

1. ReactJS-HOL:

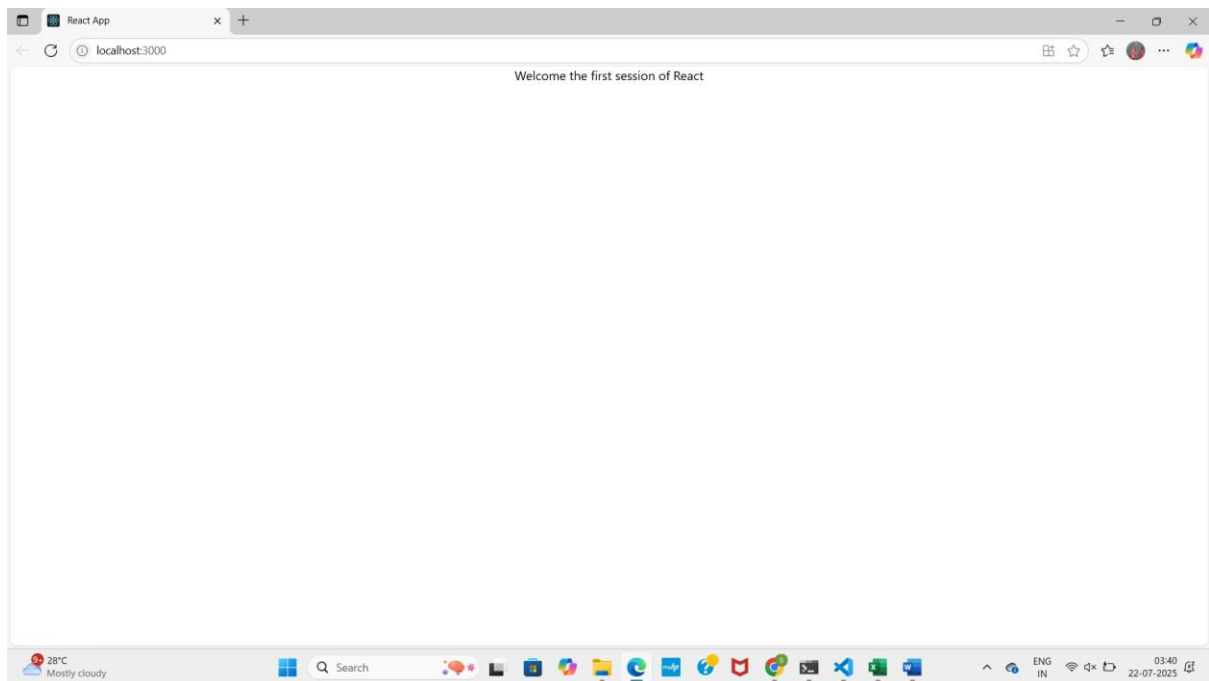
```
import logo from './logo.svg';
import './App.css';

function App() {
  const message = "Welcome the first session of React";

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

export default App;
```

OUTPUT:



2.ReactJS-HOL:

App.js:

```
import React from 'react';
import './App.css';
import Home from './Home';
import About from './About';
import Contact from './contact';

function App() {
```

```
return (  
  <div className="App">  
    <Home />  
    <About />  
    <Contact />  
  </div>  
);  
}
```

```
export default App;
```

About.js:

```
import React from 'react';  
function About() {  
  return <h2>Welcome to the About page of the Student Management Portal</h2>;  
}
```

```
export default About;
```

Contact.js:

```
import React from 'react';  
function Contact() {  
  return <h2>Welcome to the Contact page of the Student Management Portal</h2>;  
}
```

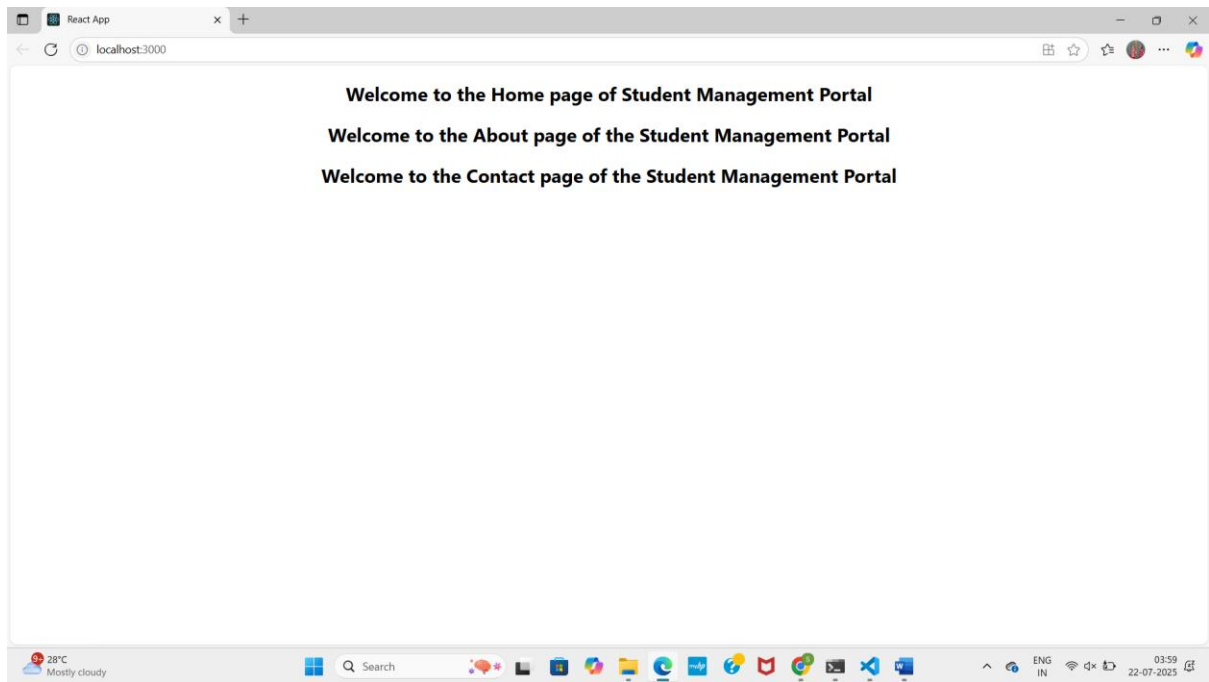
```
export default Contact;
```

Home.js:

```
import React from 'react';  
function Home() {  
  return <h2>Welcome to the Home page of Student Management Portal</h2>;  
}
```

```
export default Home;
```

OUTPUT:



3.ReactJS-HOL:

calculateScore.js:

```
import React from 'react';
import '../Stylesheets/mystyle.css';
function CalculateScore() {
  const name = "Steeve";
  const school = "DNV Public School";
  const total = 284;
  const goal = 300;
  const score = ((total / goal) * 100).toFixed(2);
  return (
    <div className="details-box">
      <h1 className="main-heading">Student Details:</h1>
      <p><strong className="label">Name:</strong> <span className="name">{name}</span></p>
      <p><strong className="label">School:</strong> <span
        className="school">{school}</span></p>
      <p><strong className="label">Total:</strong> <span
        className="total">{total}</span>Marks</p>
      <p><strong className="label">Score:</strong> <span className="score">{score}%</span></p>
    </div> );
```

```
}  
  
export default CalculateScore;
```

mystyle.css:

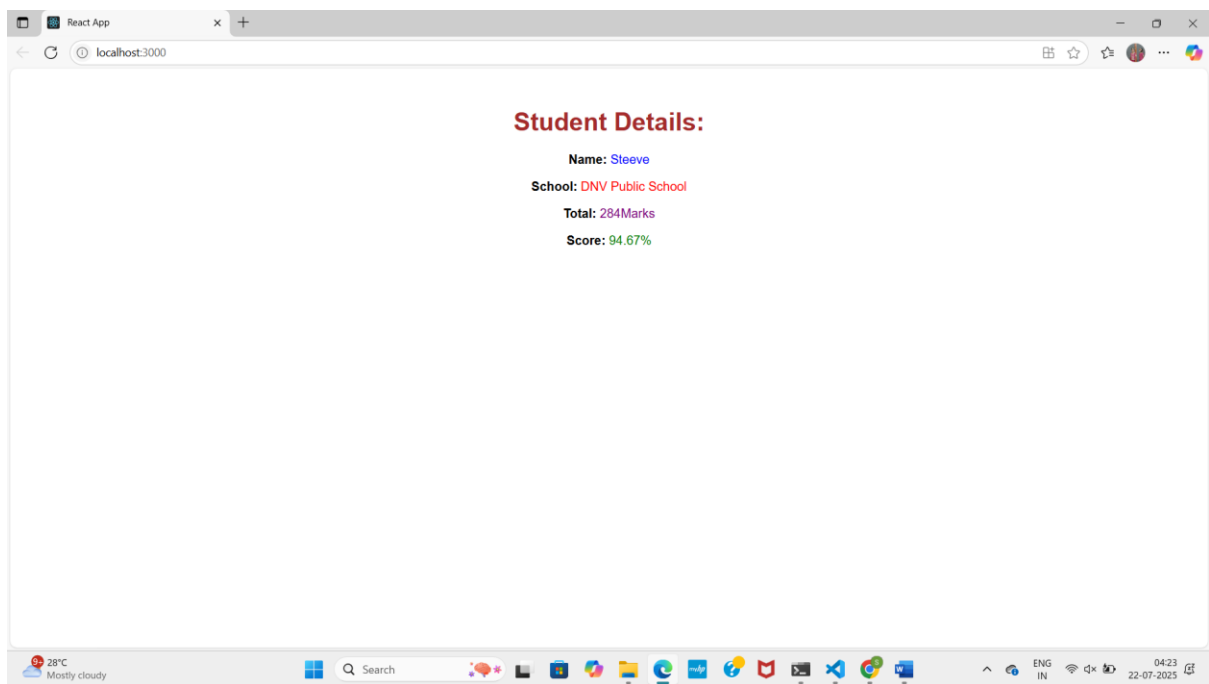
```
.details-box {  
  text-align: center;  
  margin-top: 50px;  
  font-family: Arial, sans-serif;  
}  
  
.main-heading {  
  color: brown;  
}  
  
.label {  
  font-weight: bold;  
}  
  
.name {  
  color: blue;  
}  
  
.school {  
  color: red;  
}  
  
.total {  
  color: purple;  
}  
  
.score {  
  color: green;  
}
```

App.js:

```
import React from 'react';  
  
import './App.css';  
  
import CalculateScore from './Components/calculatescore';
```

```
function App() {
  return (
    <div className="App">
      <CalculateScore />
    </div>
  );
}
export default App;
```

OUTPUT:



4.ReactJS-HOL:

Post.js:

```
import React from 'react';
class Post extends React.Component {
  render() {
    const { title, body } = this.props;
    return (
      <div style={{ border: '1px solid gray', margin: '10px', padding: '10px' }}>
        <h3>{title}</h3>
        <p>{body}</p>
      </div>
    );
  }
}
```

```
    </div>

    );
  }
}

export default Post;
```

Posts.js:

```
import React from 'react';
import Post from './Post';

class Posts extends React.Component {

  constructor(props) {

    super(props);

    this.state = {

      posts: [],

      error: null

    };

  }

  loadPosts = () => {

    fetch('https://jsonplaceholder.typicode.com/posts')

    .then(response => {

      if (!response.ok) {

        throw new Error('Failed to fetch posts');

      }

      return response.json();

    })

    .then(data => this.setState({ posts: data }))

    .catch(error => this.setState({ error }));

  };

  componentDidMount() {

    this.loadPosts();

  }

  componentDidCatch(error, info) {
```

```

    alert("An error occurred in Posts component: " + error.message);
  }
  render() {
    const { posts, error } = this.state;
    if (error) {
      return <p style={{ color: 'red' }}>Error loading posts: {error.message}</p>;
    }
    return (
      <div>
        <h2>All Blog Posts</h2>
        {posts.map(post => (
          <Post key={post.id} title={post.title} body={post.body} />
        ))}
      </div>
    );
  }
}
export default Posts;

```

App.js:

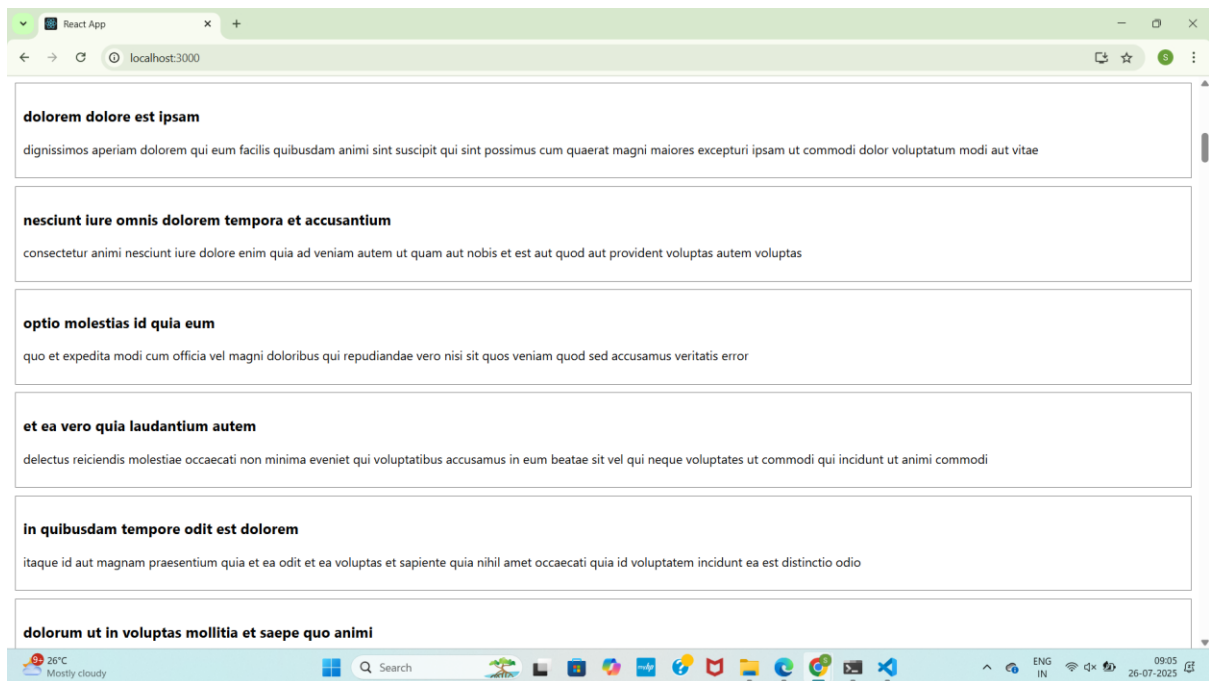
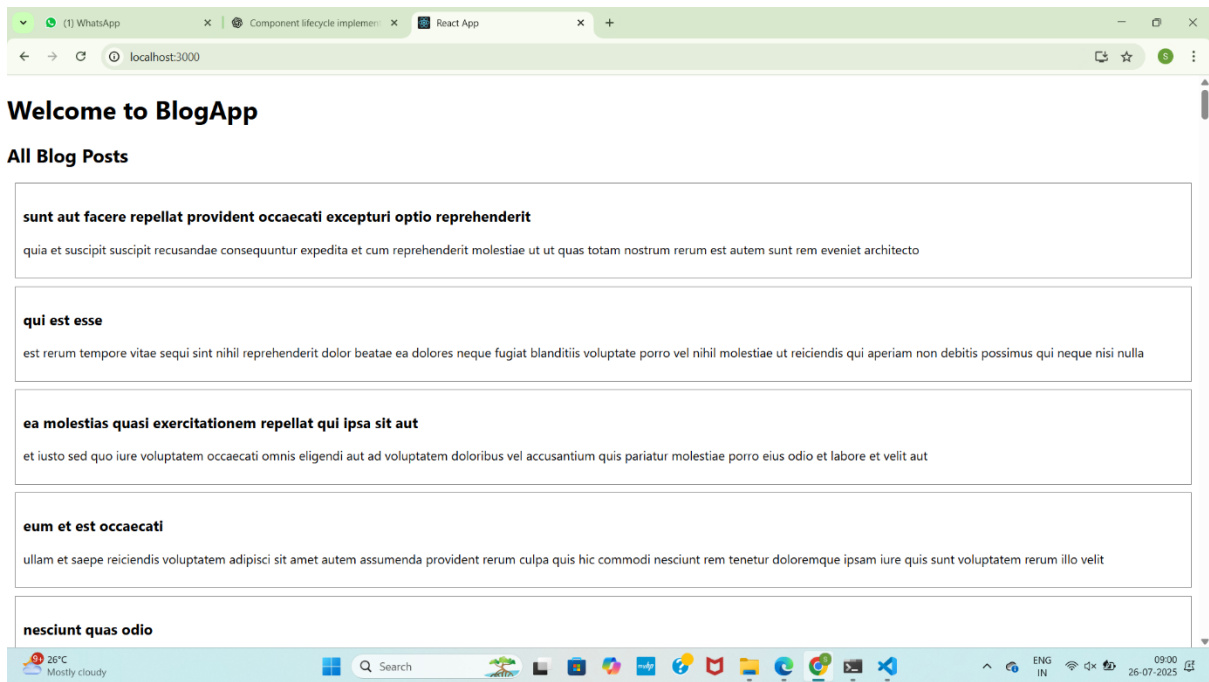
```

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

function App() {
  return (
    <div className="App">
      <h1>Welcome to BlogApp</h1>
      <Posts />
    </div>
  );
}
export default App;

```

OUTPUT:



5.ReactJS-HOL:

CohortDetails.js:

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

```
import styles from './CohortDetails.module.css';
```

```
const CohortDetails = ({ name, startDate, endDate, status }) => {
```

```
  const statusStyle = {
```



```

    color: status === 'ongoing' ? 'green' : 'blue'
  };
  return (
    <div className={styles.box}>
      <h3 style={statusStyle}>{name}</h3>
      <dl>
        <dt>Start Date:</dt>
        <dd>{startDate}</dd>
        <dt>End Date:</dt>
        <dd>{endDate}</dd>
        <dt>Status:</dt>
        <dd>{status}</dd>
      </dl>
    </div>
  );
};

```

export default CohortDetails;

CohortDetails.modules.css:

```

.box {
  width: 300px;
  display: inline-block;
  margin: 10px;
  padding: 10px 20px;
  border: 1px solid black;
  border-radius: 10px;
}

dt {
  font-weight: 500;
}

```

App.js

```

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

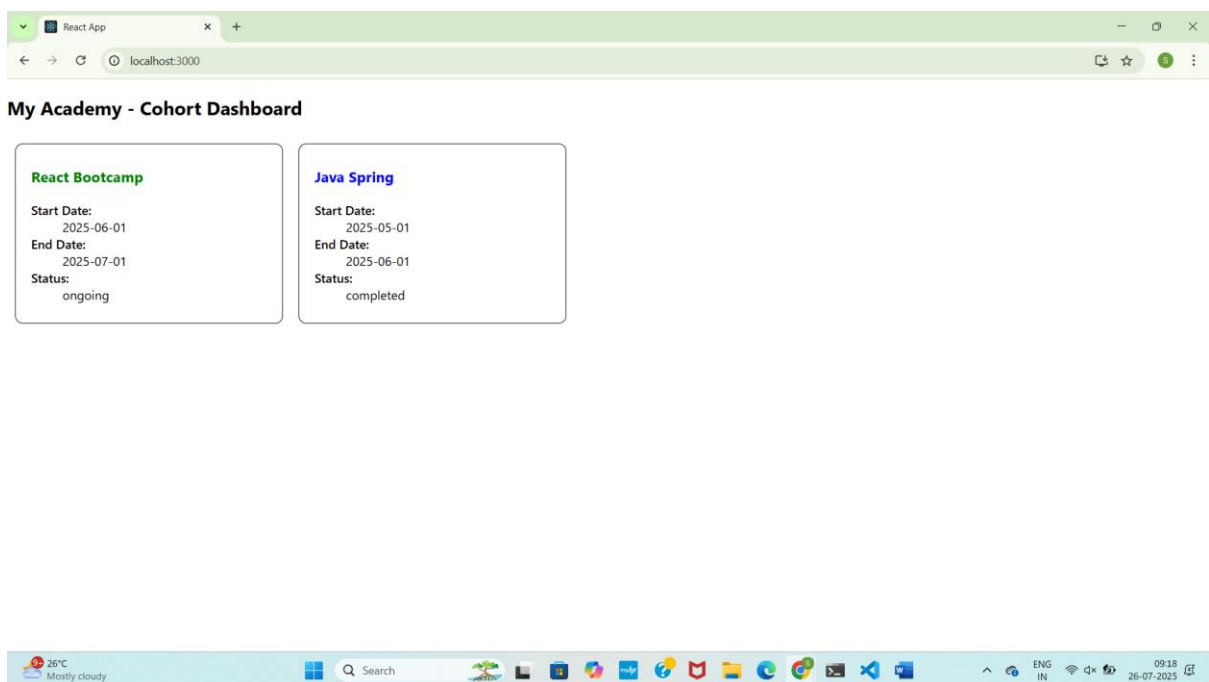
```

```

function App() {
  return (
    <div className="App">
      <h2>My Academy - Cohort Dashboard</h2>
      <CohortDetails
        name="React Bootcamp"
        startDate="2025-06-01"
        endDate="2025-07-01"
        status="ongoing" />
      <CohortDetails
        name="Java Spring"
        startDate="2025-05-01"
        endDate="2025-06-01"
        status="completed"/>
    </div>
  );
}
export default App;

```

OUTPUT:



6.ReactJS-HOL:

trainer.js:

```
class Trainer {  
  constructor(trainerId, name, email, phone, technology, skills) {  
    this.trainerId = trainerId;  
    this.name = name;  
    this.email = email;  
    this.phone = phone;  
    this.technology = technology;  
    this.skills = skills;  
  }  
}  
  
export default Trainer;
```

TrainersMock.js:

```
import Trainer from './trainer';  
  
const trainers = [  
  new Trainer(1, "Steeve", "steeve@mail.com", "9999999999", "Java", "Core Java, Spring"),  
  new Trainer(2, "Monica", "monica@mail.com", "8888888888", "Python", "Django, Flask"),  
  new Trainer(3, "Kumar", "kumar@mail.com", "7777777777", "JavaScript", "React, Node.js")  
];  
  
export default trainers;
```

Home.js:

```
import React from 'react';  
  
const Home = () => {  
  return (  
    <div>  
      <h2>Welcome to Cognizant Academy Trainer Portal</h2>  
      <p>This portal helps you explore trainer expertise and details.</p>  
    </div>  
  );  
};  
  
export default Home;
```

TrainerList.js:

```
import React from 'react';
import { Link } from 'react-router-dom';
const TrainerList = ({ trainers }) => {
  return (
    <div>
      <h2>Trainer List</h2>
      <ul>
        {trainers.map(trainer => (
          <li key={trainer.trainerId}>
            <Link to={`/${trainer.trainerId}`}>{trainer.name}</Link>
          </li>
        ))}
      </ul>
    </div>
  );
};
export default TrainerList;
```

TrainerDetails.js:

```
import React from 'react';
import { useParams } from 'react-router-dom';
import trainers from './TrainersMock';
const TrainerDetails = () => {
  const { id } = useParams();
  const trainer = trainers.find(t => t.trainerId === parseInt(id));
  if (!trainer) {
    return <p>Trainer not found!</p>;
  }
  return (
    <div>
      <h2>Trainer Details</h2>
```

```

    <p><strong>Name:</strong> {trainer.name}</p>
    <p><strong>Email:</strong> {trainer.email}</p>
    <p><strong>Phone:</strong> {trainer.phone}</p>
    <p><strong>Technology:</strong> {trainer.technology}</p>
    <p><strong>Skills:</strong> {trainer.skills}</p>
  </div>
);};
export default TrainerDetails;

```

App.js:

```

import React from 'react';
import { BrowserRouter, Routes, Route, Link } from 'react-router-dom';
import Home from './Home';
import TrainerList from './TrainerList';
import TrainerDetails from './TrainerDetails';
import trainers from './TrainersMock';

function App() {
  return (
    <BrowserRouter>
      <div>
        <nav style={{ marginBottom: '20px' }}>
          <Link to="/" style={{ marginRight: '10px' }}>Home</Link>
          <Link to="/trainers">Trainer List</Link>
        </nav>
        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/trainers" element={<TrainerList trainers={trainers} />} />
          <Route path="/trainer/:id" element={<TrainerDetails />} />
        </Routes>
      </div>
    </BrowserRouter>
  );}

```

```
export default App;
```

index.js:

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

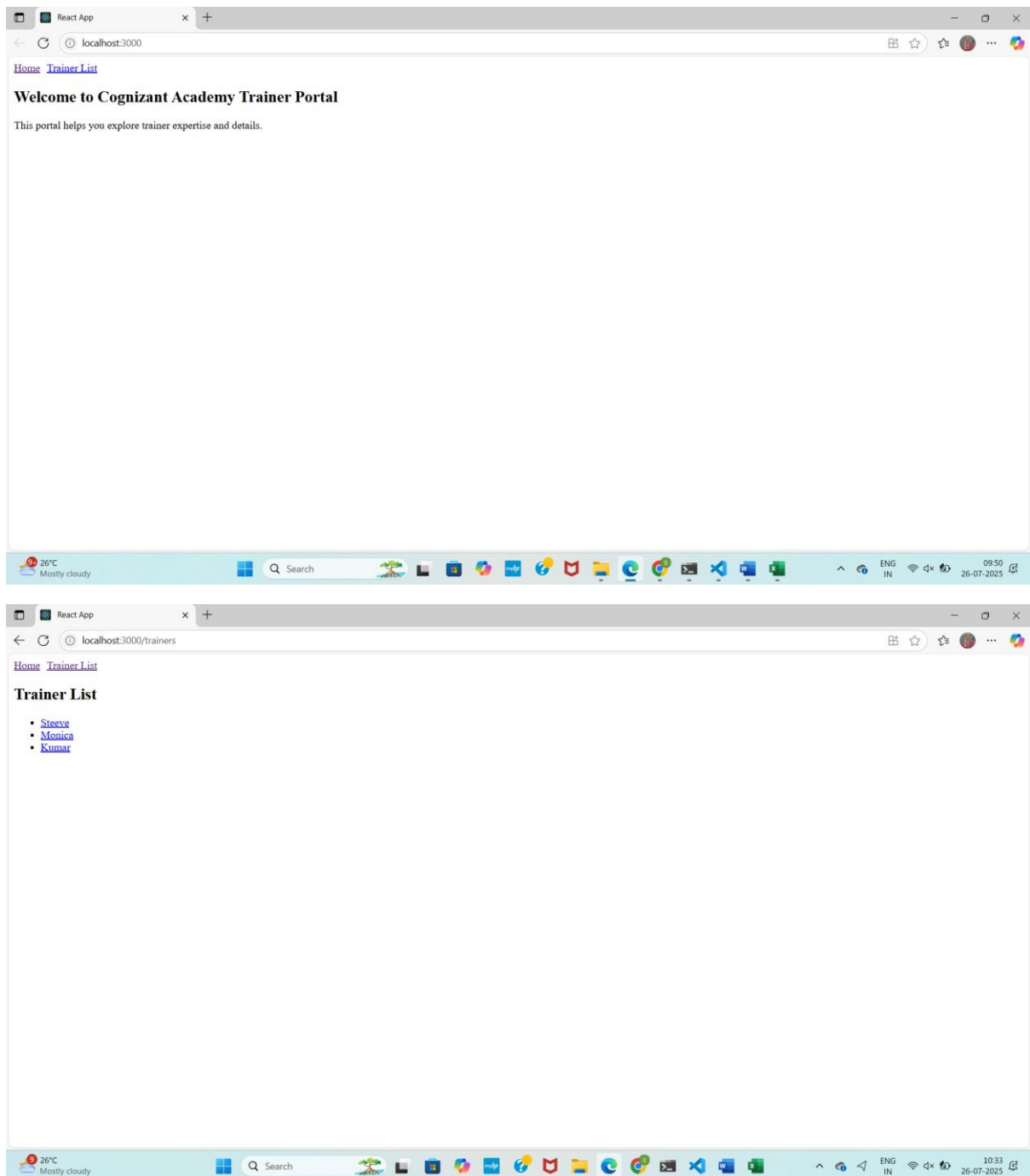
```
import ReactDOM from 'react-dom/client';
```

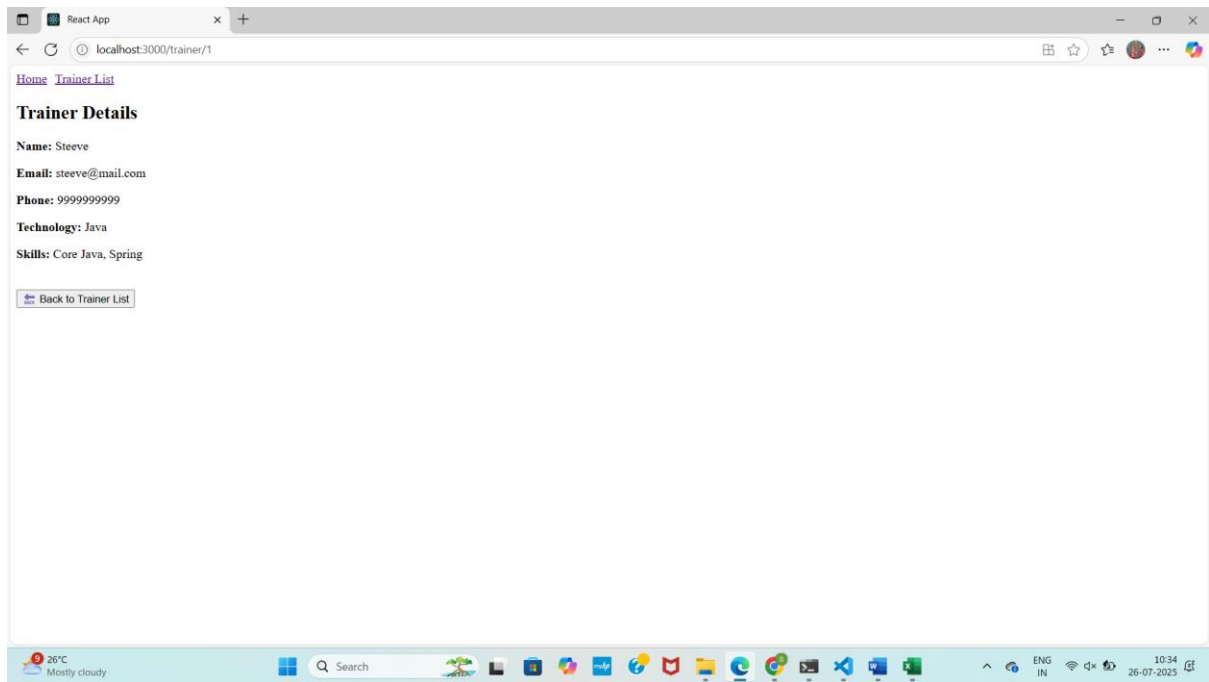
```
import App from './App';
```

```
const root = ReactDOM.createRoot(document.getElementById('root'));
```

```
root.render(<App />);
```

OUTPUT:





7.ReactJS-HOL:

Cart.js:

```
import React from 'react';

class Cart extends React.Component {

  render() {

    return (

      <tr>

        <td>{this.props.itemname}</td>

        <td>{this.props.price}</td>

      </tr>

    );

  }

}
```

export default Cart;

OnlineShopping.js:

```
import React from 'react';

import Cart from './Cart';

import './OnlineShopping.css';
```

```
class OnlineShopping extends React.Component {  
  constructor(props) {  
    super(props);  
    this.items = [  
      { itemname: 'Laptop', price: 80000 },  
      { itemname: 'TV', price: 120000 },  
      { itemname: 'Washing Machine', price: 50000 },  
      { itemname: 'Mobile', price: 30000 },  
      { itemname: 'Fridge', price: 70000 }  
    ];  
  }  
  render() {  
    return (  
      <div className="container">  
        <h2 className="heading">Items Ordered :</h2>  
        <table>  
          <thead>  
            <tr>  
              <th>Name</th>  
              <th>Price</th>  
            </tr>  
          </thead>  
          <tbody>  
            {this.items.map((item, index) => (  
              <Cart key={index} itemname={item.itemname} price={item.price} />  
            ))}  
          </tbody>  
        </table>  
      </div>  
    );  
  }  
}
```



```
}  
  
export default OnlineShopping;
```

OnlineShopping.css:

```
.container {  
  text-align: center;  
  margin-top: 50px;  
}  
  
.heading {  
  color: green;  
  font-weight: bold;  
}  
  
table {  
  margin: 20px auto;  
  border-collapse: collapse;  
  width: 400px;  
  color: green;  
}  
  
th, td {  
  border: 1px solid gray;  
  padding: 10px;  
  text-align: center;  
}  
  
th {  
  background-color: #f0f0f0;  
  font-weight: bold;  
}
```

App.js:

```
import React from 'react';  
  
import OnlineShopping from './OnlineShopping';  
  
function App() {  
  return (  

```

```

    <div>

      <OnlineShopping />

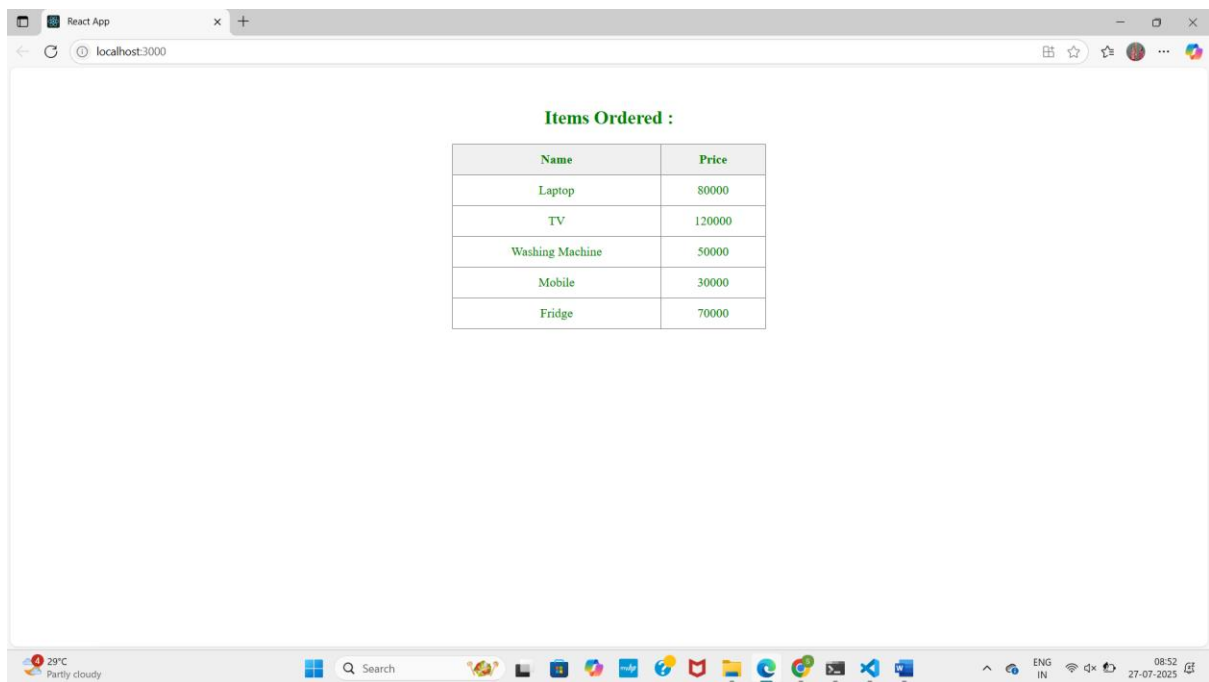
    </div>

  );
}

export default App;

```

OUTPUT:



8.ReactJS-HOL:

CountPeople.js:

```

import React from 'react';
import './CountPeople.css';

class CountPeople extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      entryCount: 0,
      exitCount: 0
    };
  }
}

```

```

updateEntry = () => {
  this.setState(prevState => ({
    entryCount: prevState.entryCount + 1
  }));
};

updateExit = () => {
  this.setState(prevState => ({
    exitCount: prevState.exitCount + 1
  }));
};

render() {
  return (
    <div className="container">
      <div className="block">
        <button onClick={this.updateEntry} className="btn">Login</button>
        <span className="message">{this.state.entryCount} People Entered!!!</span>
      </div>
      <div className="block">
        <button onClick={this.updateExit} className="btn">Exit</button>
        <span className="message">{this.state.exitCount} People Left!!!</span>
      </div>
    </div>
  );
}
}

```

export default CountPeople;

CountPeople.css:

```

.container {
  display: flex;
  justify-content: center;
  margin-top: 100px;
}

```

```
    gap: 100px;
  }
  .block {
    display: flex;
    align-items: center;
    gap: 10px;
  }
  .btn {
    background-color: #e5fbe5;
    border: 1px solid green;
    color: green;
    font-weight: bold;
    padding: 5px 15px;
    border-radius: 5px;
    cursor: pointer;
  }
  .message {
    color: green;
    font-weight: bold;
  }
}
```

App.js:

```
import React from 'react';
import CountPeople from './CountPeople';

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

export default App;
```

OUTPUT:

