**Deep Skilling - Week 7 Mandatory Hands-on Exercises**

**Skill : React**

**Exercise - 1:**

**Code:**

[**App.js**](http://app.js)

**import React from 'react';**

**import ListOfPlayers from './ListOfPlayers';**

**import IndianPlayers from './IndianPlayers';**

**function App() {**

**let flag = true; // Change this to false to see IndianPlayers component**

**return (**

**<div className="App">**

**<h1>Cricket App</h1>**

**{flag ? <ListOfPlayers /> : <IndianPlayers />}**

**</div>**

**);**

**}**

**export default App;**

[**ListOfPlayers.js**](http://listofplayers.js)

**import React from 'react';**

**function ListOfPlayers() {**

**const players = [**

**{ name: 'Virat', score: 90 },**

**{ name: 'Rohit', score: 80 },**

**{ name: 'Rahul', score: 45 },**

**{ name: 'Shreyas', score: 60 },**

**{ name: 'Pant', score: 50 },**

**{ name: 'Jadeja', score: 95 },**

**{ name: 'Ashwin', score: 30 },**

**{ name: 'Bumrah', score: 55 },**

**{ name: 'Shami', score: 85 },**

**{ name: 'Ishan', score: 40 },**

**{ name: 'Gill', score: 100 }**

**];**

**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>**

**<h2>Players with score &gt;= 70:</h2>**

**<ul>**

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

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

**))}**

**</ul>**

**</div>**

**);**

**}**

**export default ListOfPlayers;**

[**IndianPlayers.js**](http://indianplayers.js)

**import React from 'react';**

**function IndianPlayers() {**

**const OddTeam = ['Virat', 'Rohit', 'Pant', 'Jadeja', 'Shami'];**

**const EvenTeam = ['Rahul', 'Gill', 'Ashwin', 'Bumrah', 'Ishan', 'Surya'];**

**const [odd1, odd2, ...restOdd] = OddTeam;**

**const [even1, even2, ...restEven] = EvenTeam;**

**const T20Players = ['Kohli', 'Rohit', 'Bumrah'];**

**const RanjiPlayers = ['Ruturaj', 'Jaiswal', 'Siraj'];**

**const allPlayers = [...T20Players, ...RanjiPlayers];**

**return (**

**<div>**

**<h2>Odd Team Players:</h2>**

**<ul>**

**<li>{odd1}</li>**

**<li>{odd2}</li>**

**{restOdd.map((p, i) => <li key={i}>{p}</li>)}**

**</ul>**

**<h2>Even Team Players:</h2>**

**<ul>**

**<li>{even1}</li>**

**<li>{even2}</li>**

**{restEven.map((p, i) => <li key={i}>{p}</li>)}**

**</ul>**

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

**<ul>**

**{allPlayers.map((p, i) => <li key={i}>{p}</li>)}**

**</ul>**

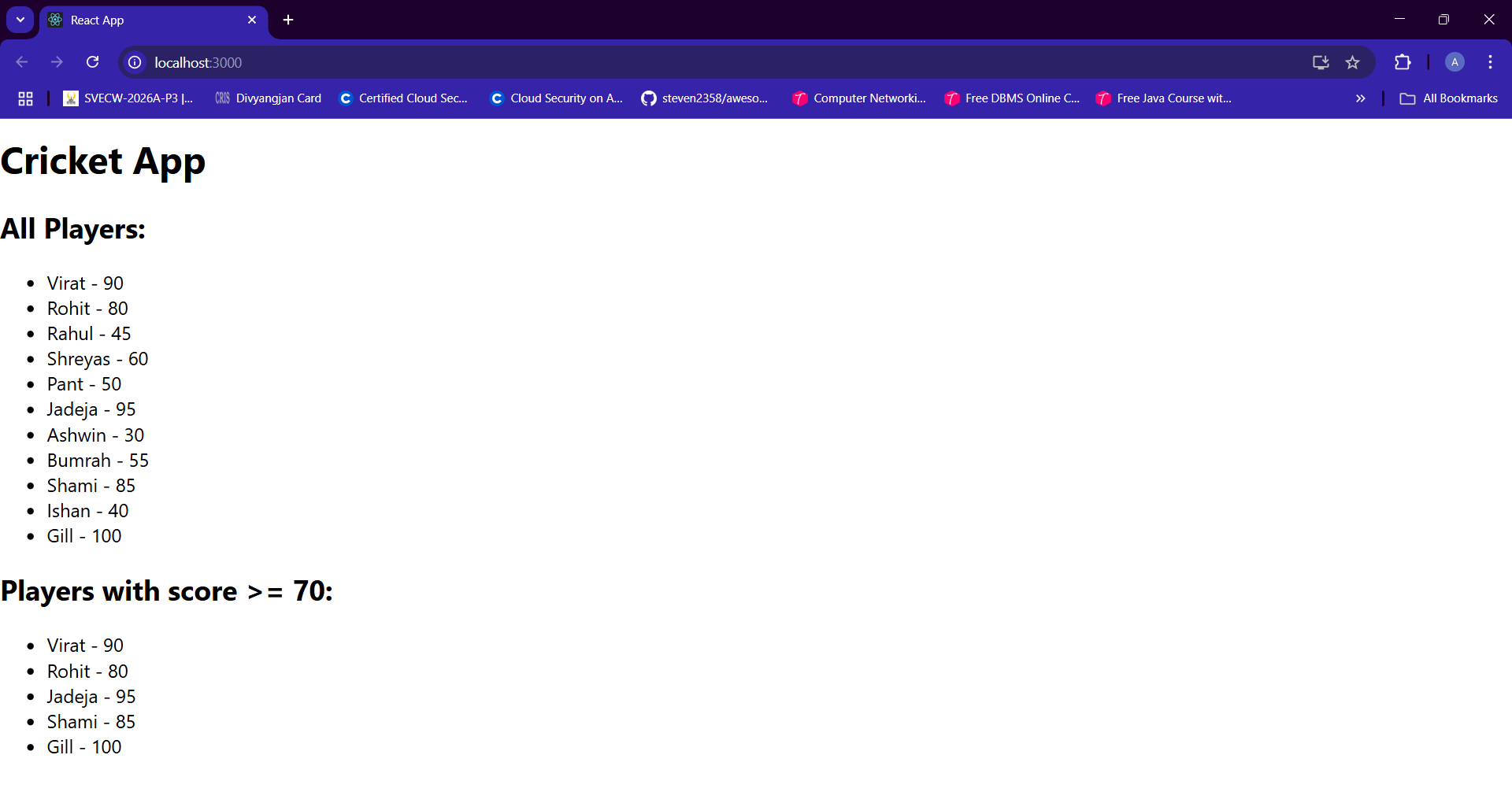
**</div>**

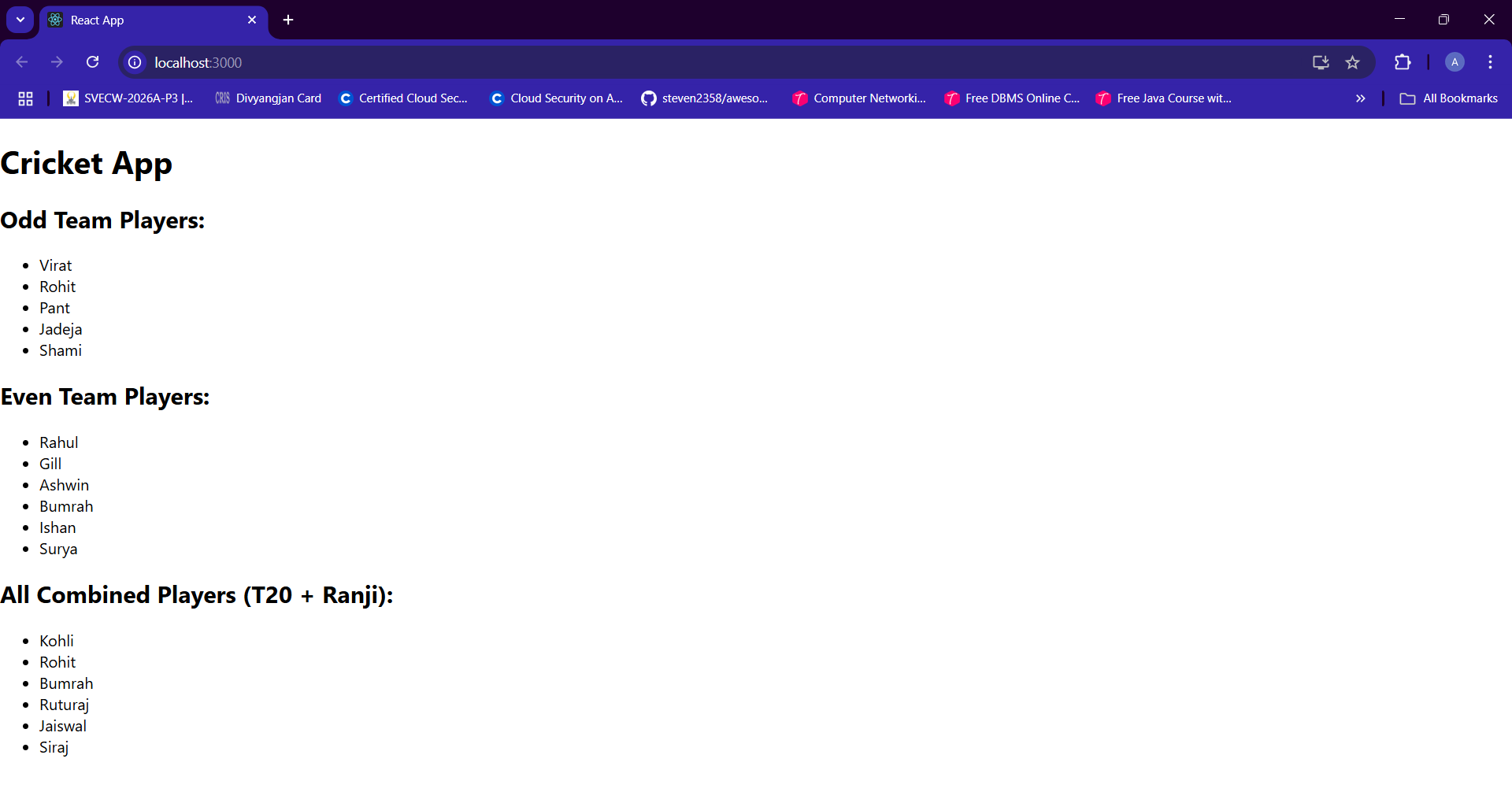
**);**

**}**

**export default IndianPlayers;**

**Output:**





**Exercise - 2:**

**Code:**

[**App.js**](http://app.js)

**import React from 'react';**

**import OfficeSpaceList from './OfficeSpaceList';**

**function App() {**

**return (**

**<div className="App">**

**<OfficeSpaceList />**

**</div>**

**);**

**}**

**export default App;**

[**OfficeSpaceList.js**](http://officespacelist.js)

**import React from 'react';**

**function OfficeSpaceList() {**

**const office = {**

**name: "SpaceHub",**

**rent: 55000,**

**address: "MG Road, Bangalore",**

**image: "https://media.istockphoto.com/id/479842074/photo/empty-road-at-building-exterior.jpg?s=612x612&w=0&k=20&c=SbyfZGN0i2O\_QPLCdBcu9vhuzbQvTz4bGEn-lIzrN0E="**

**};**

**const officeSpaces = [**

**{**

**name: "SpaceHub",**

**rent: 55000,**

**address: "MG Road, Bangalore",**

**image: "https://media.istockphoto.com/id/182188795/photo/modern-office-building-exterior.jpg?s=612x612&w=0&k=20&c=EdYZcOf-dEILEuKBdmKQ175YJB5ybNemy6aQ-3xZaPE="**

**},**

**{**

**name: "WorkZone",**

**rent: 65000,**

**address: "Koramangala, Bangalore",**

**image: "data:image/jpeg;base64,"**

**},**

**{**

**name: "StartNest",**

**rent: 60000,**

**address: "HSR Layout, Bangalore",**

**image: "data:image/jpeg;base64,"**

**}**

**];**

**return (**

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

**<h1 style={{ textAlign: 'center' }}> Office Space Rental App</h1>**

**<img src={office.image} alt="Office" style={{ display: 'block', margin: '0 auto' }} />**

**<h2>Featured Office:</h2>**

**<p><strong>Name:</strong> {office.name}</p>**

**<p><strong>Rent:</strong> <span style={{ color: office.rent >= 60000 ? 'green' : 'red' }}>{office.rent}</span></p>**

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

**<hr />**

**<h2>Available Office Spaces:</h2>**

**{officeSpaces.map((space, index) => (**

**<div key={index} style={{ border: '1px solid #ccc', padding: '10px', marginBottom: '10px' }}>**

**<img src={space.image} alt={space.name} style={{ width: '100%', maxWidth: '300px' }} />**

**<p><strong>Name:</strong> {space.name}</p>**

**<p><strong>Rent:</strong> <span style={{ color: space.rent >= 60000 ? 'green' : 'red' }}>{space.rent}</span></p>**

**<p><strong>Address:</strong> {space.address}</p>**

**</div>**

**))}**

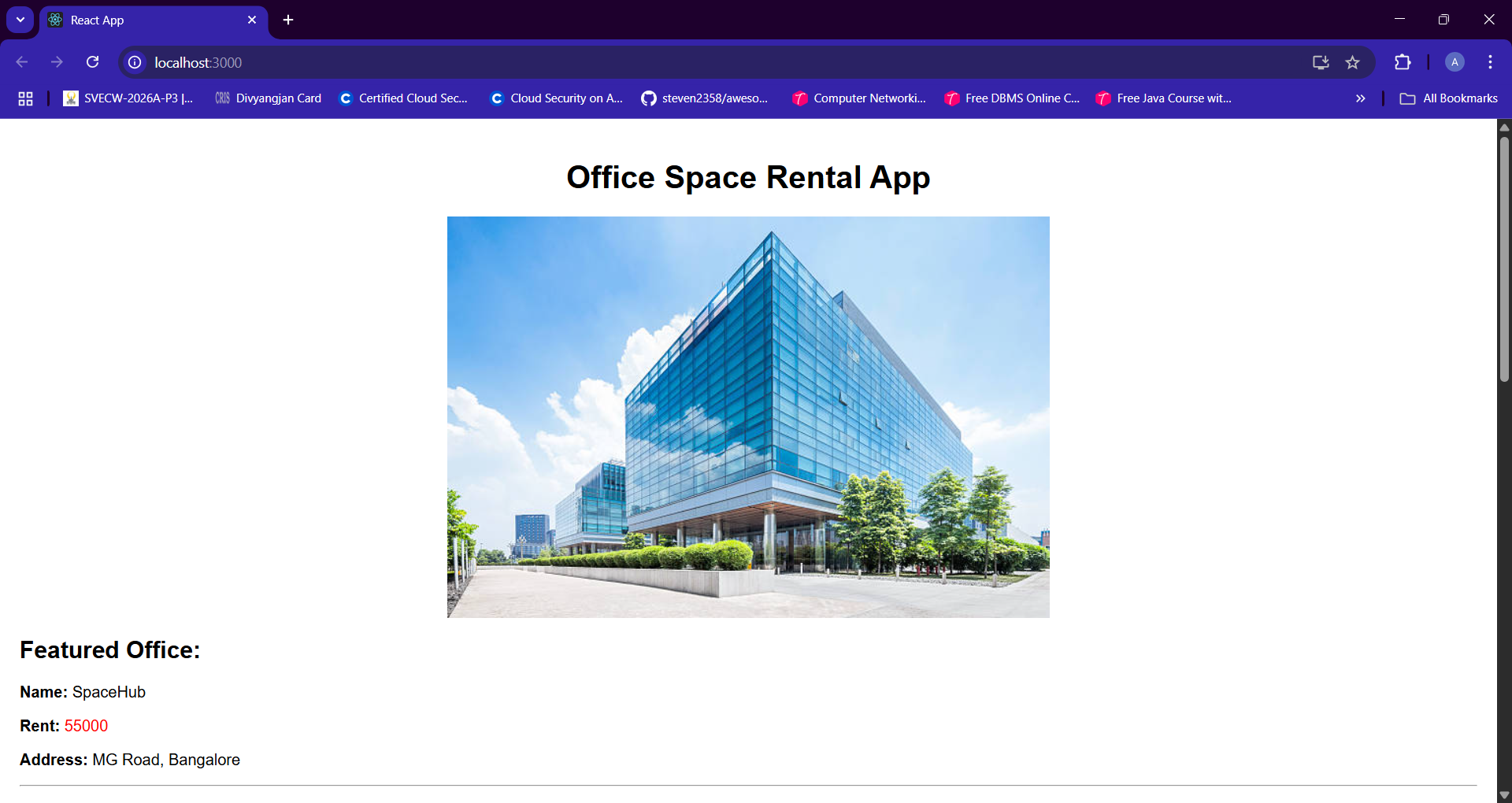
**</div>**

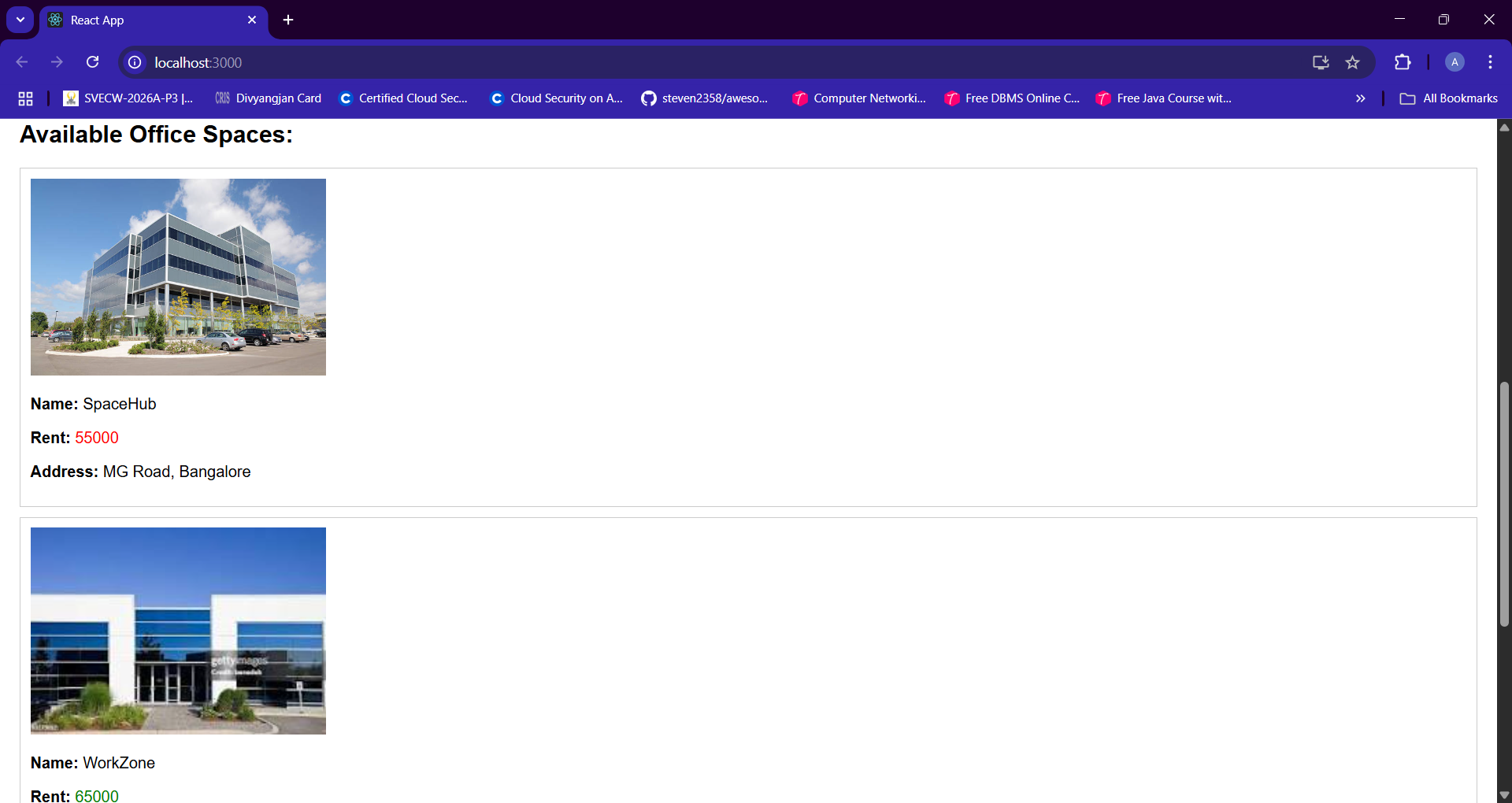
**);**

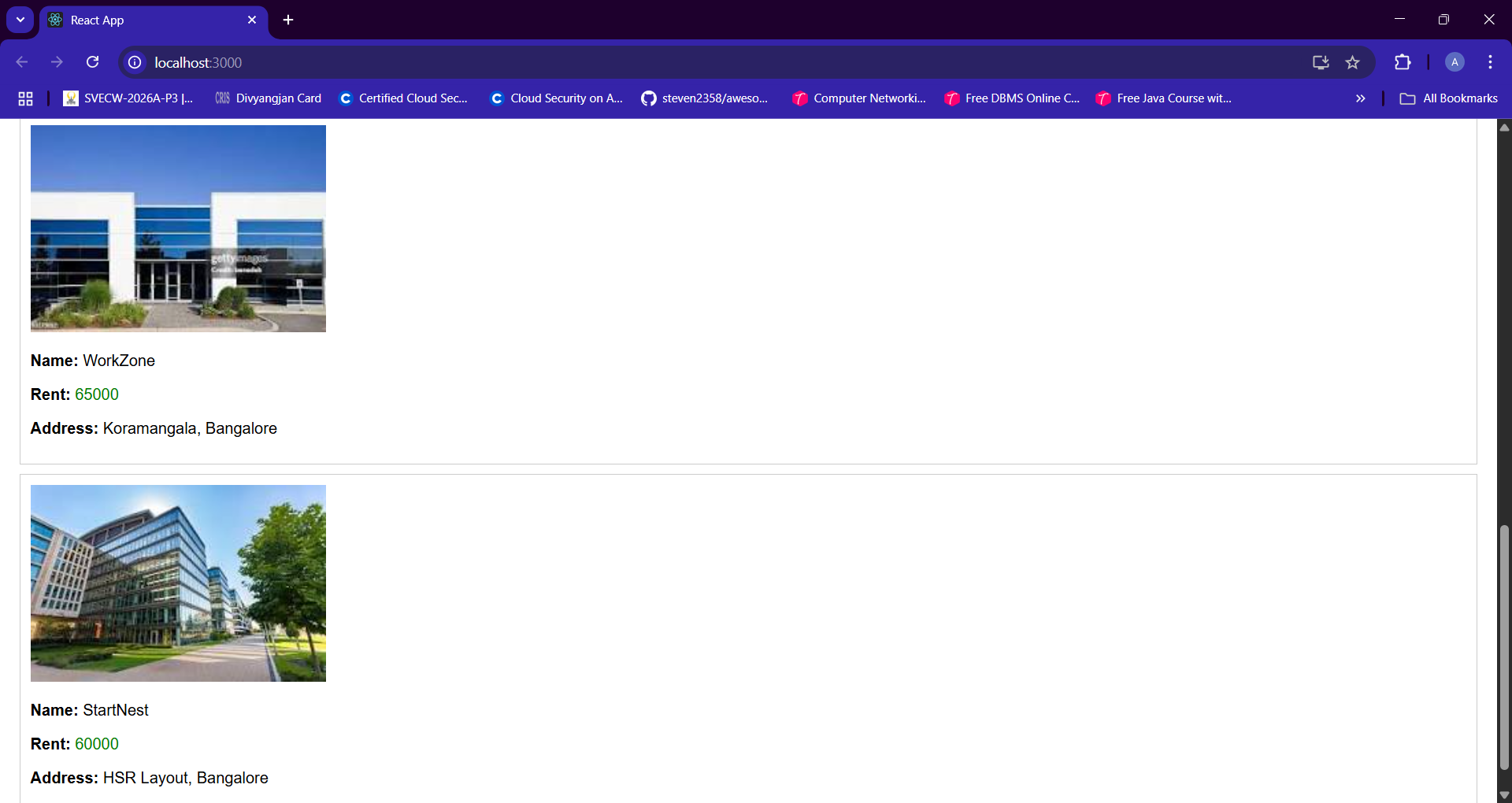
**}**

**export default OfficeSpaceList;**

**Output:**

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**Exercise - 3:**

**Code:**

[**App.js**](http://app.js)

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

**import CurrencyConvertor from './CurrencyConvertor';**

**class App extends Component {**

**constructor(props) {**

**super(props);**

**this.state = {**

**count: 0,**

**message: ''**

**};**

**}**

**increment = () => {**

**this.setState((prev) => ({ count: prev.count + 1 }));**

**this.sayHello();**

**};**

**sayHello = () => {**

**console.log('Hello! This is a static message.');**

**this.setState({ message: 'Hello! Count was incremented.' });**

**};**

**decrement = () => {**

**this.setState((prev) => ({ count: prev.count - 1 }));**

**};**

**sayWelcome = (msg) => {**

**this.setState({ message: msg });**

**};**

**handleClick = (event) => {**

**console.log('Synthetic event triggered:', event);**

**this.setState({ message: 'I was clicked' });**

**};**

**render() {**

**return (**

**<div style={{ padding: '20px' }}>**

**<h1>React Events Demo</h1>**

**<h2>Counter: {this.state.count}</h2>**

**<button onClick={this.increment}>Increment</button>**

**<button onClick={this.decrement}>Decrement</button>**

**<br /><br />**

**<button onClick={() => this.sayWelcome('Welcome to the app!')}>Say Welcome</button>**

**<br /><br />**

**<button onClick={this.handleClick}>OnPress</button>**

**<h3>{this.state.message}</h3>**

**<hr />**

**<CurrencyConvertor />**

**</div>**

**);**

**}**

**}**

**export default App;**

[**CurrencyConvertor.js**](http://currencyconvertor.js)

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

**class CurrencyConvertor extends Component {**

**constructor(props) {**

**super(props);**

**this.state = {**

**rupees: '',**

**euro: ''**

**};**

**}**

**handleChange = (event) => {**

**this.setState({ rupees: event.target.value });**

**};**

**handleSubmit = (event) => {**

**event.preventDefault();**

**const euroValue = parseFloat(this.state.rupees) / 90;**

**this.setState({ euro: euroValue.toFixed(2) });**

**};**

**render() {**

**return (**

**<div>**

**<h2>Currency Convertor</h2>**

**<form onSubmit={this.handleSubmit}>**

**<label>**

**Amount in ₹ INR:**

**<input**

**type="number"**

**value={this.state.rupees}**

**onChange={this.handleChange}**

**required**

**/>**

**</label>**

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

**</form>**

**<p>Converted Amount in Euro: <strong>{this.state.euro}</strong></p>**

**</div>**

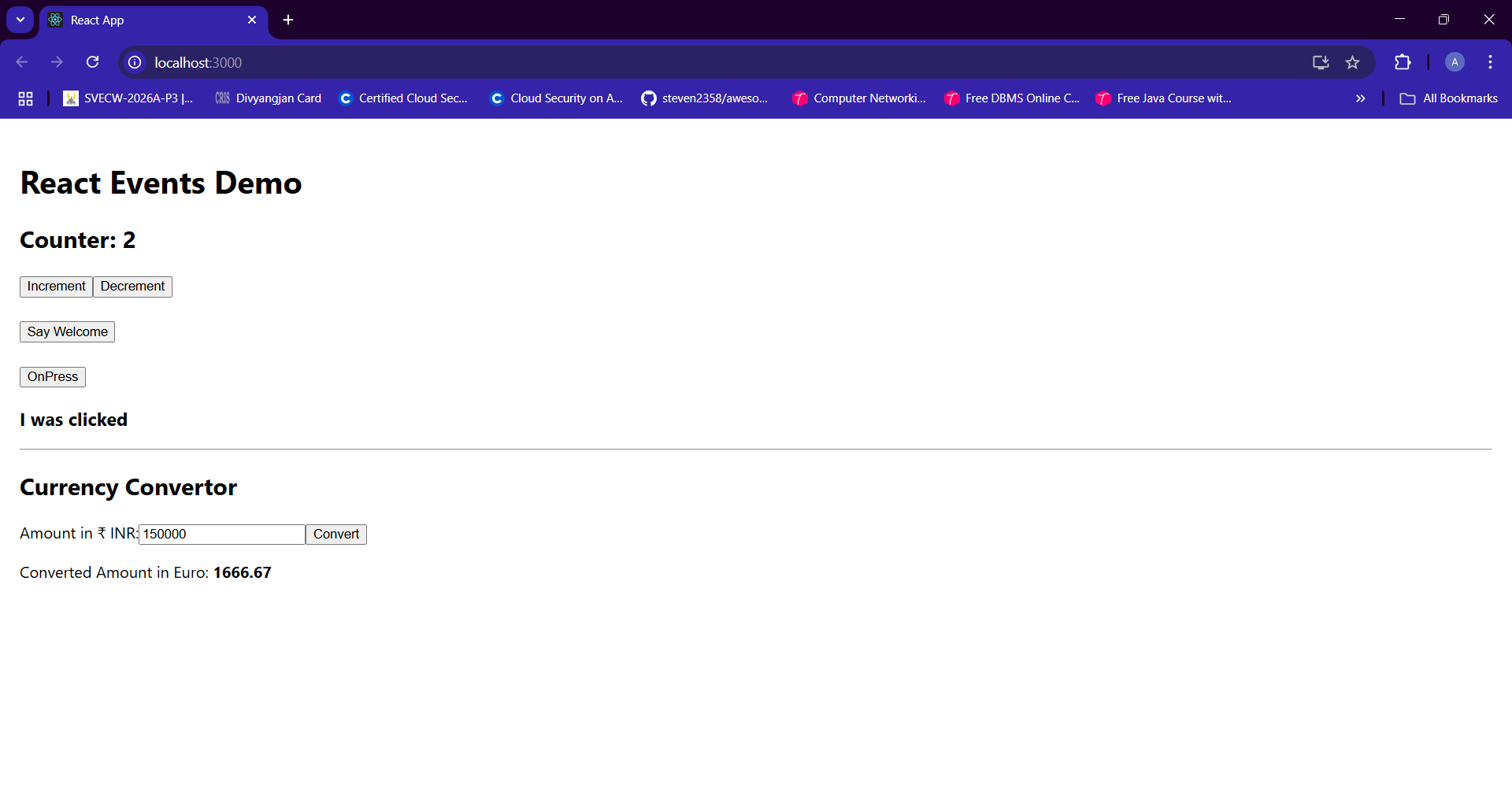
**);**

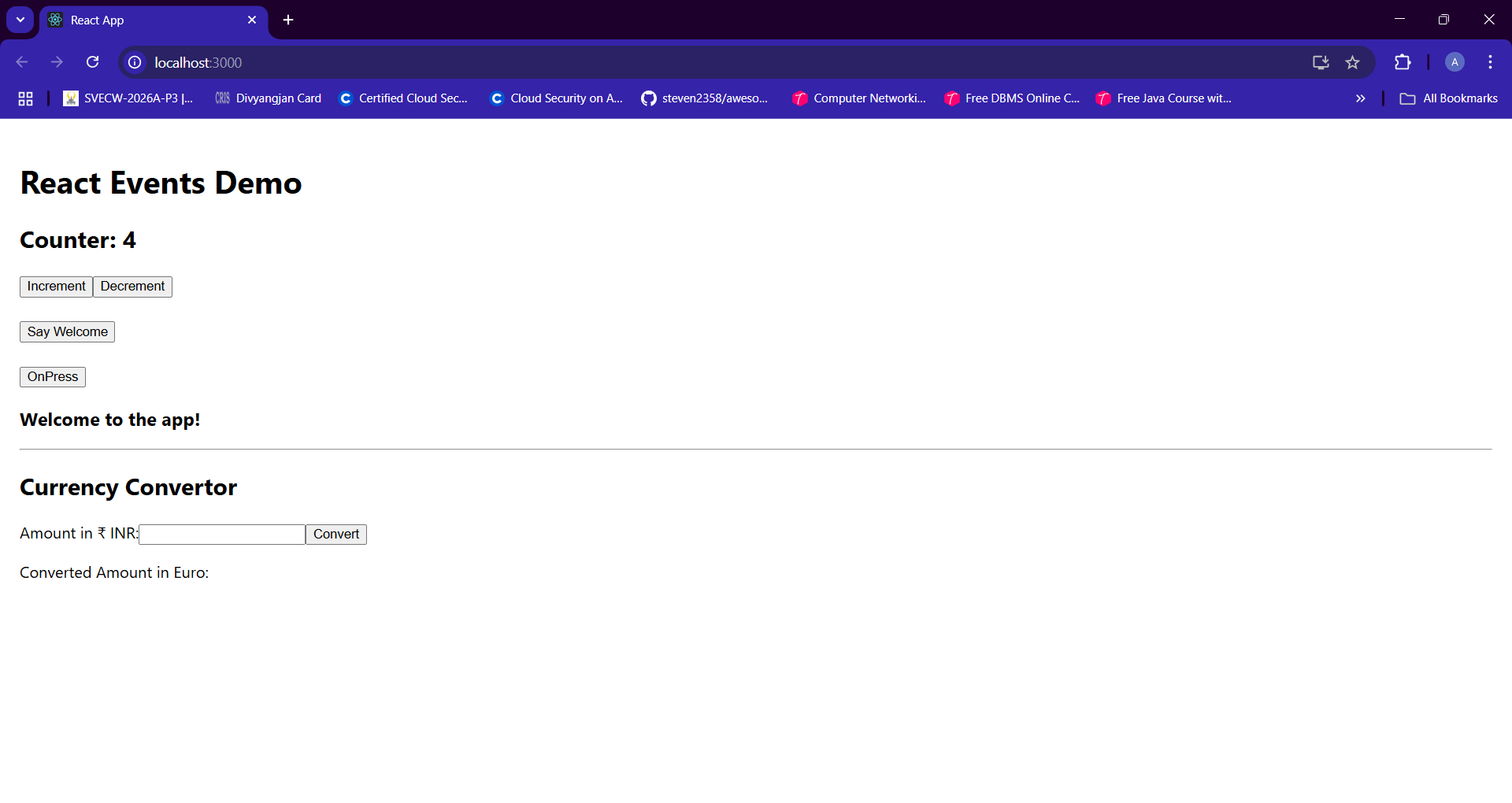
**}**

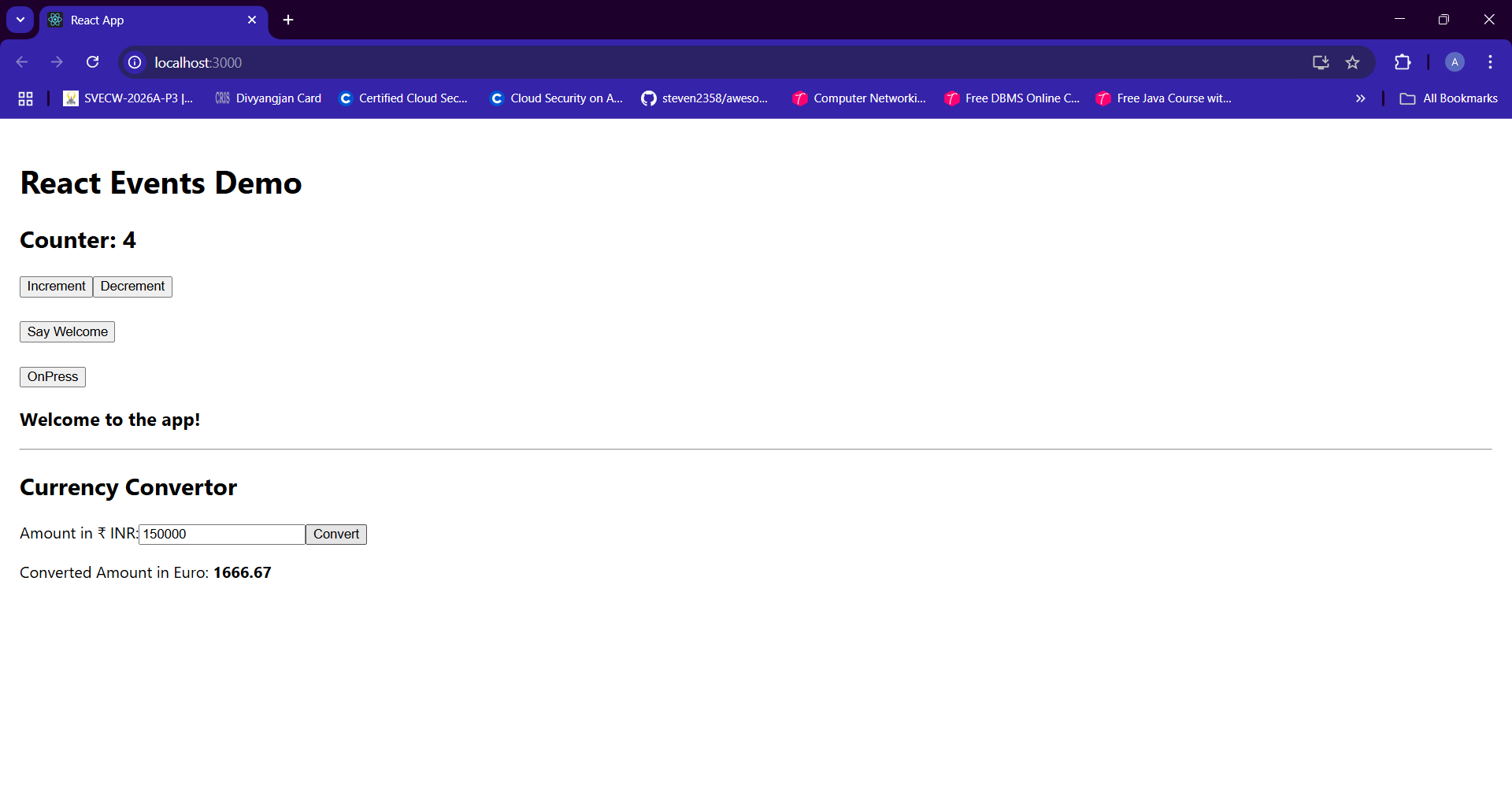
**}**

**export default CurrencyConvertor;**

**Output:**

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****

****

**Exercise - 4:**

**Code:**

[**App.js**](http://app.js)

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

**import GuestPage from './GuestPage';**

**import UserPage from './UserPage';**

**class App extends Component {**

**constructor(props) {**

**super(props);**

**this.state = {**

**isLoggedIn: false**

**};**

**}**

**handleLogin = () => {**

**this.setState({ isLoggedIn: true });**

**};**

**handleLogout = () => {**

**this.setState({ isLoggedIn: false });**

**};**

**render() {**

**let content;**

**if (this.state.isLoggedIn) {**

**content = <UserPage />;**

**} else {**

**content = <GuestPage />;**

**}**

**return (**

**<div className="App" style={{ padding: '20px' }}>**

**<h1>Ticket Booking App</h1>**

**<div style={{ marginBottom: '20px' }}>**

**{this.state.isLoggedIn ? (**

**<button onClick={this.handleLogout}>Logout</button>**

**) : (**

**<button onClick={this.handleLogin}>Login</button>**

**)}**

**</div>**

**{content}**

**</div>**

**);**

**}**

**}**

**export default App;**

[**GuestPage.js**](http://guestpage.js)

**import React from 'react';**

**function GuestPage() {**

**return (**

**<div>**

**<h2>Welcome, Guest!</h2>**

**<p>Click on login to view flight details and book the tickets.</p>**

**</div>**

**);**

**}**

**export default GuestPage;**

[**UserPage.js**](http://userpage.js)

**import React from 'react';**

**function UserPage() {**

**return (**

**<div>**

**<h2>Welcome, User!</h2>**

**<p>You can view and book flights.</p>**

**<ul>**

**<li>Flight 101: Delhi to Mumbai <button>Book</button></li>**

**<li>Flight 202: Mumbai to Bangalore <button>Book</button></li>**

**<li>Flight 303: Chennai to Delhi <button>Book</button></li>**

**</ul>**

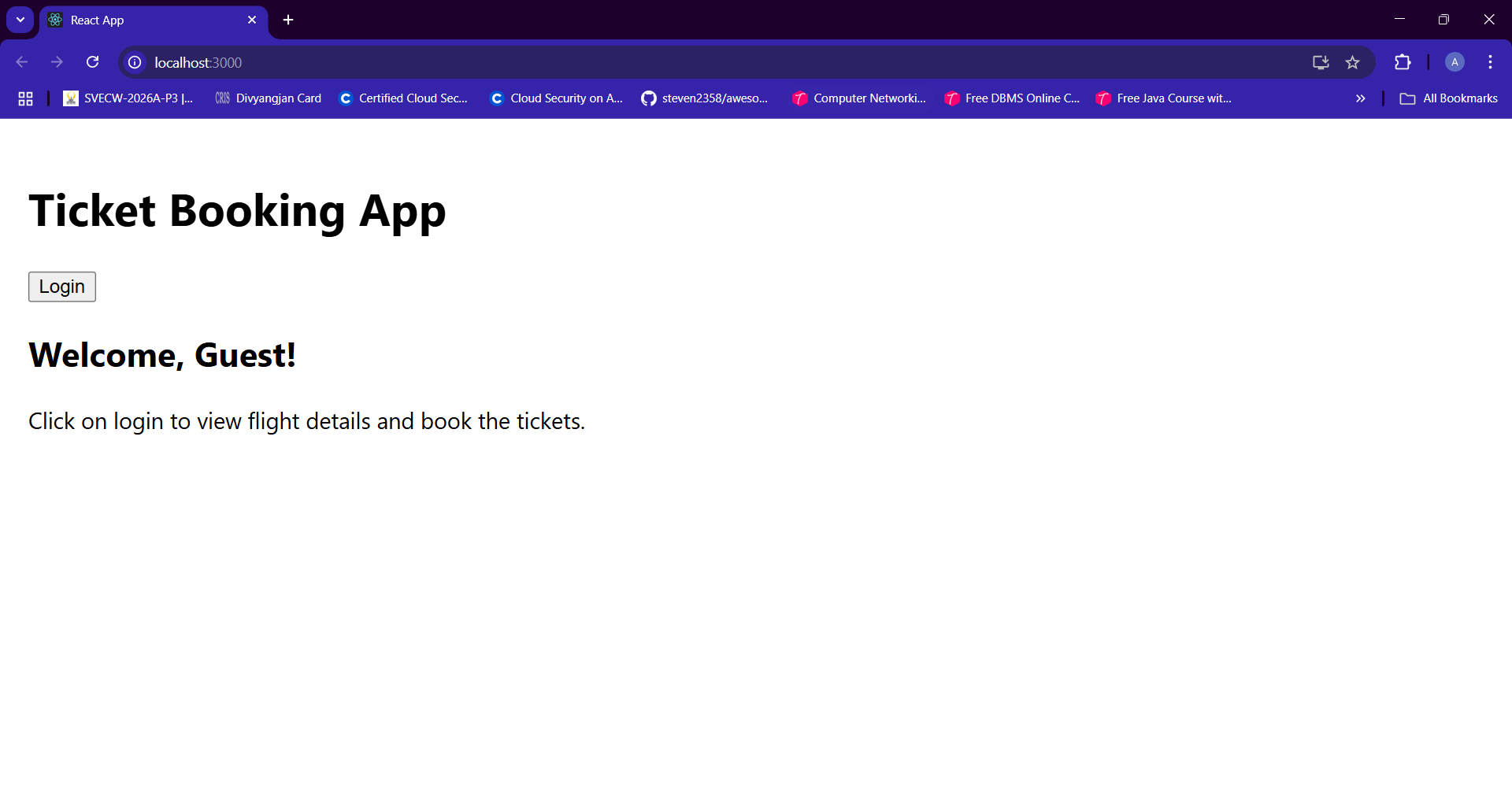
**</div>**

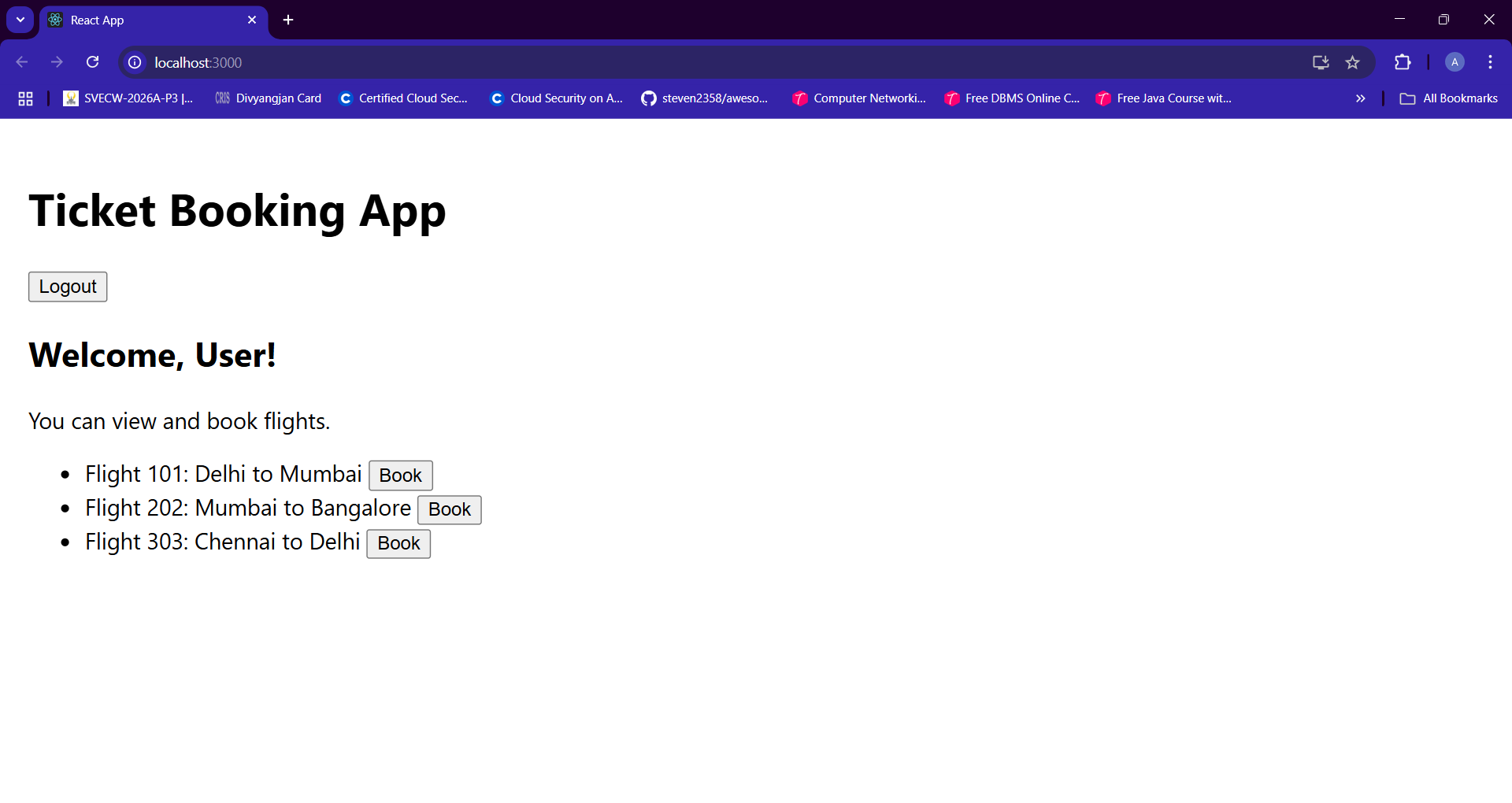
**);**

**}**

**export default UserPage;**

**Output:**

****

****

**Exercise - 5:**

**Code:**

[**App.js**](http://app.js)

**import React from 'react';**

**import BookDetails from './BookDetails';**

**import BlogDetails from './BlogDetails';**

**import CourseDetails from './CourseDetails';**

**import './App.css';**

**function App() {**

**return (**

**<div style={{ padding: '20px' }}>**

**<h1 style={{ textAlign: 'center' }}>Blogger App</h1>**

**<div style={{ display: 'flex', justifyContent: 'space-between', alignItems: 'flex-start', gap: '20px' }}>**

**<BookDetails show='true' />**

**<BlogDetails show='true' />**

**<CourseDetails show='true' />**

**</div>**

**</div>**

**);**

**}**

**export default App;**

[**BookDetails.js**](http://bookdetails.js)

**import React from 'react';**

**function BookDetails({ show }) {**

**const books = [**

**{ id: 1, title: "Atomic Habits", author: "James Clear" },**

**{ id: 2, title: "Deep Work", author: "Cal Newport" },**

**{ id: 3, title: "The Alchemist", author: "Paulo Coelho" }**

**];**

**if (!show) return null;**

**return (**

**<div>**

**<h2>Book List</h2>**

**<ul>**

**{books.map(book => (**

**<li key={book.id}>**

**<strong>{book.title}</strong> by {book.author}**

**</li>**

**))}**

**</ul>**

**</div>**

**);**

**}**

**export default BookDetails;**

[**BlogDetails.js**](http://blogdetails.js)

**import React from 'react';**

**function BlogDetails({ show }) {**

**const blogs = [**

**{ id: 1, title: "React Hooks", author: "Dan Abramov" },**

**{ id: 2, title: "JSX Tips", author: "Sophie Alpert" }**

**];**

**return (**

**show ? (**

**<div>**

**<h2>Blog Posts</h2>**

**<ul>**

**{blogs.map(blog => (**

**<li key={blog.id}>**

**<strong>{blog.title}</strong> by {blog.author}**

**</li>**

**))}**

**</ul>**

**</div>**

**) : null**

**);**

**}**

**export default BlogDetails;**

[**CourseDetails.js**](http://coursedetails.js)

**import React from 'react';**

**function CourseDetails({ show }) {**

**const courses = [**

**{ id: 1, name: "ReactJS Basics", duration: "4 weeks" },**

**{ id: 2, name: "Advanced JavaScript", duration: "6 weeks" }**

**];**

**return (**

**show && (**

**<div>**

**<h2>Courses</h2>**

**<ul>**

**{courses.map(course => (**

**<li key={course.id}>**

**{course.name} - {course.duration}**

**</li>**

**))}**

**</ul>**

**</div>**

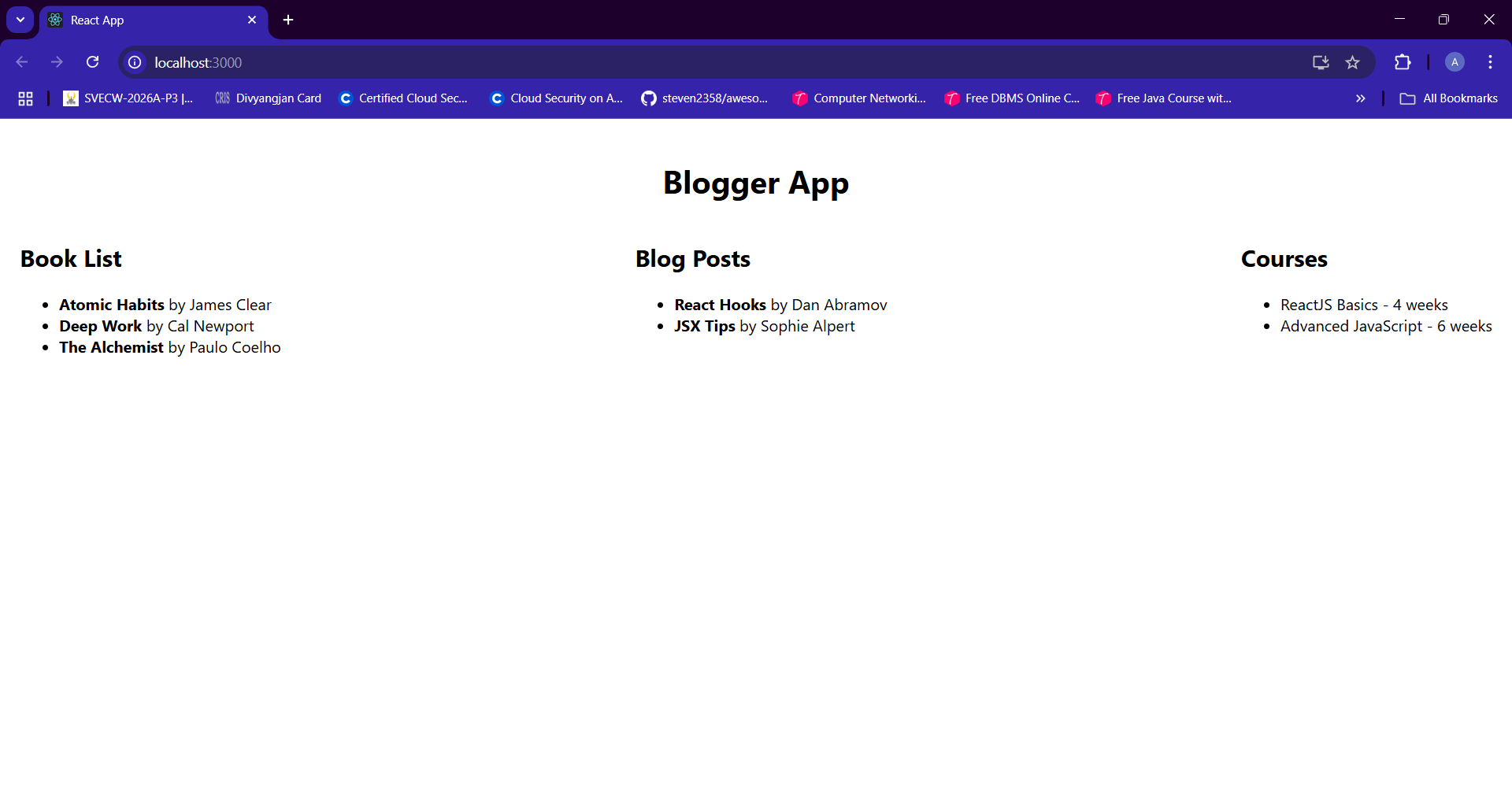
**)**

**);**

**}**

**export default CourseDetails;**

**Output:**

****