**Exercise 1:Cricketapp**

**Code:**

**File:App.js**

import React, { useState } from "react";

import ListofPlayers from "./components/ListofPlayers";

import IndianPlayers from "./components/IndianPlayers";

function App*()* {

  const [flag, setFlag] = useState(true); // toggle between components

  return (

    <div className="App">

      <h1>Welcome to Cricket App</h1>

      <button onClick={*()* => setFlag(!flag)}>

        Show {flag ? "Indian Players" : "List of Players"}

      </button>

      <hr />

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

    </div>

  );

}

export default App;

**File:ListofPlayers.js**

import React from "react";

const ListofPlayers = *()* => {

  const players = [

    { name: "Virat Kohli", score: 85 },

    { name: "Rohit Sharma", score: 95 },

    { name: "Hardik Pandya", score: 68 },

    { name: "Shubman Gill", score: 74 },

    { name: "KL Rahul", score: 55 },

    { name: "Ravindra Jadeja", score: 90 },

    { name: "Jasprit Bumrah", score: 45 },

    { name: "Suryakumar Yadav", score: 77 },

    { name: "Mohammed Siraj", score: 64 },

    { name: "Shreyas Iyer", score: 81 },

    { name: "Rishabh Pant", score: 59 },

  ];

  const lowScorers = 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>

      <h2>Players with Score below 70:</h2>

      <ul>

        {lowScorers.map(*(player, index)* => (

          <li key={index}>

            {player.name} - {player.score}

          </li>

        ))}

      </ul>

    </div>

  );

};

export default ListofPlayers;

**File:IndianPlayers.js**

import React from "react";

const IndianPlayers = *()* => {

  const oddTeam = ["Virat", "Hardik", "KL Rahul", "Bumrah", "Siraj"];

  const evenTeam = ["Rohit", "Gill", "Jadeja", "SKY", "Iyer", "Pant"];

  // Destructuring Odd Team

  const [odd1, odd2, ...oddRest] = oddTeam;

  const [even1, even2, ...evenRest] = evenTeam;

  const T20players = ["Kohli", "Rohit", "SKY", "Bumrah"];

  const RanjiTrophyPlayers = ["Pujara", "Rahane", "Unadkat"];

  const allPlayers = [...T20players, ...RanjiTrophyPlayers]; // ES6 merge

  return (

    <div>

      <h2>Odd Team Players:</h2>

      <ul>

        <li>{odd1}</li>

        <li>{odd2}</li>

        {oddRest.map(*(player, index)* => (

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

        ))}

      </ul>

      <h2>Even Team Players:</h2>

      <ul>

        <li>{even1}</li>

        <li>{even2}</li>

        {evenRest.map(*(player, index)* => (

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

        ))}

      </ul>

      <h2>All Players (T20 + Ranji Trophy):</h2>

      <ul>

        {allPlayers.map(*(player, index)* => (

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

        ))}

      </ul>

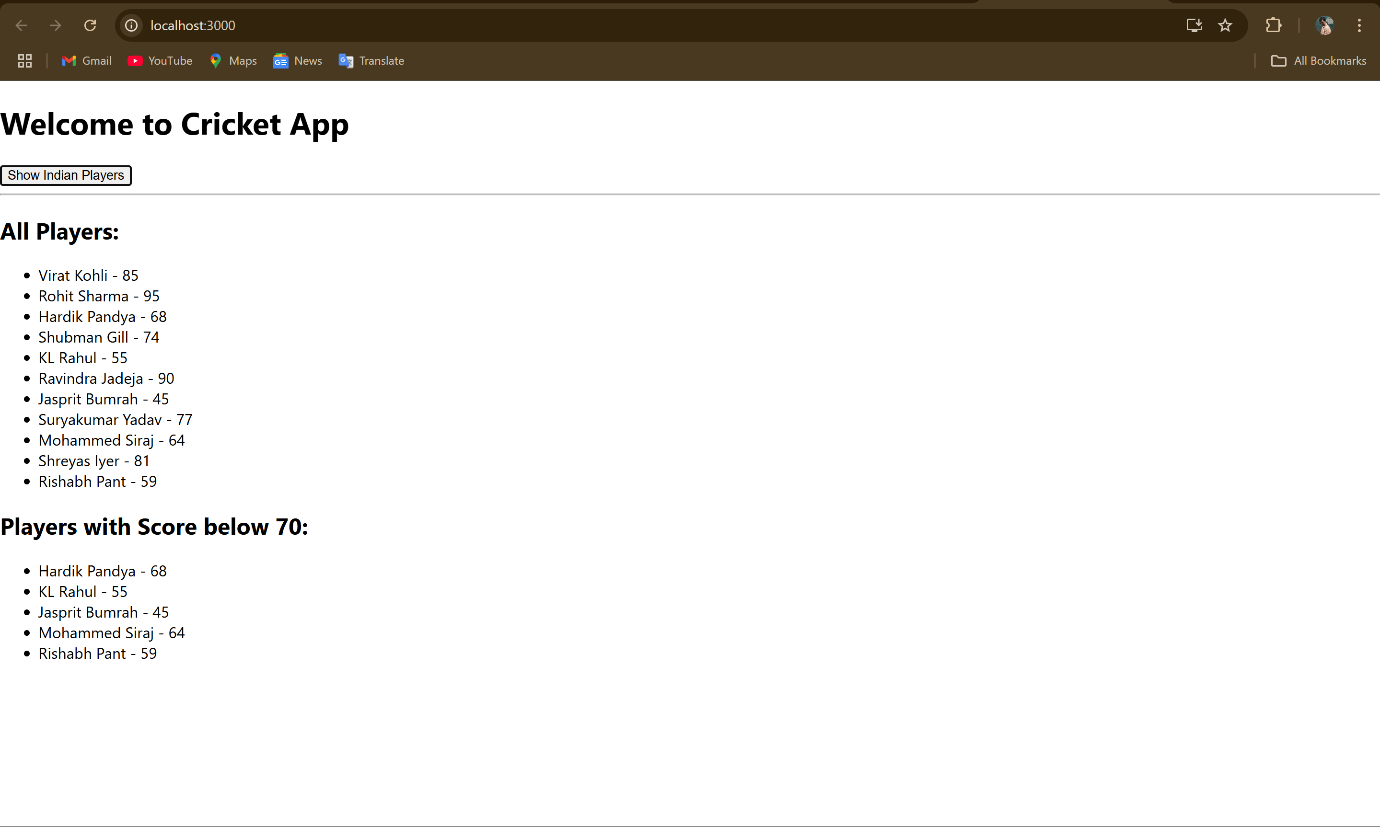
    </div>

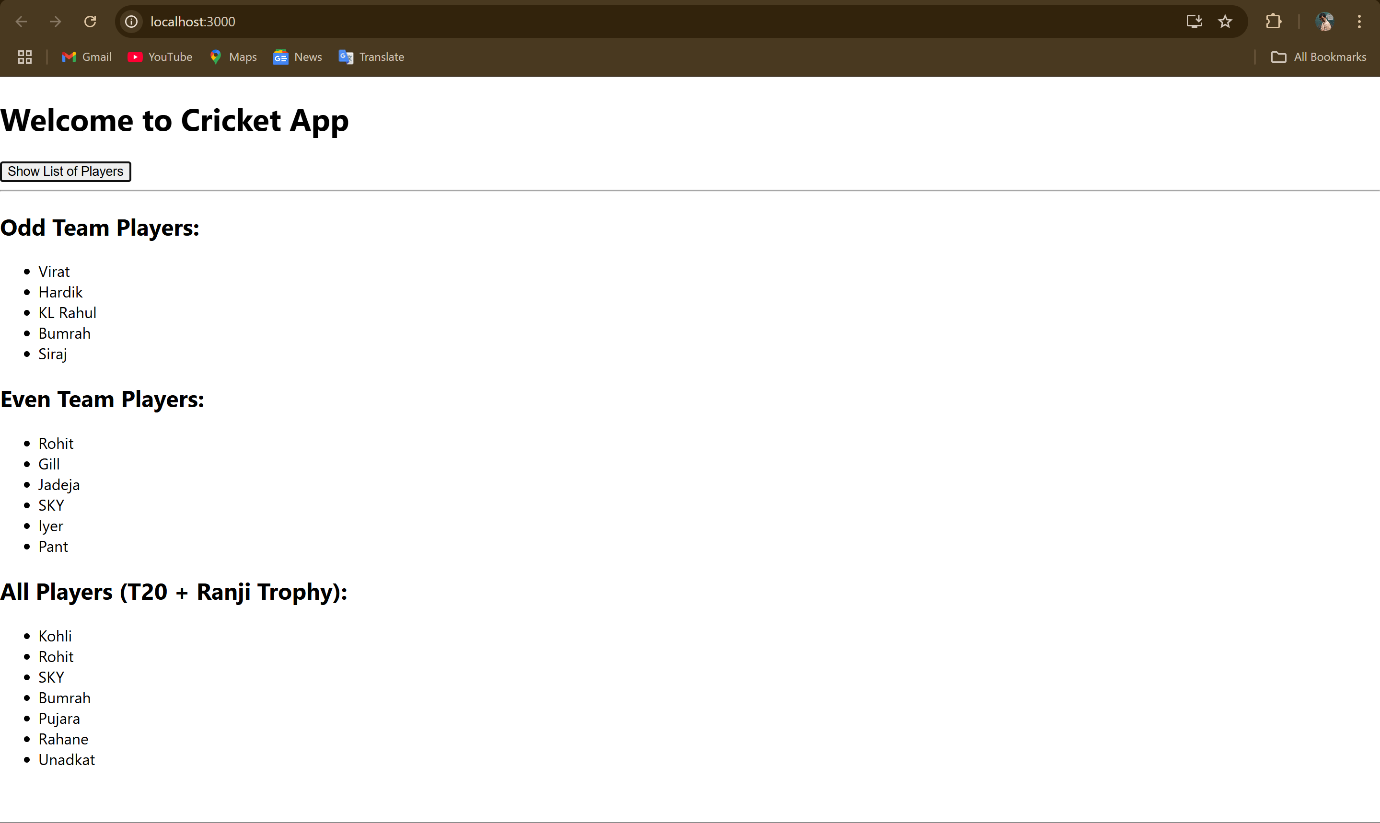
  );

};

export default IndianPlayers;

**Output:**

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****

**Exercise 2: Officespacerentalapp**

**Code:**

**File:App.js**

import React from "react";

import "./App.css";

function App*()*{

  const officeList =[

    {

      id :1,

      name: "Tech Park View",

      rent: 50000,

      address : "123 Tech Lane,Bangaluru",

      image : "https://images.unsplash.com/photo-1507679799987-c73779587ccf?auto=format&fit=crop&w=800&q=60"

    },

    {

      id: 2,

      name: 'Corporate Hub',

      rent: 75000,

      address: '456 Business Bay, Mumbai',

      image: 'https://images.unsplash.com/photo-1573164713988-8665fc963095?auto=format&fit=crop&w=800&q=60',

    },

    {

      id: 3,

      name: 'Startup Studio',

      rent: 45000,

      address: '789 Innovation Street, Pune',

      image: 'https://images.unsplash.com/photo-1600585154340-be6161a56a0c?auto=format&fit=crop&w=800&q=80',

    },

  ];

  return (

    <div className="App">

      <h1>Office Space At Affordable Range</h1>

      {officeList.map(*(office)* =>(

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

          <img src={office.image} alt={office.name}/>

          <h2>{office.name}</h2>

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

          <p className={office.rent<60000 ? "low-rent":"high-rent"}>

            Rent: Rs. {office.rent.toLocaleString()}

          </p>

        </div>

      ))}

    </div>

  )

}

export default App;

**File:App.css**

.low-rent {

  color: red;

  font-weight: bold;

}

.high-rent {

  color: green;

  font-weight: bold;

}

.App {

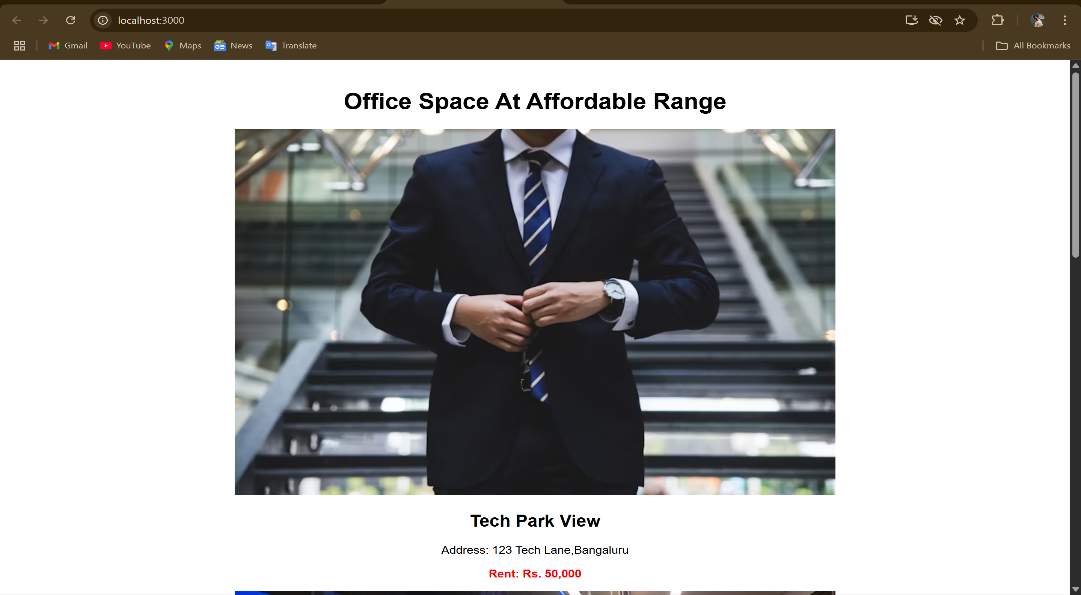
  text-align: center;

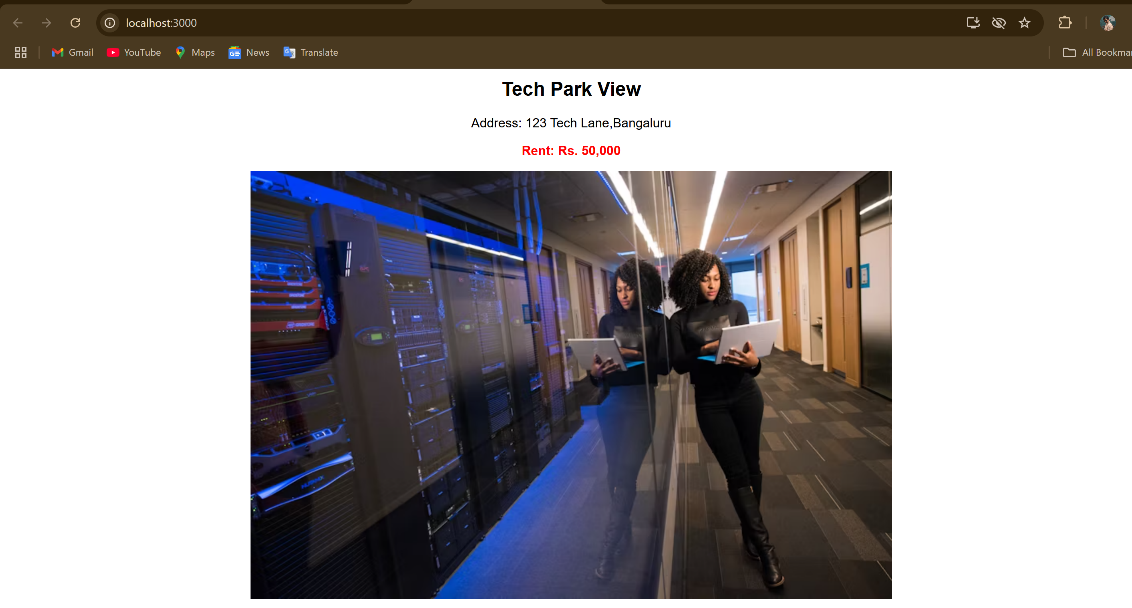
  font-family: Arial, sans-serif;

  padding: 20px;

}

**Output:**

****



**Exercise 3:Eventexamplesapp**

**Code:**

**File:App.js**

import React,{useState} from "react";

import CurrencyConvertor from "./components/CurrencyConvertor";

function App*()* {

  const [counter, setCounter] = useState(0);

  const incrementCounter = *()* => {

    setCounter(prev=>prev+1);

    sayHello();

  };

  const decrementCounter = *()*=>{

    setCounter(prev=>prev-1);

  };

  const sayHello = *()*=>{

    console.log("Hello!This is an increment event");

  };

  const sayWelcome = *(message)* => {

    alert(message);

  };

  const handleSyntheticClick = *(event)* => {

    console.log("I was clicked!");

    alert("I was clicked!");

  };

  return(

    <div className="App">

      <h1>Event Examples App</h1>

      <div>

        <h2>Counter: {counter}</h2>

        <button onClick={incrementCounter}>Increment</button>

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

      </div>

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

        <button onClick={*()*=>sayWelcome("Welcome!")}>Say Welcome</button>

      </div>

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

        <button onClick={handleSyntheticClick}>OnPress</button>

      </div>

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

        <CurrencyConvertor/>

      </div>

    </div>

  )

}

export default App;

**File:src/components/CurrencyConverter.js**

import React, {useState}  from "react";

function CurrencyConvertor*()*{

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

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

    const handleChange = *(event)*=>{

        setRupees(event.target.value);

    };

    const handleSubmit = *()*=>{

        if(!rupees || isNaN(rupees)){

            alert("Please enter a valid number");

            return;

        }

        const conversionRate = 0.011; // Example conversion rate from INR to Euro

        const convertedEuro = (rupees \* conversionRate).toFixed(2);

        setEuro(convertedEuro);

    };

    return(

        <div>

            <h1>Currency Convertor (INR to Euro)</h1>

            <input type="number" value={rupees} onChange={handleChange} placeholder="Enter INR amount"/>

            <button onClick={handleSubmit}>Convert</button>

            {euro !== null && <p>{euro} Euro</p>}

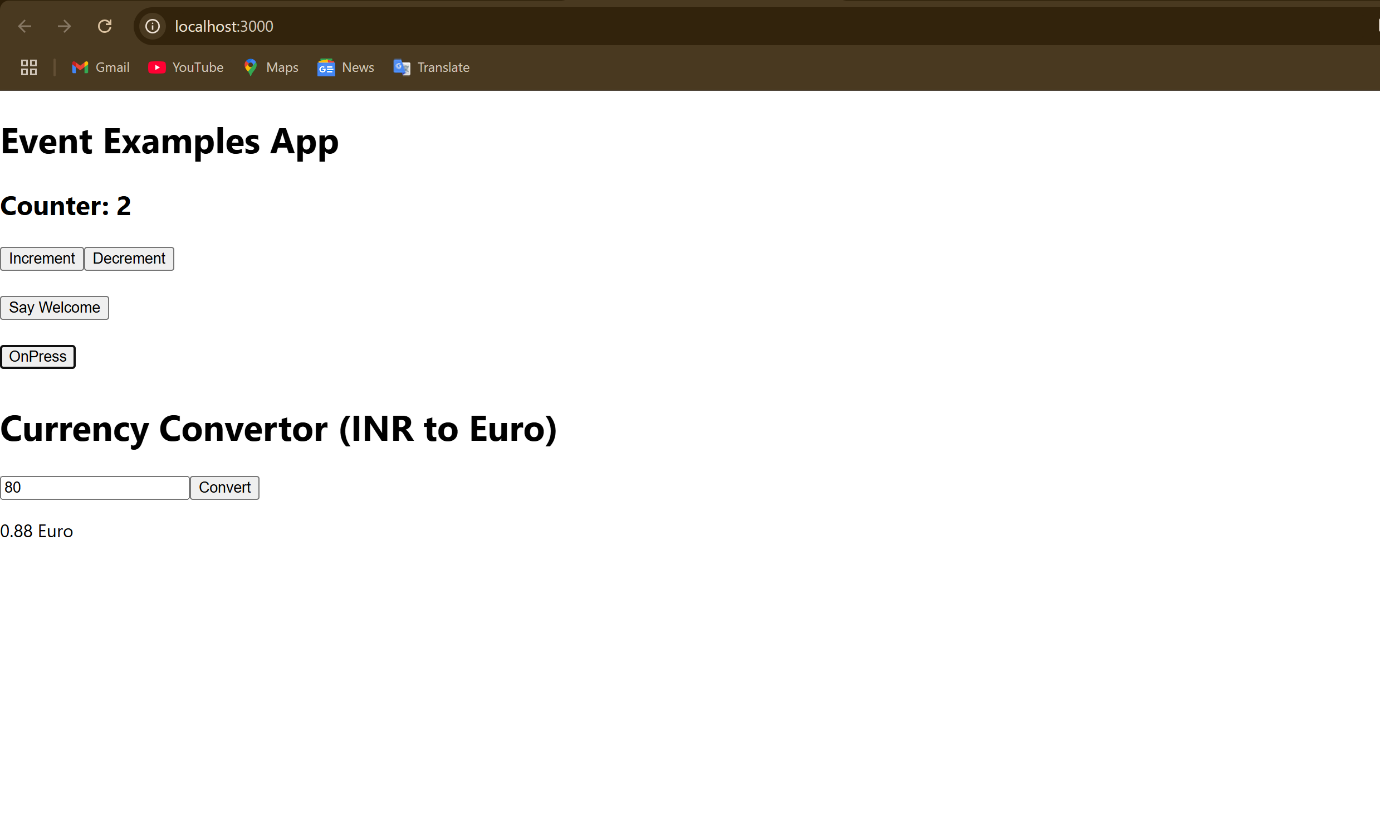
        </div>

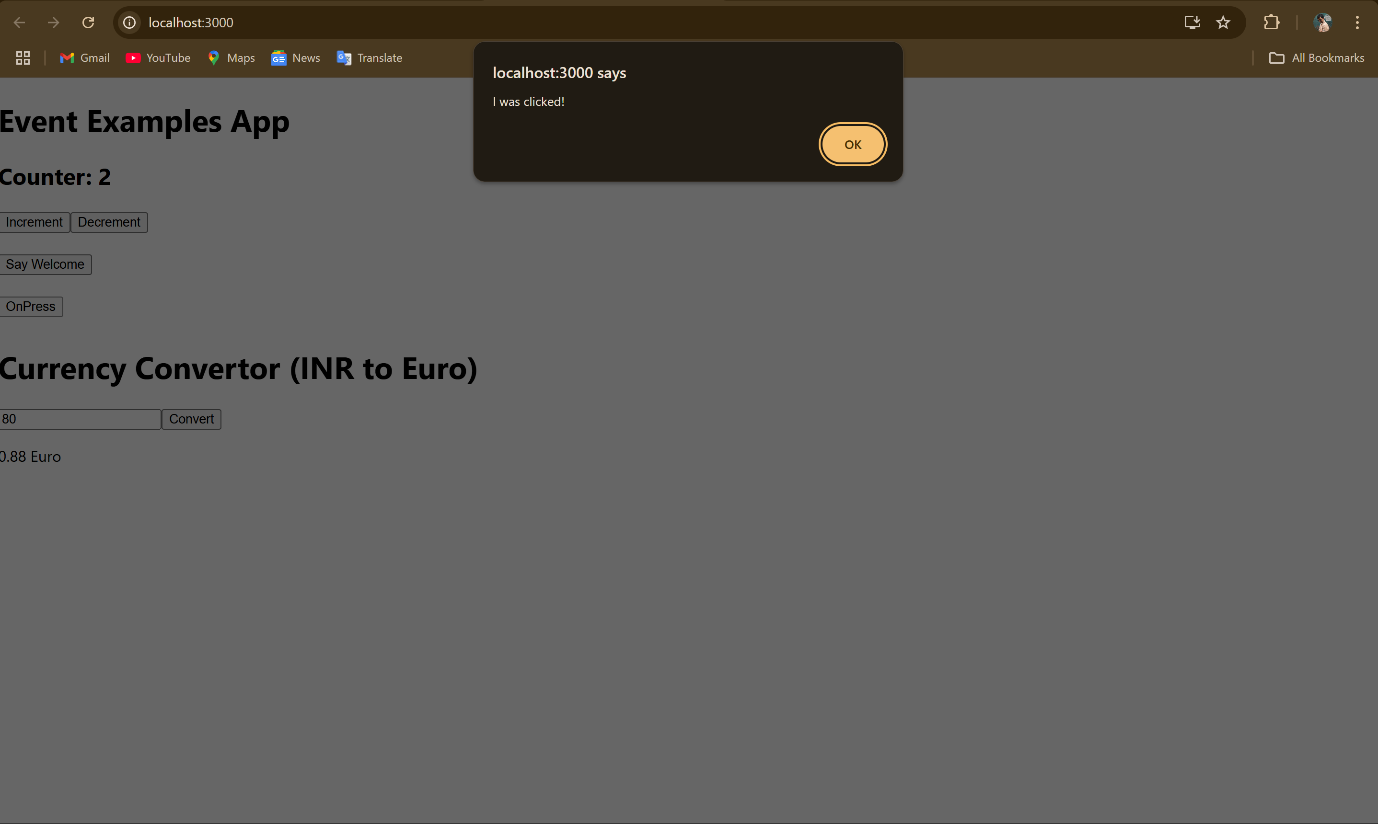
    );

}

export default CurrencyConvertor;

**Output:**

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**Exercise 4:TicketBookingApp**

**Code:**

**File:App.js**

import React, { useState } from 'react';

import './App.css';

import GuestPage from './components/GuestPage';

import UserPage from './components/UserPage';

function App*()* {

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

  const handleLogin = *()* => setIsLoggedIn(true);

  const handleLogout = *()* => setIsLoggedIn(false);

  return (

    <div className="App">

      <header>

        <h1>Ticket Booking App</h1>

        <div>

          {!isLoggedIn ? (

            <button onClick={handleLogin}>Login</button>

          ) : (

            <button onClick={handleLogout}>Logout</button>

          )}

        </div>

      </header>

      <main>

        {isLoggedIn ? <UserPage /> : <GuestPage />}

      </main>

    </div>

  );

}

export default App;

**File:src/components/GuestPage.js**

import React from 'react';

import FlightList from './FlightList';

function GuestPage*()* {

  return (

    <div>

      <h2>Welcome Guest</h2>

      <p>You can browse available flights below.</p>

      <FlightList showBooking={false} />

    </div>

  );

}

export default GuestPage;

**File:src/components/UserPage.js**

import React from 'react';

import FlightList from './FlightList';

function UserPage*()* {

  return (

    <div>

      <h2>Welcome User</h2>

      <p>You can browse and book your flight tickets.</p>

      <FlightList showBooking={true} />

    </div>

  );

}

export default UserPage;

**File:src/components/FlightList.js**

import React from 'react';

const flights = [

  { id: 1, airline: 'Air India', from: 'Delhi', to: 'Mumbai', price: 4500 },

  { id: 2, airline: 'IndiGo', from: 'Bangalore', to: 'Kolkata', price: 5200 },

  { id: 3, airline: 'Vistara', from: 'Chennai', to: 'Hyderabad', price: 3900 },

];

function FlightList*({ showBooking })* {

  const handleBook = *(flight)* => {

    alert(`Ticket booked for ${flight.airline} from ${flight.from} to ${flight.to}`);

  };

  return (

    <div>

      <h3>Available Flights</h3>

      <table border="1" style={{ margin: 'auto', width: '70%' }}>

        <thead>

          <tr>

            <th>Airline</th>

            <th>From</th>

            <th>To</th>

            <th>Price (INR)</th>

            {showBooking && <th>Action</th>}

          </tr>

        </thead>

        <tbody>

          {flights.map(*(flight)* => (

            <tr key={flight.id}>

              <td>{flight.airline}</td>

              <td>{flight.from}</td>

              <td>{flight.to}</td>

              <td>{flight.price}</td>

              {showBooking && (

                <td>

                  <button onClick={*()* => handleBook(flight)}>Book</button>

                </td>

              )}

            </tr>

          ))}

        </tbody>

      </table>

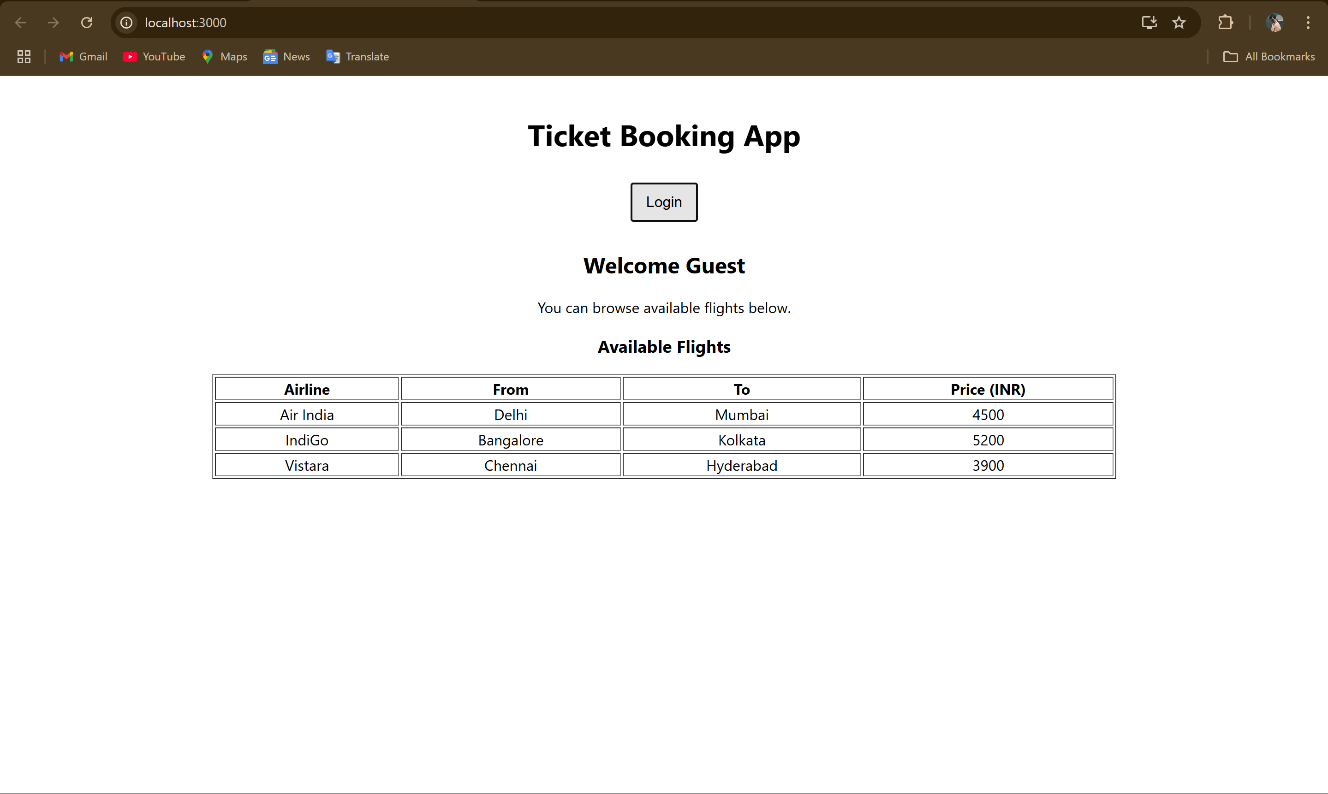
    </div>

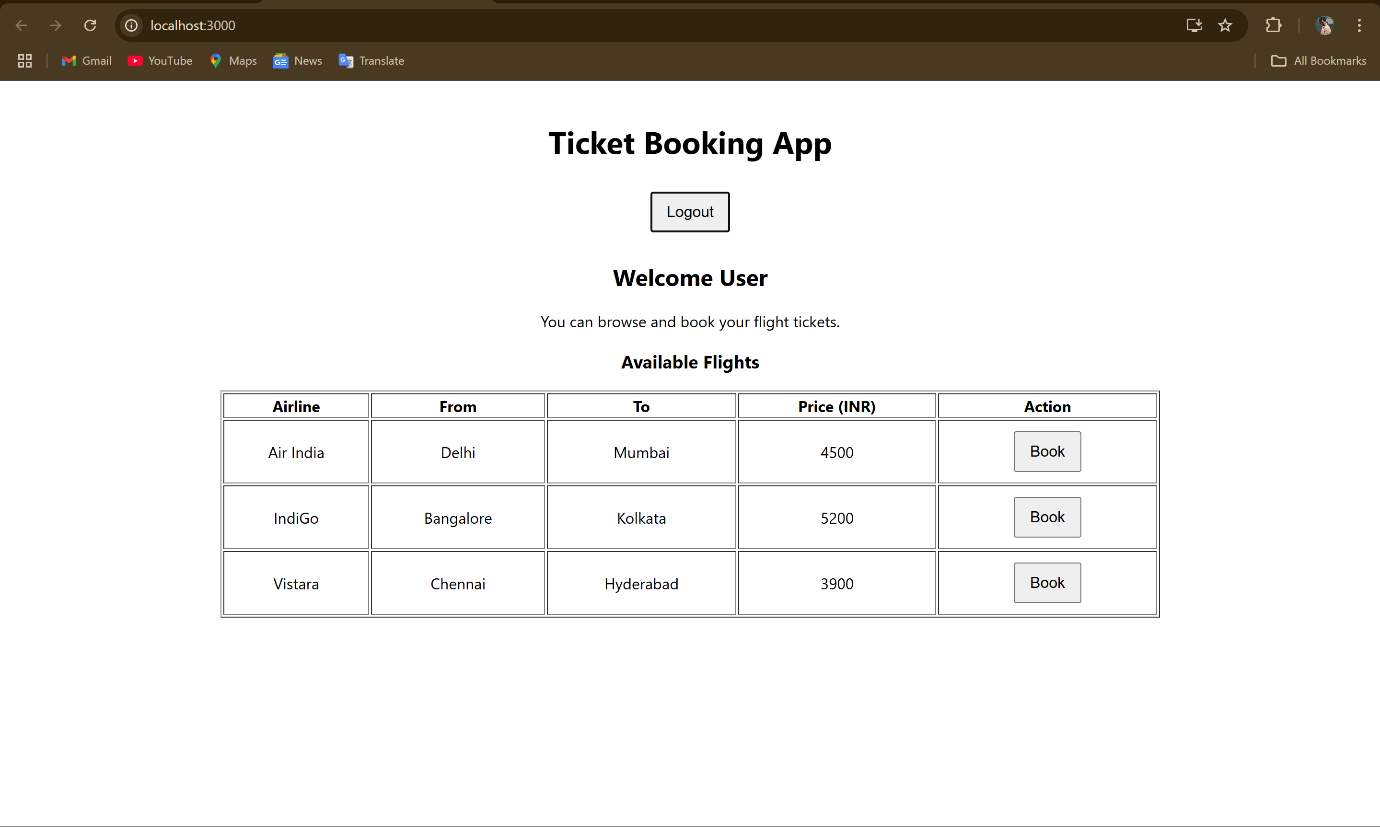
  );

}

export default FlightList;

**Output:**

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**Exercise 5:Bloggerapp**

**Code:**

**File:App.js**

import React, { useState } from 'react';

import './App.css';

import BookDetails from './components/BookDetails';

import BlogDetails from './components/BlogDetails';

import CourseDetails from './components/CourseDetails';

function App*()* {

  const [currentView, setCurrentView] = useState('book');

  // 1️⃣ Element Variables

  let content;

  if (currentView === 'book') {

    content = <BookDetails />;

  } else if (currentView === 'blog') {

    content = <BlogDetails />;

  } else {

    content = <CourseDetails />;

  }

  // 2️⃣ Function for switch-case rendering

  const renderComponent = *()* => {

    switch (currentView) {

      case 'book':

        return <BookDetails />;

      case 'blog':

        return <BlogDetails />;

      case 'course':

        return <CourseDetails />;

      default:

        return <p>Select a valid view</p>;

    }

  };

  return (

    <div className="App">

      <h1>Blogger App</h1>

      <div>

        <button onClick={*()* => setCurrentView('book')}>Book</button>

        <button onClick={*()* => setCurrentView('blog')}>Blog</button>

        <button onClick={*()* => setCurrentView('course')}>Course</button>

      </div>

      <hr />

      <h3>1️⃣ Using Element Variable (If/Else)</h3>

      {content}

      <h3>2️⃣ Using Ternary Operator</h3>

      {currentView === 'book' ? <BookDetails /> : <p>Not Book View</p>}

      <h3>3️⃣ Using Short-circuit AND</h3>

      {currentView === 'blog' && <BlogDetails />}

      <h3>4️⃣ Using Switch-case Function</h3>

      {renderComponent()}

    </div>

  );

}

export default App;

**File:src/components/BookDetails.js**

import React from 'react';

const BookDetails = *()* => (

  <div>

    <h2>Book Details</h2>

    <p>📖 Title: React for Beginners</p>

    <p>✍️ Author: John Doe</p>

    <p>💰 Price: ₹499</p>

  </div>

);

export default BookDetails;

**File:src/components/BlogDetails.js**

import React from 'react';

const BlogDetails = *()* => (

  <div>

    <h2>Blog Details</h2>

    <p>📝 Title: Understanding React Hooks</p>

    <p>📅 Date: 30 July 2025</p>

    <p>👤 Author: Jane Smith</p>

  </div>

);

export default BlogDetails;

**File:src/components/CourseDetails.js**

import React from 'react';

const CourseDetails = *()* => (

  <div>

    <h2>Course Details</h2>

    <p>🎓 Course: Mastering React</p>

    <p>📍 Duration: 6 weeks</p>

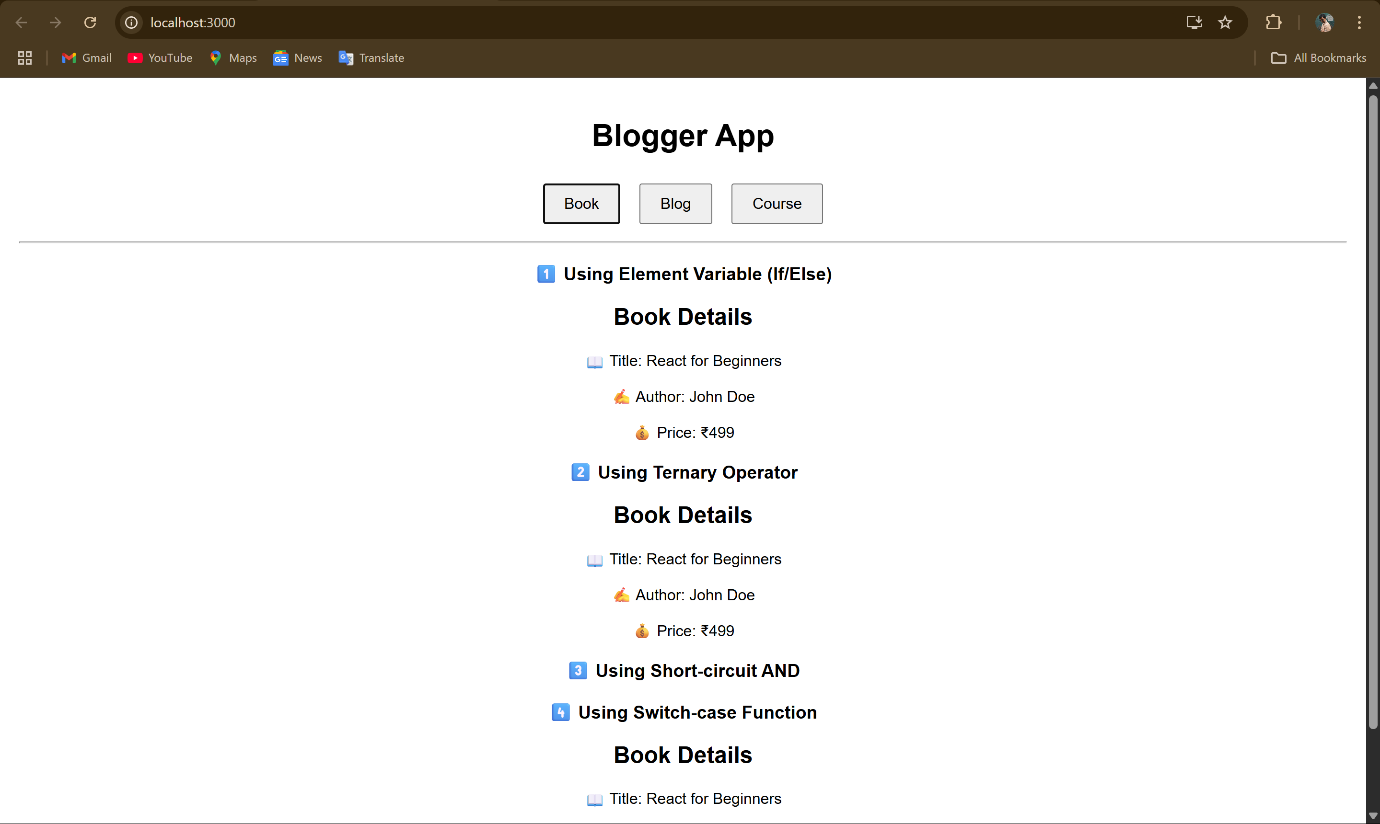
    <p>🎯 Level: Intermediate</p>

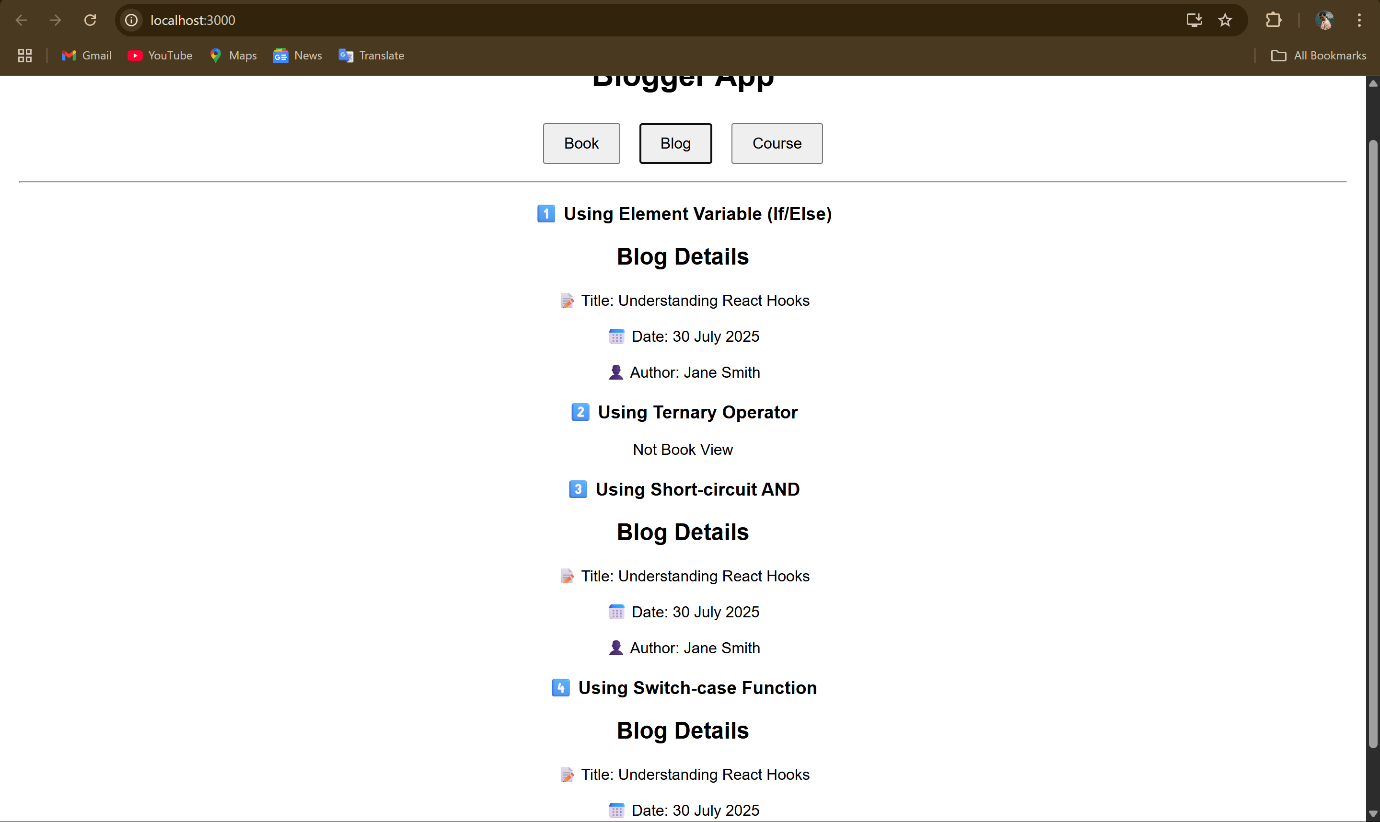
  </div>

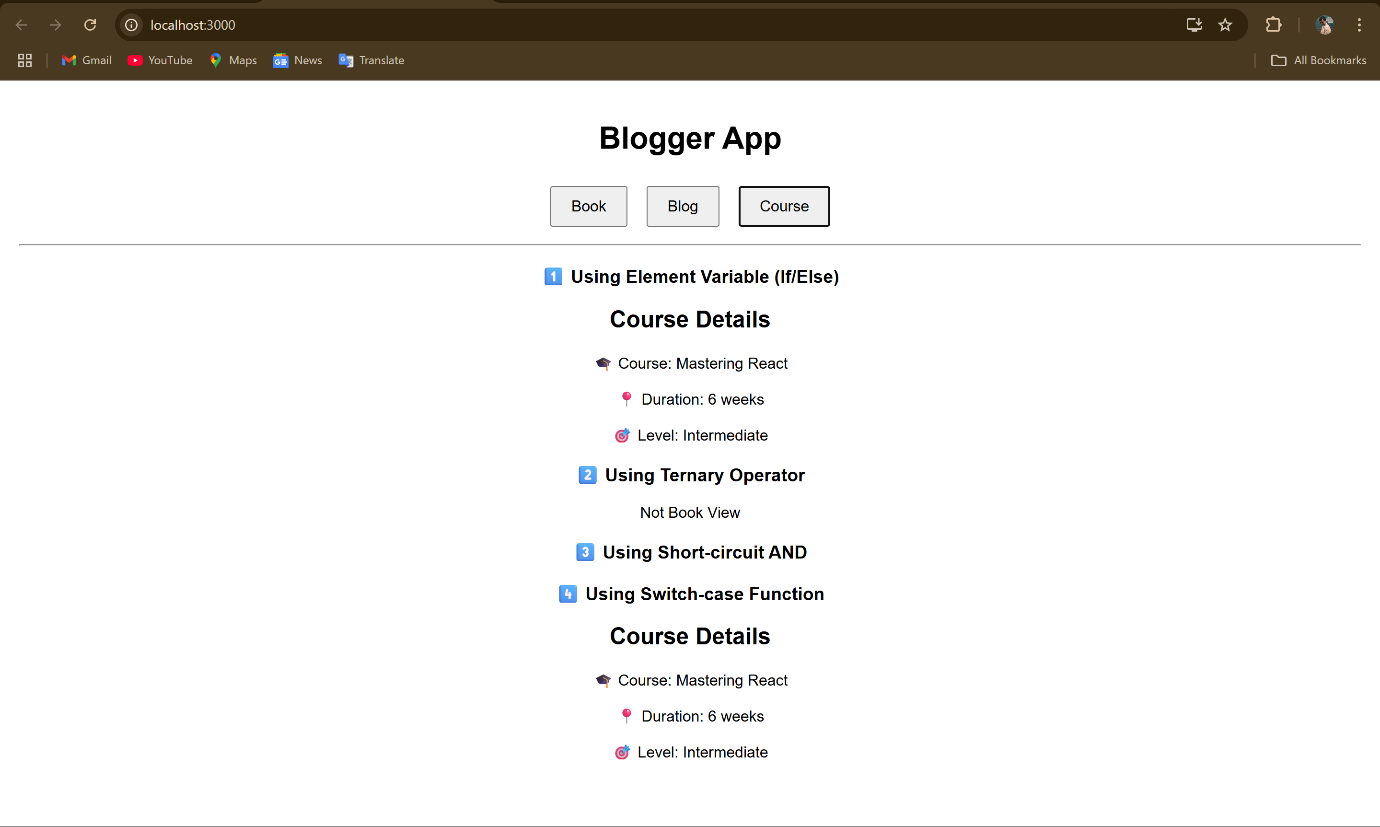
);

export default CourseDetails;

**Output:**

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