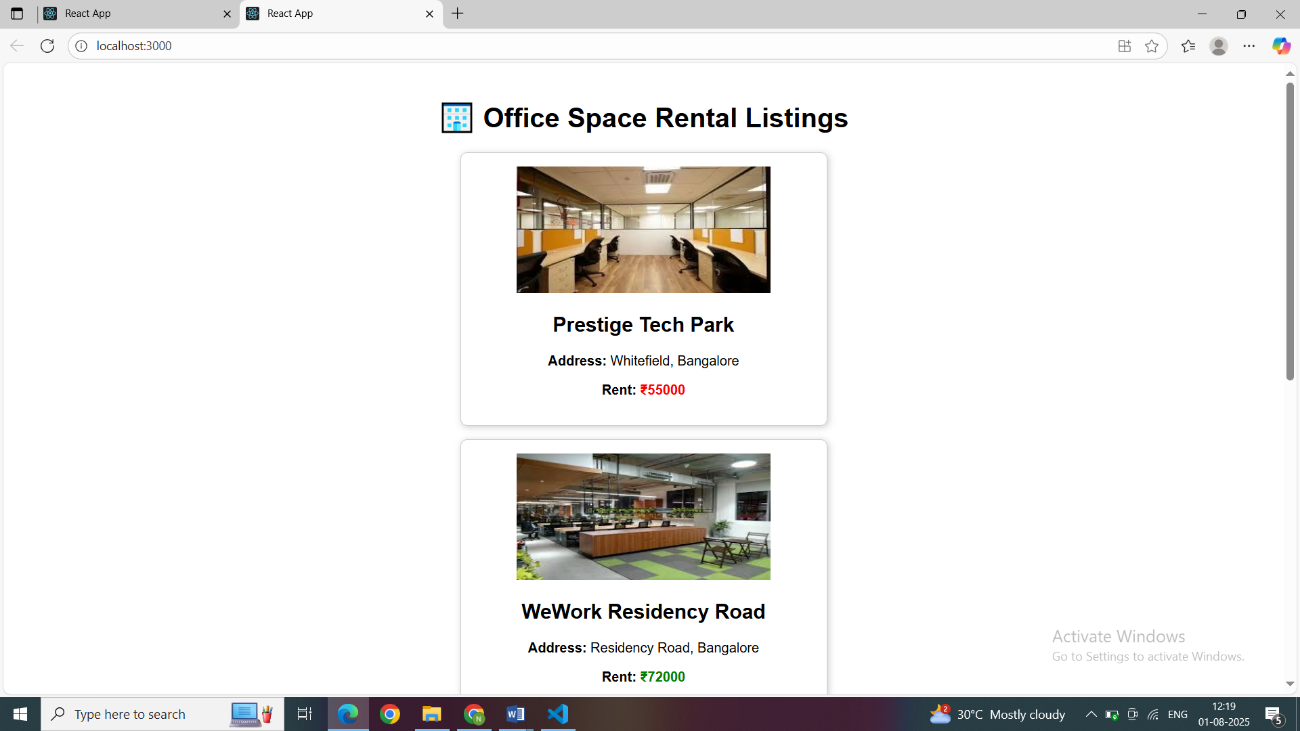
    </div>

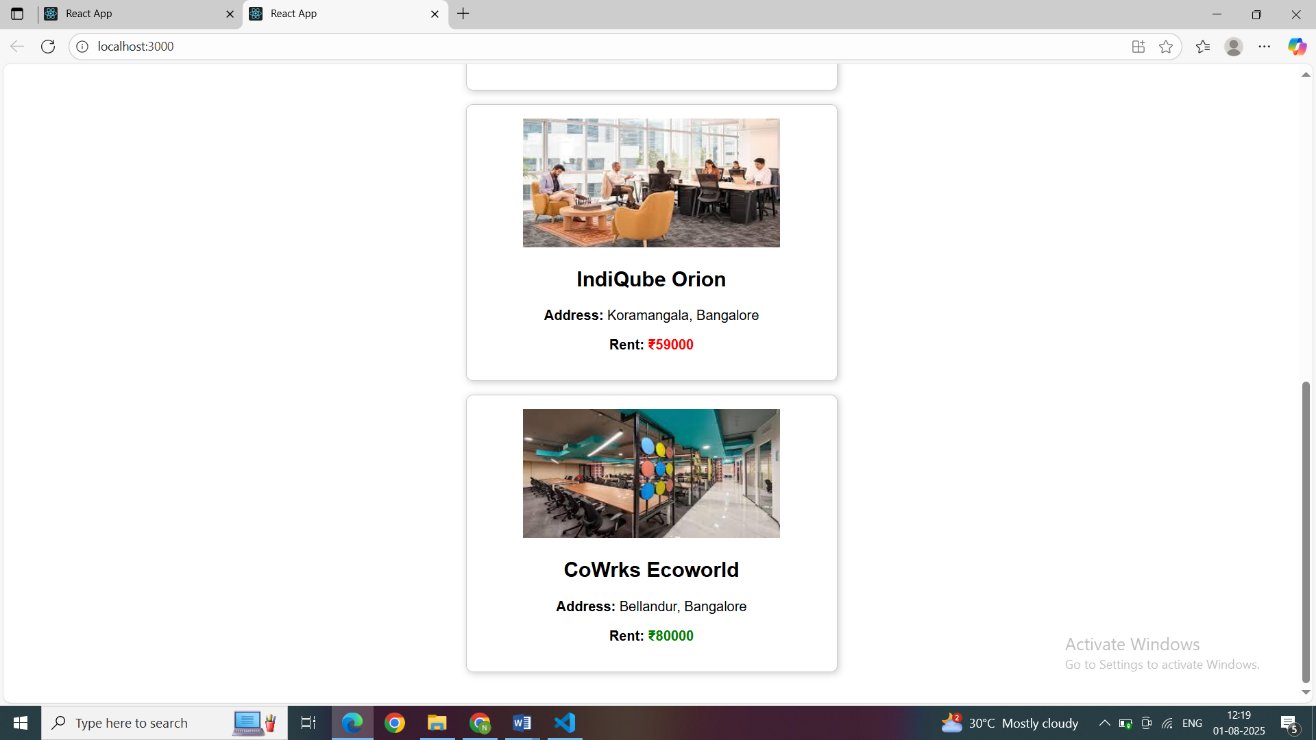
  );

}

export default OfficeList;

OUTPUT:





11.ReactJS\_HOL  
  
App.js  
  
import logo from './logo.svg';

import './App.css';

import React from "react";

import Counter from "./components/Counter";

import SayWelcome from "./components/SayWelcome";

import ClickMessage from "./components/ClickMessage";

import CurrencyConvertor from "./components/CurrencyConvertor";

function App() {

  return (

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

      <h1>🎉 Event Examples App</h1>

      <Counter />

      <SayWelcome />

      <ClickMessage />

      <CurrencyConvertor />

    </div>

  );

}

export default App;

components  
  
ClickMessage.js  
  
  
  
import React from "react";

function ClickMessage() {

  const handleClick = (event) => {

    console.log(event); // React Synthetic Event

    alert("I was clicked!");

  };

  return (

    <div style={{ marginTop: "20px" }}>

      <button onClick={handleClick}>Click Me</button>

    </div>

  );

}

export default ClickMessage;

Counter.js

import React, { useState } from "react";

function Counter() {

  const [count, setCount] = useState(0);

  const sayHello = () => {

    console.log("Hello! Static Message");

  };

  const increment = () => {

    setCount(count + 1);

    sayHello(); // multiple methods on click

  };

  const decrement = () => {

    setCount(count - 1);

  };

  return (

    <div>

      <h2>Counter Value: {count}</h2>

      <button onClick={increment}>Increment</button>{" "}

      <button onClick={decrement}>Decrement</button>

    </div>

  );

}

export default Counter;

CurrencyConvertor.js  
  
  
import React, { useState } from "react";

function CurrencyConvertor() {

  const [rupees, setRupees] = useState("");

  const [euro, setEuro] = useState("");

  const handleSubmit = (e) => {

    e.preventDefault();

    const conversionRate = 0.011; // 1 INR = 0.011 Euro

    const result = parseFloat(rupees) \* conversionRate;

    setEuro(result.toFixed(2));

  };

  return (

    <div style={{ marginTop: "30px" }}>

      <h3>Currency Convertor: INR to Euro</h3>

      <form onSubmit={handleSubmit}>

        <input

          type="number"

          value={rupees}

          placeholder="Enter amount in INR"

          onChange={(e) => setRupees(e.target.value)}

        />

        <button type="submit">Convert</button>

      </form>

      {euro && <p>Converted Amount: € {euro}</p>}

    </div>

  );

}

export default CurrencyConvertor;

SayWelcome.js  
  
  
import React from "react";

function SayWelcome() {

  const greet = (message) => {

    alert(message);

  };

  return (

    <div style={{ marginTop: "20px" }}>

      <button onClick={() => greet("Welcome to the Event Example App!")}>

        Say Welcome

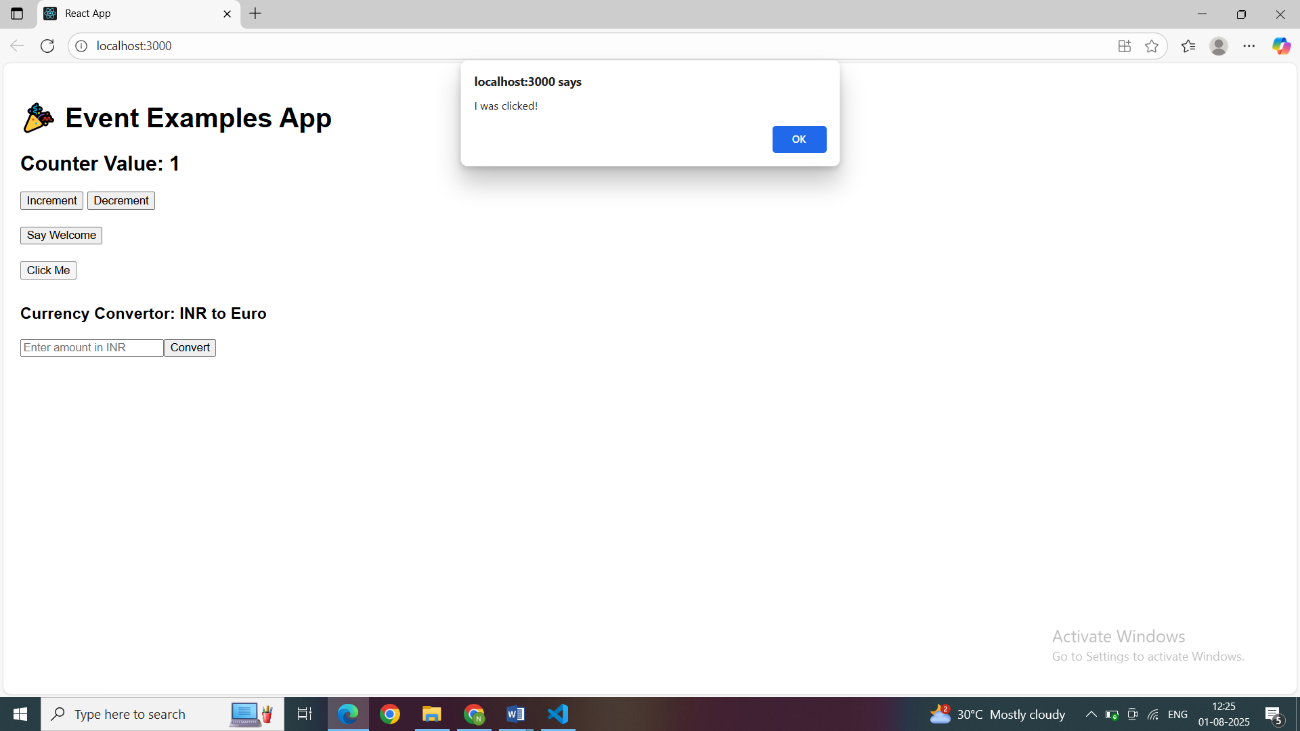
      </button>

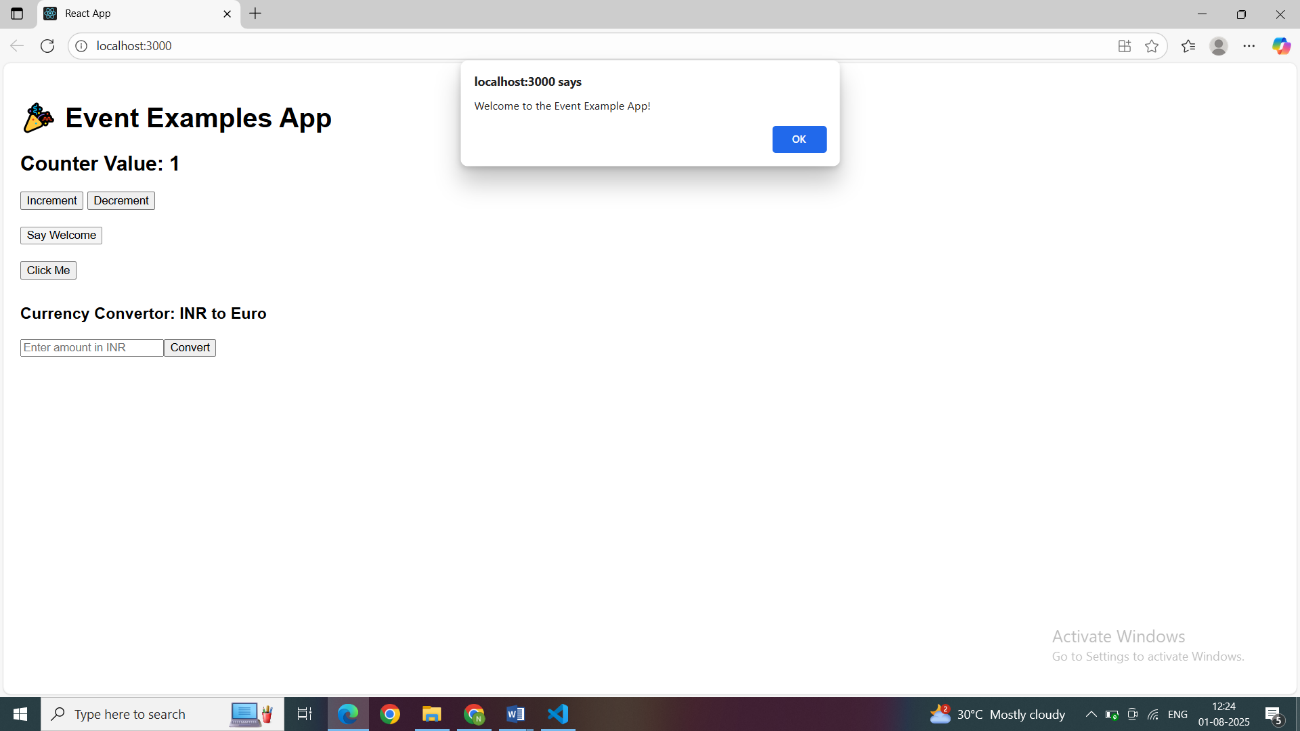
    </div>

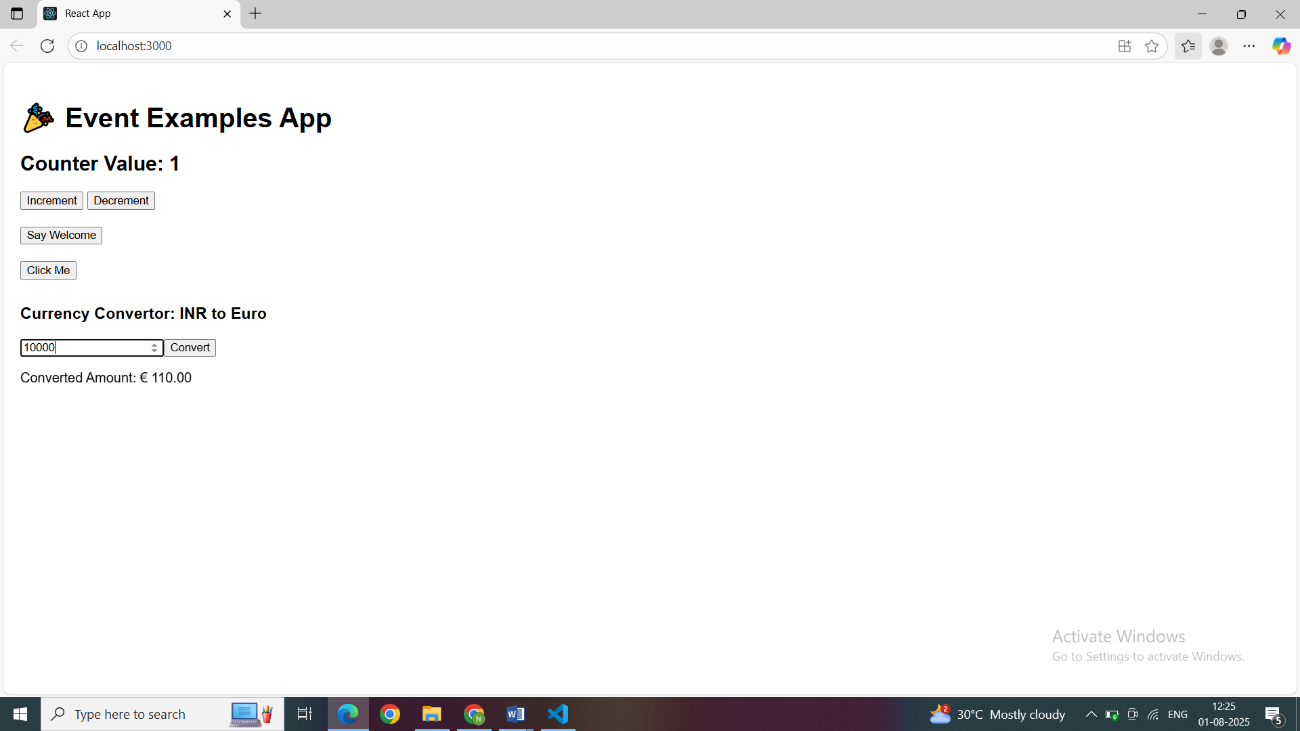
  );

}

export default SayWelcome;

OUTPUT:  




  
  
12.ReactJS\_HOL  
  
App.js  
  
import React, { useState } from "react";

import Greeting from "./components/Greeting";

import LoginButton from "./components/LoginButton";

import LogoutButton from "./components/LogOutButton";

import FlightList from "./components/FlightList";

function App() {

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

  const handleLoginClick = () => setIsLoggedIn(true);

  const handleLogoutClick = () => setIsLoggedIn(false);

  return (

    <div style={{ padding: "20px" }}>

      <h1>✈️ Ticket Booking App</h1>

      <Greeting isLoggedIn={isLoggedIn} />

      {isLoggedIn ? (

        <>

          <LogoutButton onClick={handleLogoutClick} />

          <FlightList allowBooking={true} />

        </>

      ) : (

        <>

          <LoginButton onClick={handleLoginClick} />

          <FlightList allowBooking={false} />

        </>

      )}

    </div>

  );

}

export default App;

components  
  
FlightList.js  
import React from "react";

const flights = [

  { id: 1, from: "New York", to: "London", time: "10:00 AM" },

  { id: 2, from: "Paris", to: "Tokyo", time: "12:30 PM" },

  { id: 3, from: "Delhi", to: "Dubai", time: "5:45 PM" }

];

function FlightList({ allowBooking }) {

  return (

    <div>

      <h3>Available Flights:</h3>

      <ul>

        {flights.map(flight => (

          <li key={flight.id}>

            {flight.from} ➡ {flight.to} at {flight.time}

            {allowBooking && (

              <button style={{ marginLeft: "10px" }}>Book</button>

            )}

          </li>

        ))}

      </ul>

    </div>

  );

}

export default FlightList;

Greeting.js  
  
import React from "react";

import UserGreeting from "./UserGreeting";

import GuestGreeting from "./GuestGreeting";

function Greeting(props) {

  const isLoggedIn = props.isLoggedIn;

  return isLoggedIn ? <UserGreeting /> : <GuestGreeting />;

}

export default Greeting;

GuestGreeting.js  
import React from "react";

function GuestGreeting() {

  return <h2>Hello, Guest! Please log in to book your flight.</h2>;

}

export default GuestGreeting;

LoginButton.js  
import React from "react";

function LoginButton(props) {

  return (

    <button onClick={props.onClick}>

      Login

    </button>

  );

}

export default LoginButton;

LogOutButton.js  
  
import React from "react";

function LogoutButton(props) {

  return (

    <button onClick={props.onClick}>

      Logout

    </button>

  );

}

export default LogoutButton;

UserGreeting.js  
import React from "react";

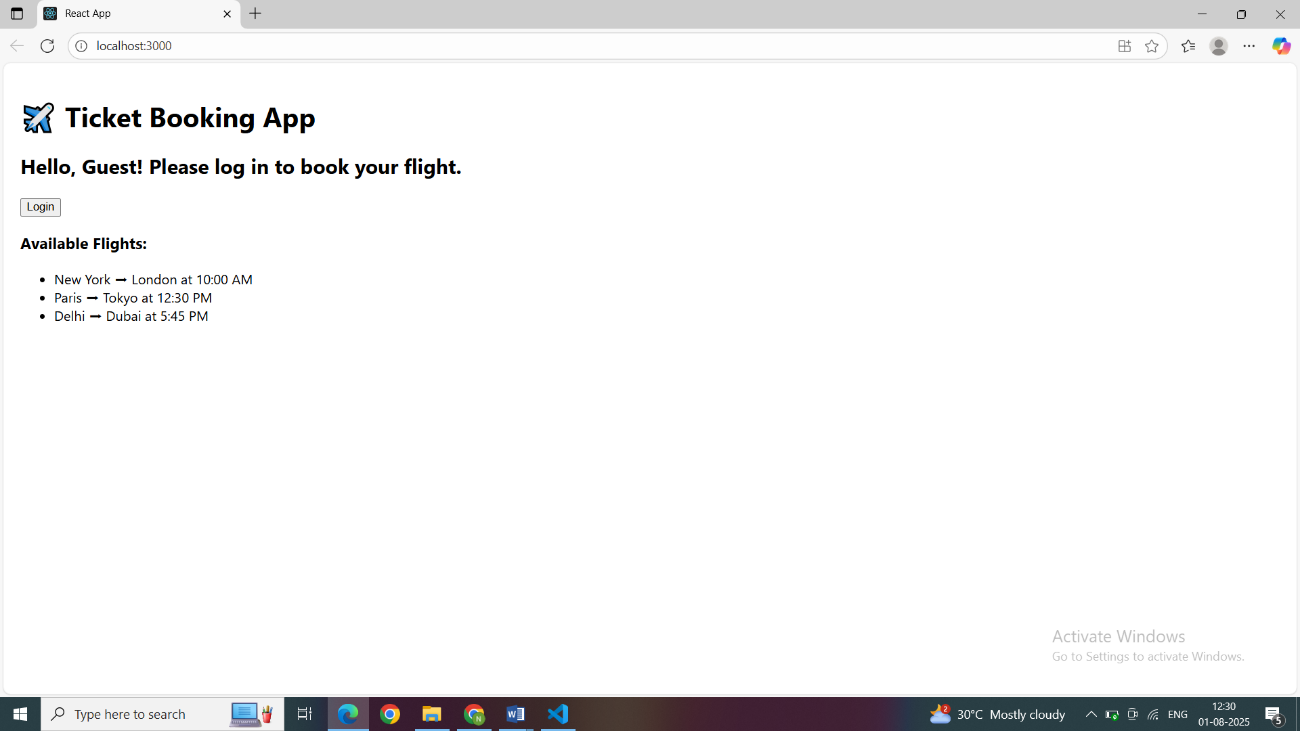
function UserGreeting() {

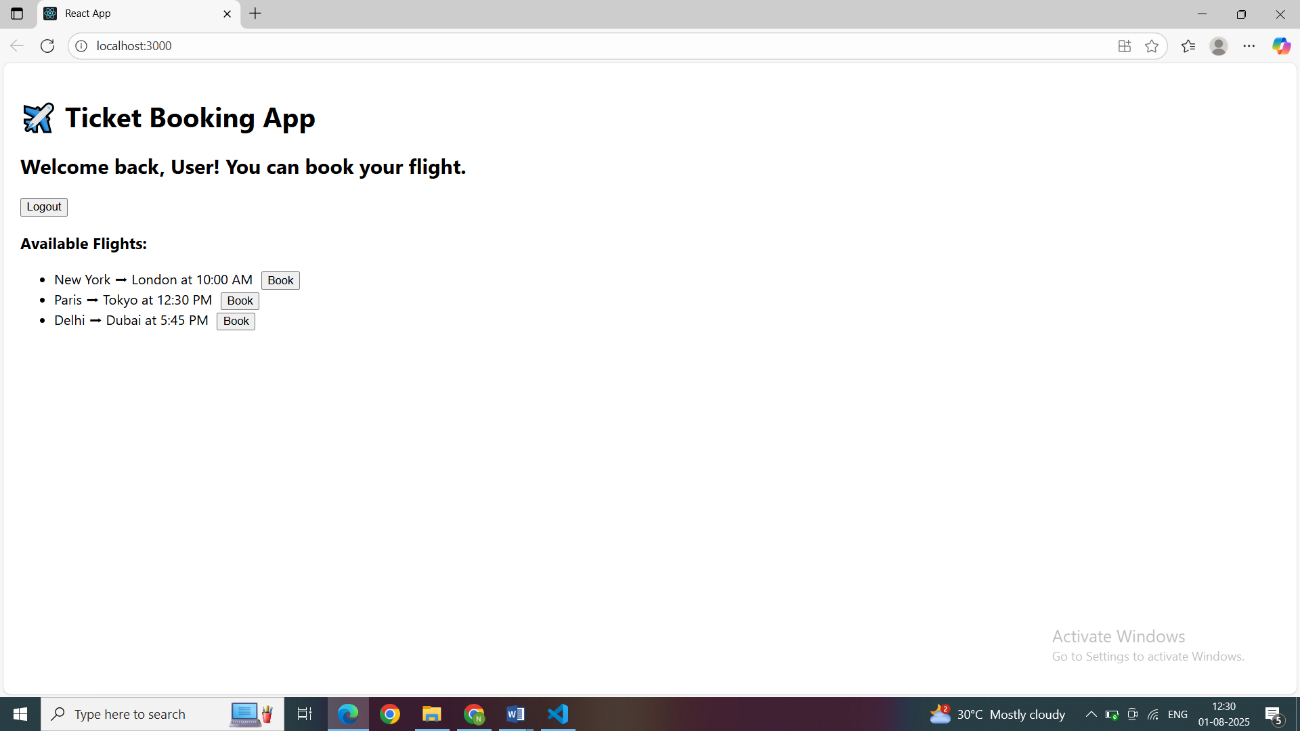
  return <h2>Welcome back, User! You can book your flight.</h2>;

}

export default UserGreeting;

OUTPUT:



  
13.ReactJS\_HOL  
  
App.js  
  
  
import React, { useState } from "react";

import BookDetails from "./components/BookDetails";

import BlogDetails from "./components/BlogDetails";

import CourseDetails from "./components/CourseDetails";

import { books } from "./data/book";

function App() {

  const [showBooks, setShowBooks] = useState(true);

  const [showBlog, setShowBlog] = useState(false);

  const [showCourses, setShowCourses] = useState(true);

  const courses = ["React", "NodeJS", "MongoDB"];

  return (

    <div style={{ padding: "20px" }}>

      <h1>Blogger App</h1>

      {/\* Toggle buttons \*/}

      <button onClick={() => setShowBooks((prev) => !prev)}>

        Toggle Book Details

      </button>

      <button onClick={() => setShowBlog((prev) => !prev)}>

        Toggle Blog Details

      </button>

      <button onClick={() => setShowCourses((prev) => !prev)}>

        Toggle Course Details

      </button>

      <hr />

      {/\* Conditional Rendering Methods \*/}

      {showBooks && <BookDetails books={books} />}                    {/\* if \*/}

      <BlogDetails show={showBlog} />                                  {/\* short-circuit return \*/}

      {showCourses ? <CourseDetails courses={courses} /> : null}       {/\* ternary \*/}

    </div>

  );

}

export default App;

components  
  
BlogDetails.js  
  
import React from "react";

function BlogDetails({ show }) {

  if (!show) return null;

  return (

    <div>

      <h2>Blog Details</h2>

      <p>This blog explains React Conditional Rendering using real-world examples.</p>

    </div>

  );

}

export default BlogDetails;

BookDetails.js  
import React from "react";

function BookDetails({ books }) {

  return (

    <div>

      <h2>Book Details</h2>

      <ul>

        {books.map((book) => (

          <li key={book.id}>

            <h3>{book.bname}</h3>

            <h4>Price: ₹{book.price}</h4>

          </li>

        ))}

      </ul>

    </div>

  );

}

export default BookDetails;

CourseDetails.js  
  
import React from "react";

function CourseDetails({ courses }) {

  return (

    <div>

      <h2>Course Details</h2>

      {courses.length === 0 ? (

        <p>No courses available.</p>

      ) : (

        <ul>

          {courses.map((course, index) => (

            <li key={index}>{course}</li>

          ))}

        </ul>

      )}

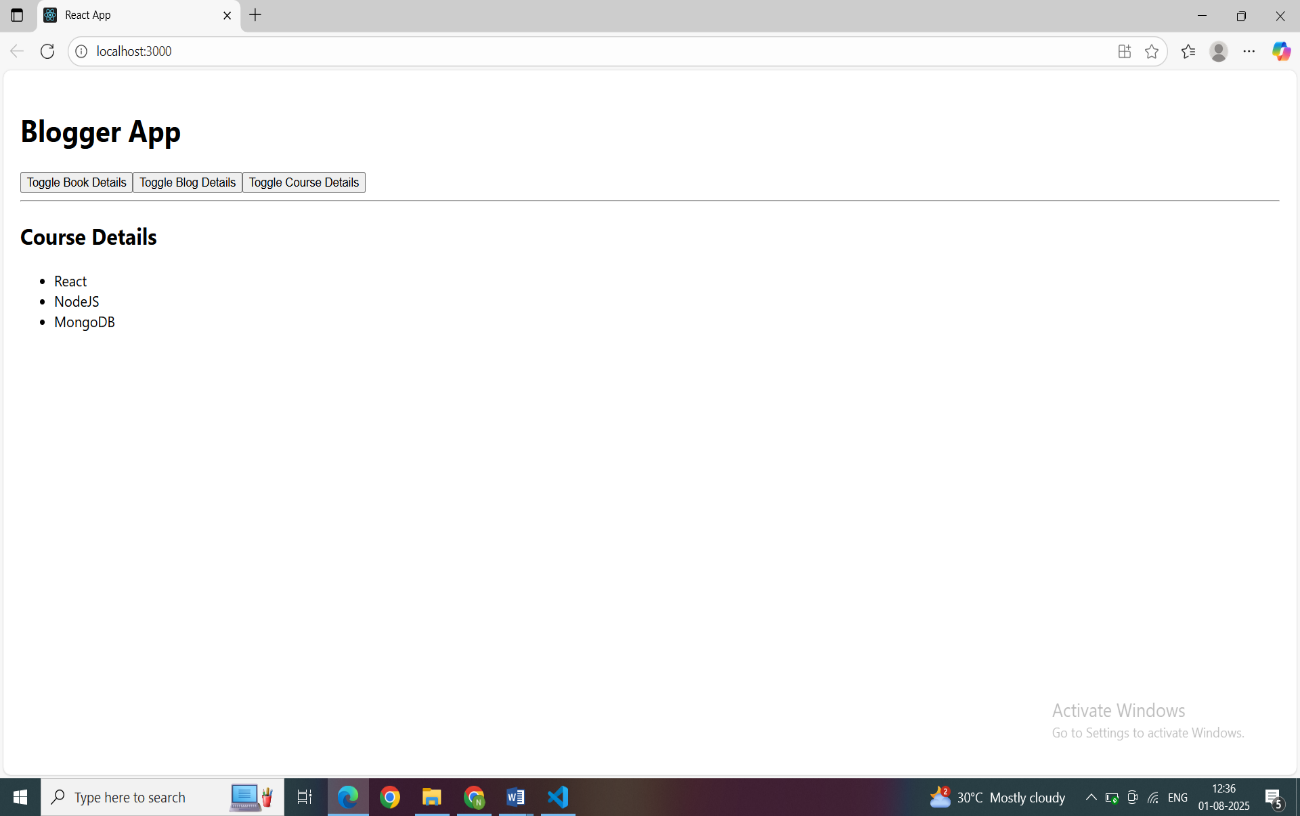
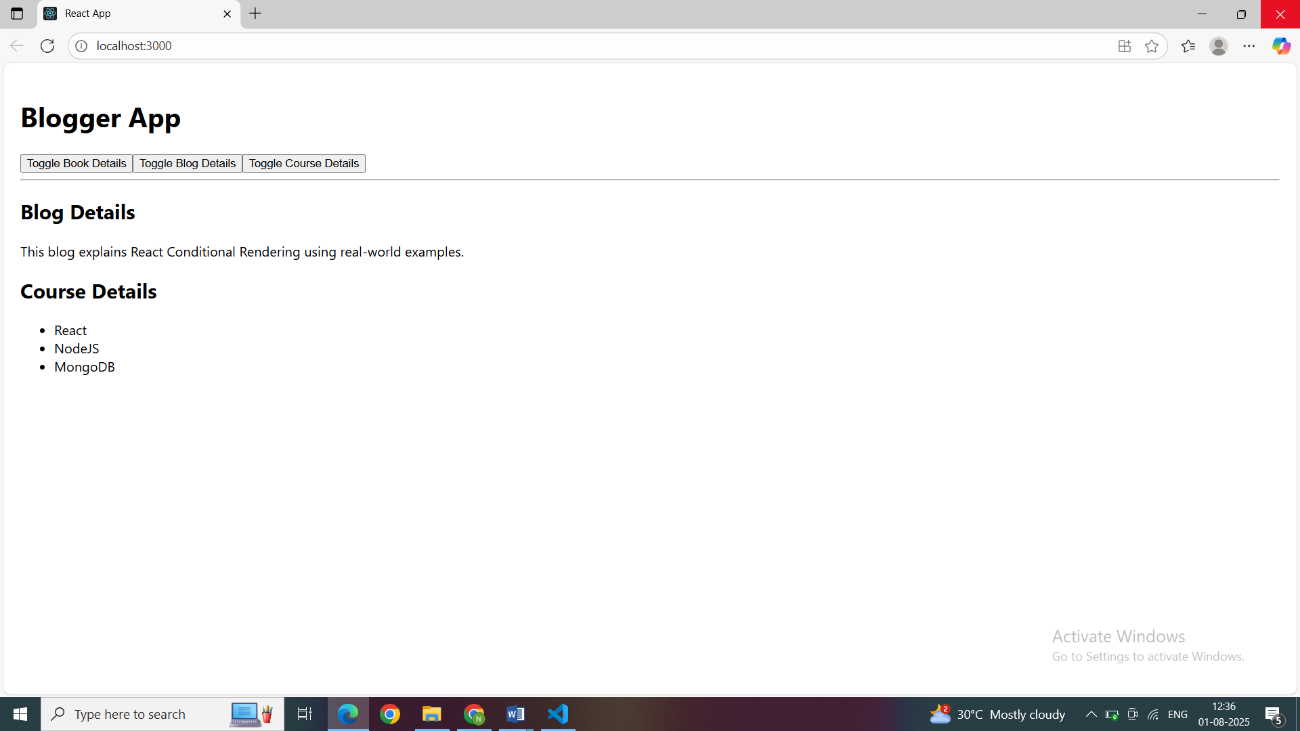
    </div>

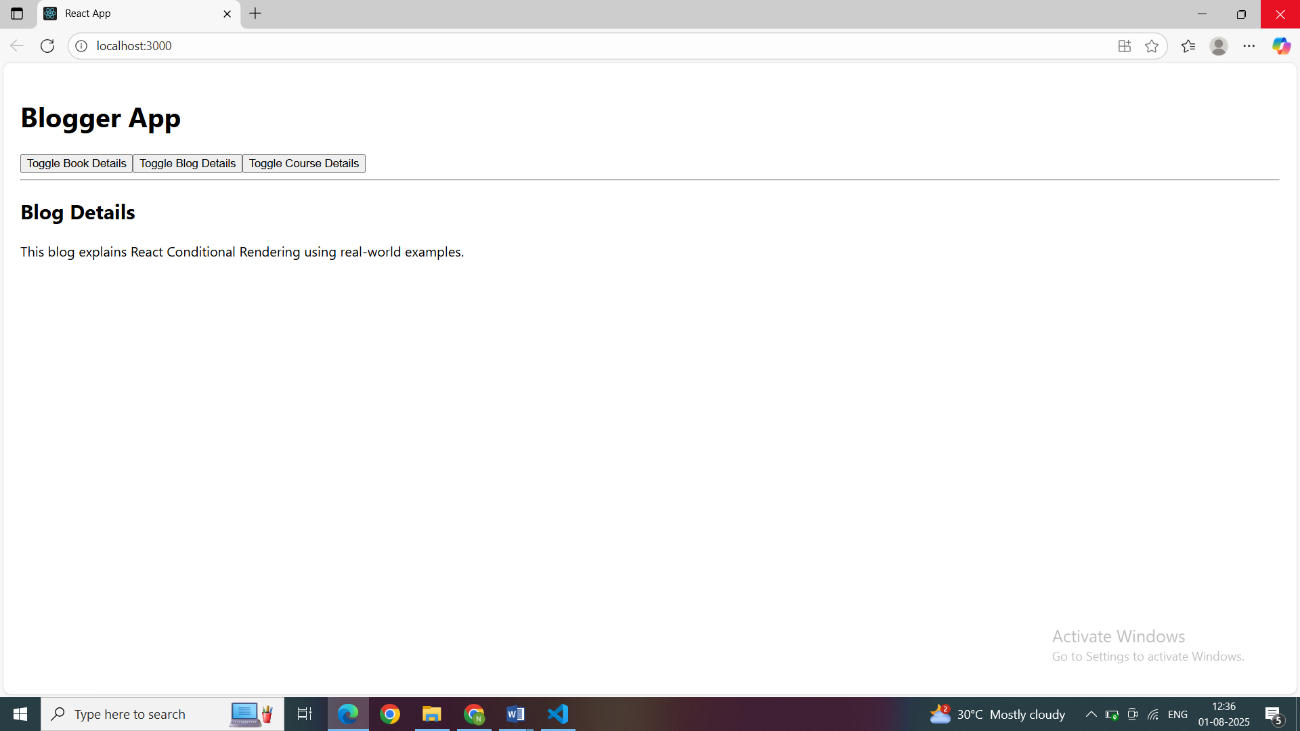
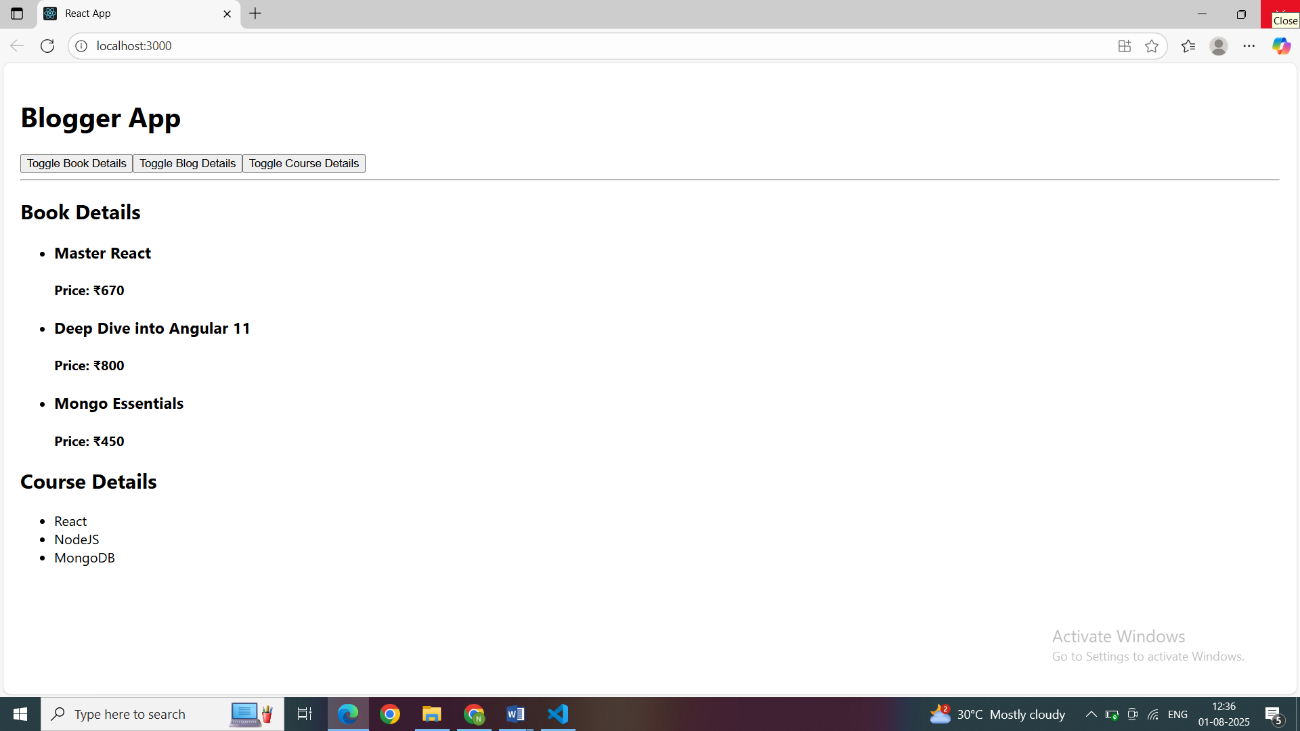
  );

}

export default CourseDetails;

OUTPUT:





14.ReactJS\_HOL  
  
App.js  
  
import logo from './logo.svg';

import './App.css';

import ThemeContext from './ThemeContext';

import { EmployeesData } from './Employee';

import EmployeesList from './EmployeesList';

import { useState } from 'react';

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)} value={theme}>

          <option value='light'>Light</option>

          <option value='dark'>Dark</option>

        </select>

      </div>

      {/\* Removed theme prop \*/}

      <EmployeesList employees={Employees} />

    </ThemeContext.Provider>

  );

}

export default App;

Employee.js  
  
class Employee {

    constructor(id, name, email, phone){

        this.id=id;

        this.name=name;

        this.email=email;

        this.phone=phone;

    }

}

const EmployeesData=[

    new Employee(101,'Jojo','jojo@congizant.com','98238971234'),

    new Employee(102,'Sam','sam@congizant.com', '9981184126'),

    new Employee(103,'Elisa','elisa@cognizant.com','9989389735')

];

export default Employee;

export {EmployeesData};

EmployeeCard.js  
  
import React, { useContext } from 'react';

import ThemeContext from './ThemeContext';

function EmployeeCard({ employee }) {

    const theme = useContext(ThemeContext); // a & b

    return (

        <div className={`employee-card ${theme}`}>

            <h3>{employee.name}</h3>

            <p>{employee.position}</p>

            <button className={`btn ${theme}`}>View Profile</button> {/\* c \*/}

        </div>

    );

}

export default EmployeeCard;

EmployeeList.js  
  
import EmployeeCard from './EmployeeCard';

function EmployeesList(props) {

    return (

        <div>

            <h1>Employees List</h1>

            {props.employees.map(employee =>

                <EmployeeCard employee={employee} key={employee.id} />

            )}

        </div>

    );

}

export default EmployeesList;

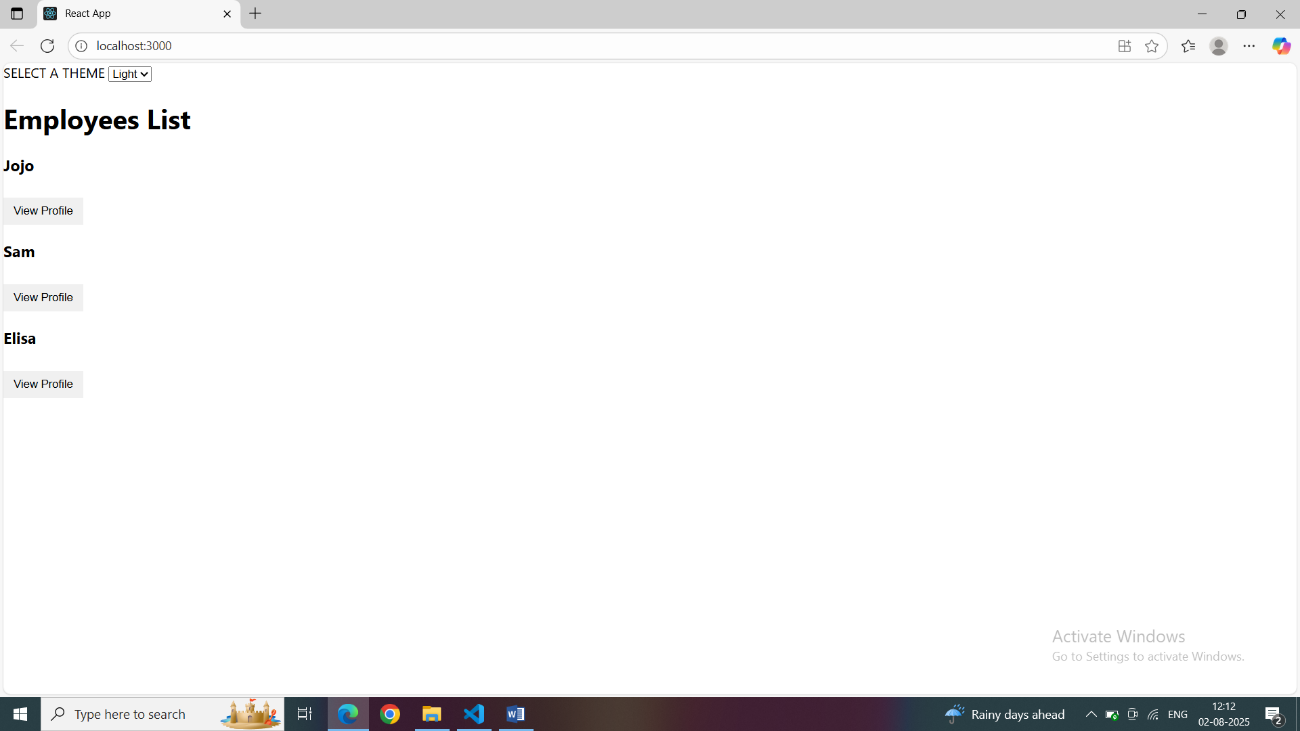
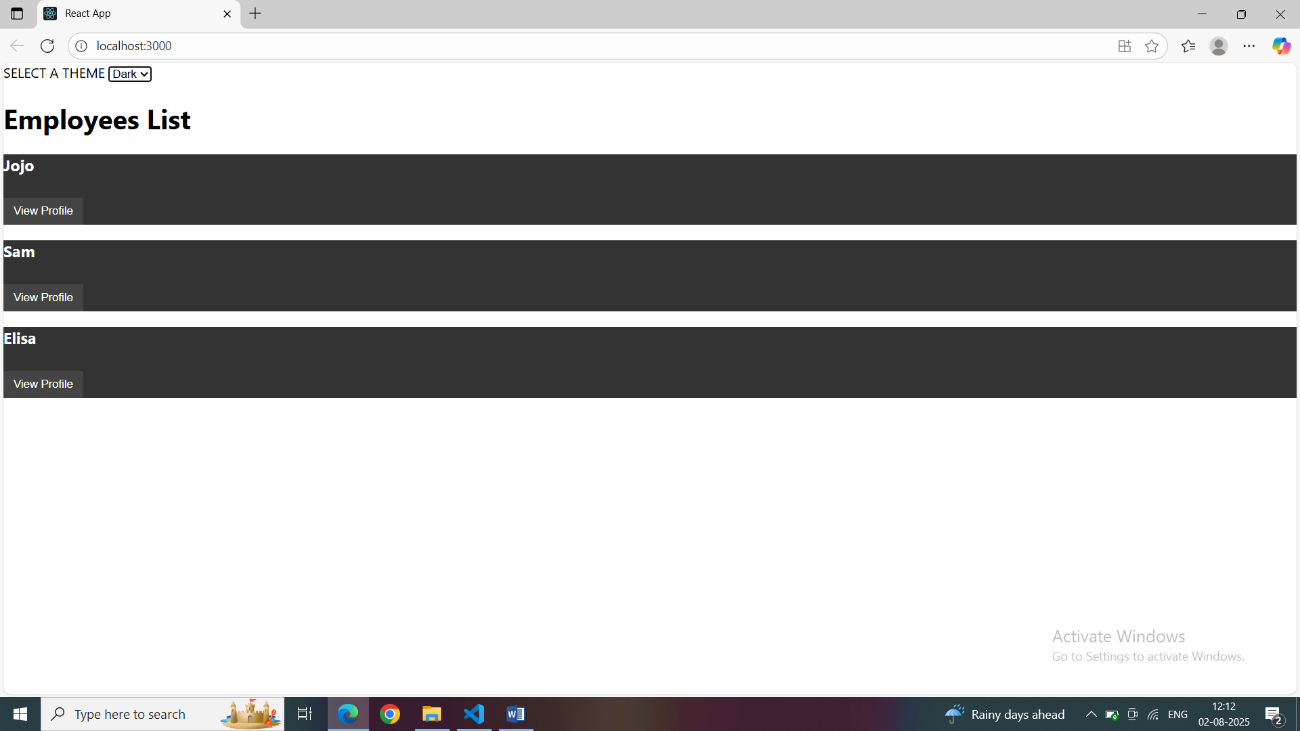
ThemeContext.js  
import { createContext } from 'react';

// Create a context with default value 'light'

const ThemeContext = createContext('light');

// Export it as default

export default ThemeContext;

OUTPUT:  
  
  
  
  
  
15.ReactJS\_HOL

App.js  
  
import React from "react";

import ComplaintRegister from "./ComplaintRegister";

function App() {

  return (

    <div>

      <ComplaintRegister />

    </div>

  );

}

export default App;

ComplaintRegister.js  
  
import React from "react";

class ComplaintRegister extends React.Component {

  constructor(props) {

    super(props);

    this.state = {

      ename: "",

      complaint: "",

      NumberHolder: Math.floor(Math.random() \* 100) + 1,

    };

    this.handleChange = this.handleChange.bind(this);

    this.handleSubmit = this.handleSubmit.bind(this);

  }

  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 style={{ textAlign: "center", marginTop: "50px" }}>

        <h2 style={{ color: "red" }}>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>

          <br />

          <div>

            <label>Complaint: </label>

            <textarea

              name="complaint"

              value={this.state.complaint}

              onChange={this.handleChange}

              required

            />

          </div>

          <br />

          <button type="submit">Submit</button>

        </form>

      </div>

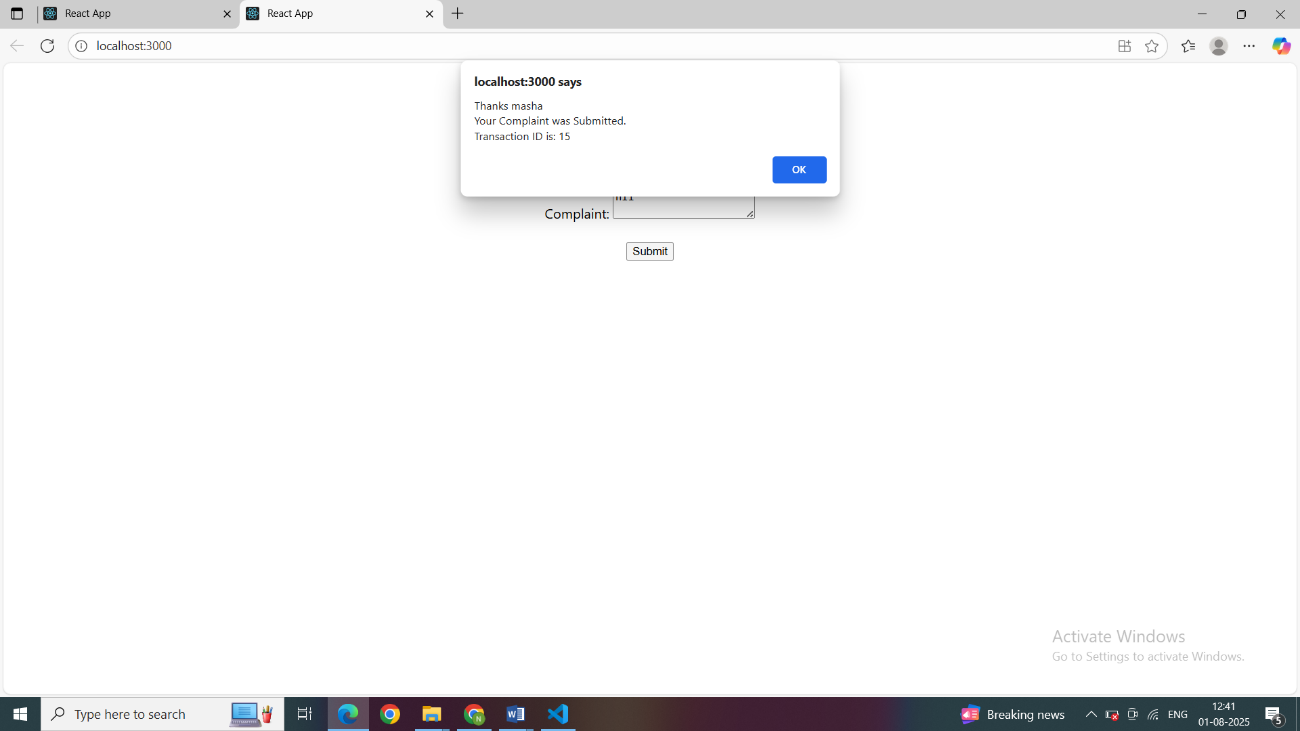
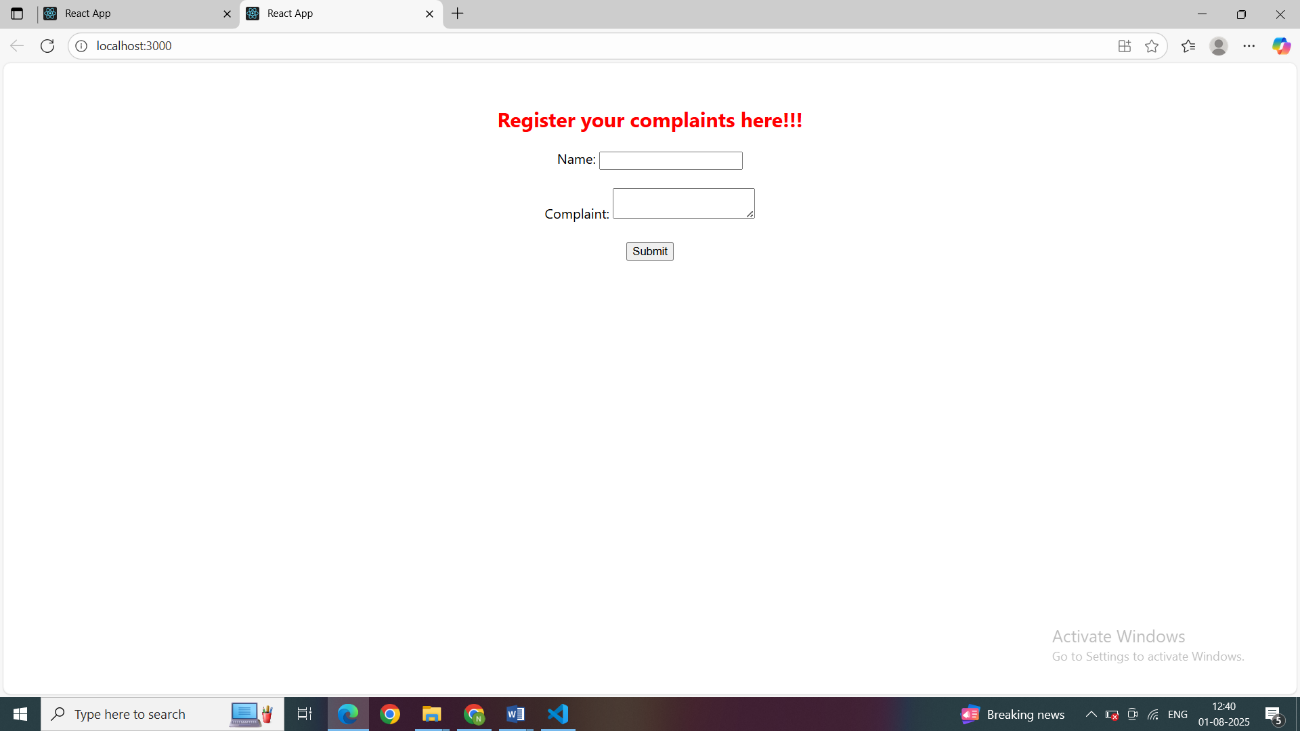
    );

  }

}

export default ComplaintRegister;

OUTPUT:



16.ReactJS\_HOL  
  
  
App.js  
  
// src/App.js

import React from "react";

import Register from "./register";

function App() {

  return (

    <div>

      <Register />

    </div>

  );

}

export default App;

register.js  
// src/register.js

import React, { Component } from "react";

import "./register.css";

class Register extends Component {

  constructor(props) {

    super(props);

    this.state = {

      fullName: "",

      email: "",

      password: "",

      errors: {

        fullName: "",

        email: "",

        password: "",

      },

    };

  }

  validateForm = (errors) => {

    return Object.values(errors).every((val) => val === "");

  };

  handleChange = (event) => {

    const { name, value } = event.target;

    let errors = this.state.errors;

    switch (name) {

      case "fullName":

        errors.fullName =

          value.length < 5 ? "Full Name must be 5 characters long!" : "";

        break;

      case "email":

        const validEmailRegex = RegExp(

          /^[^\s@]+@[^\s@]+\.[^\s@]+$/

        );

        errors.email = validEmailRegex.test(value)

          ? ""

          : "Email is not valid!";

        break;

      case "password":

        errors.password =

          value.length < 8 ? "Password must be 8 characters long!" : "";

        break;

      default:

        break;

    }

    this.setState({ errors, [name]: value });

  };

  handleSubmit = (event) => {

    event.preventDefault();

    if (this.validateForm(this.state.errors)) {

      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="form-container">

        <h2>Register Here!!!</h2>

        <form onSubmit={this.handleSubmit}>

          <div>

            <label>Name: </label>

            <input

              type="text"

              name="fullName"

              onChange={this.handleChange}

              noValidate

            />

          </div>

          <div>

            <label>Email: </label>

            <input

              type="text"

              name="email"

              onChange={this.handleChange}

              noValidate

            />

          </div>

          <div>

            <label>Password: </label>

            <input

              type="password"

              name="password"

              onChange={this.handleChange}

              noValidate

            />

          </div>

          <div>

            <button type="submit">Submit</button>

          </div>

        </form>

      </div>

    );

  }

}

export default Register;

register.css  
  
/\* src/register.css \*/

.form-container {

  margin: 50px;

  font-family: Arial, sans-serif;

}

h2 {

  color: red;

  font-size: 30px;

}

input {

  margin: 5px;

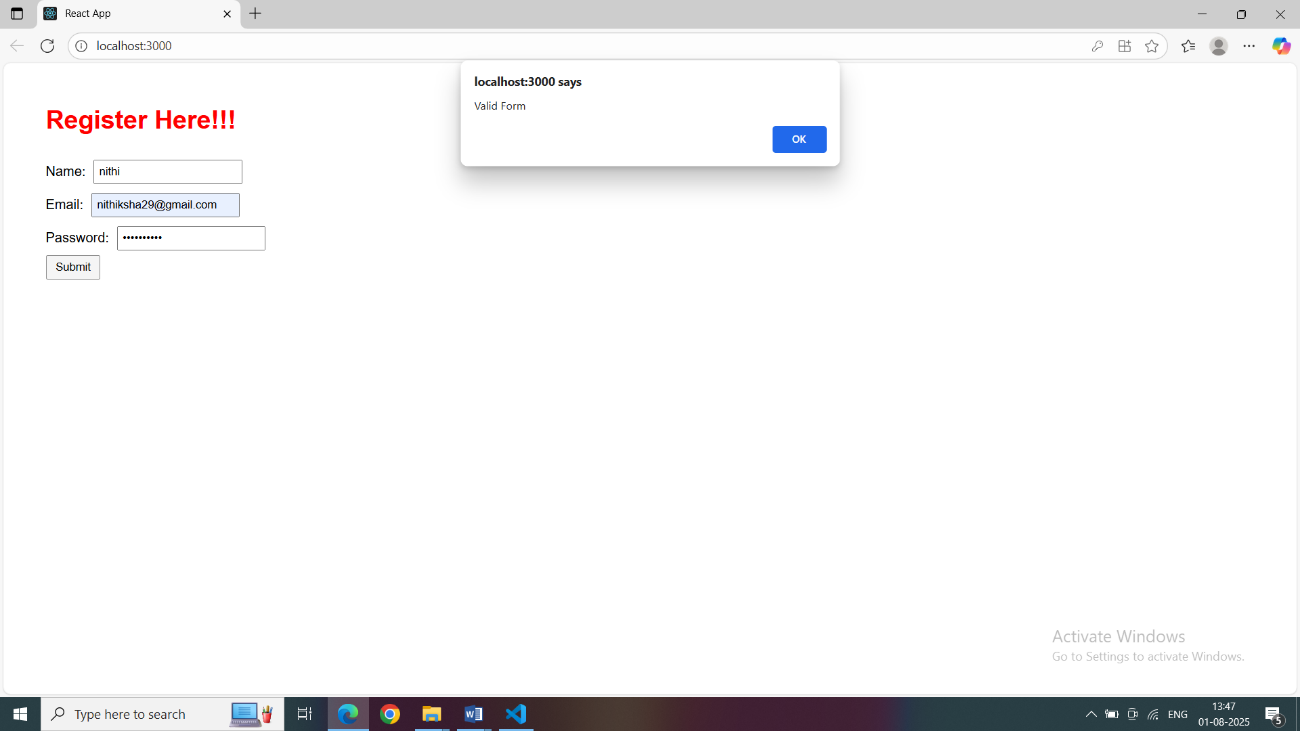
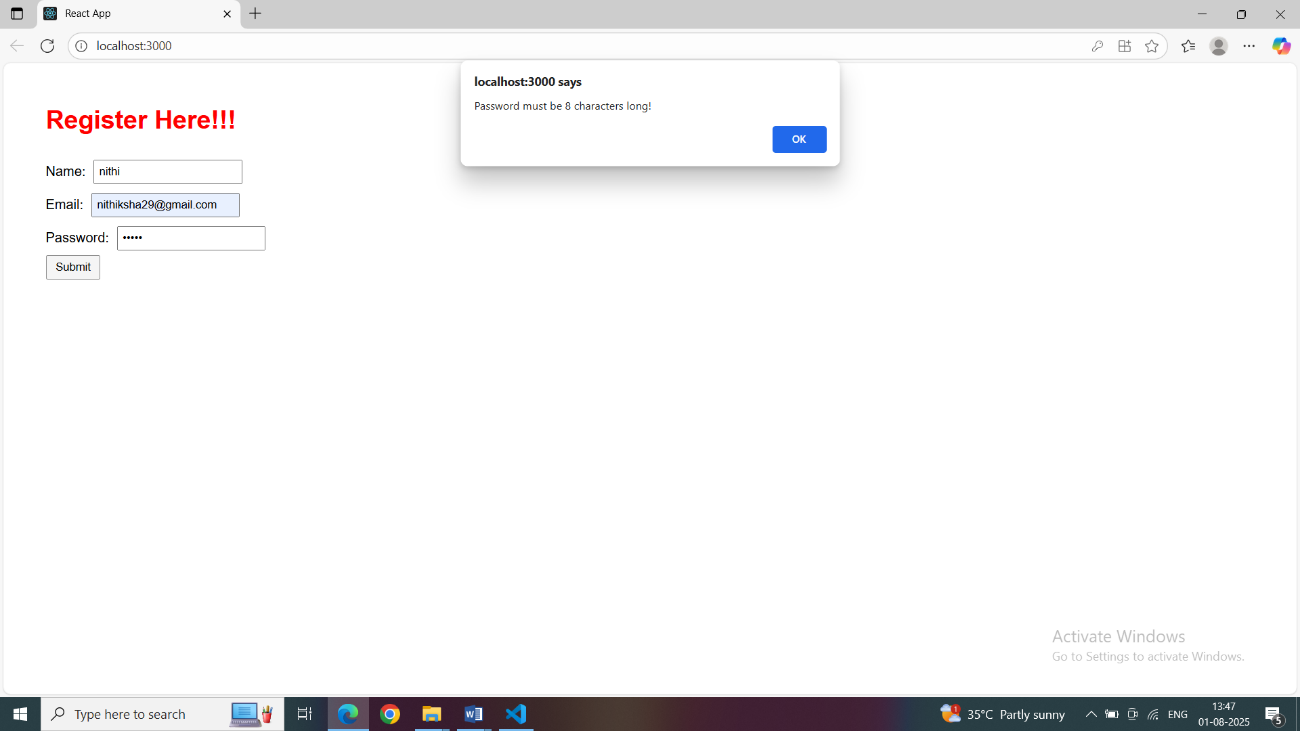
  padding: 5px;

}

button {

  padding: 5px 10px;

}

OUTPUT:  
  
  


17.React17\_HOL  
  
App.js  
  
import React from 'react';

import Getuser from './GetUser';

function App() {

  return (

    <div className="App">

      <h1>Random User Info</h1>

      <Getuser />

    </div>

  );

}

export default App;

GetUser.js  
  
import React, { Component } from 'react';

class Getuser extends Component {

  constructor(props) {

    super(props);

    this.state = {

      person: null,

      loading: true

    };

  }

  async componentDidMount() {

    const url = "https://api.randomuser.me/";

    const response = await fetch(url);

    const data = await response.json();

    this.setState({ person: data.results[0], loading: false });

    console.log(data.results[0]);

  }

  render() {

    const { person, loading } = this.state;

    if (loading) {

      return <div>Loading...</div>;

    }

    return (

      <div>

        <h2>User Details</h2>

        <p>Title: {person.name.title}</p>

        <p>First Name: {person.name.first}</p>

        <img src={person.picture.large} alt="User" />

      </div>

    );

  }

}

export default Getuser;

OUTPUT:  
  
