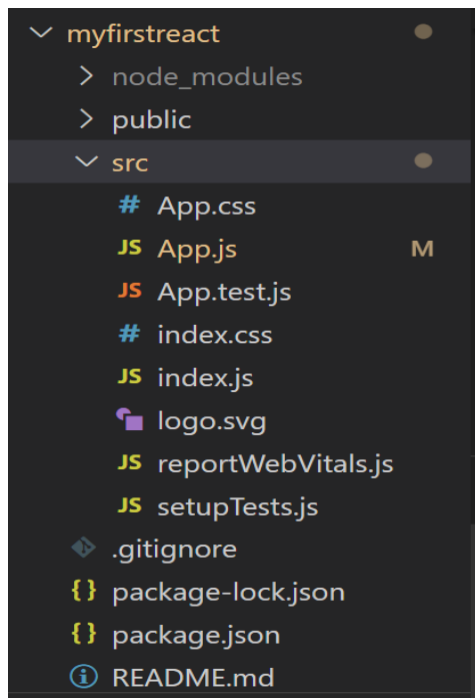


React

Hands On 1 :



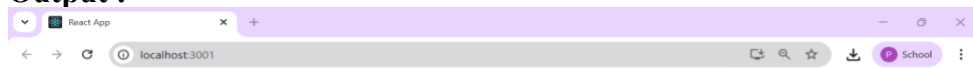
App.js :

```
import React from 'react';

function App() {
  return (
    <div>
      <h1>Welcome to the first session of React</h1>
    </div>
  );
}

export default App;
```

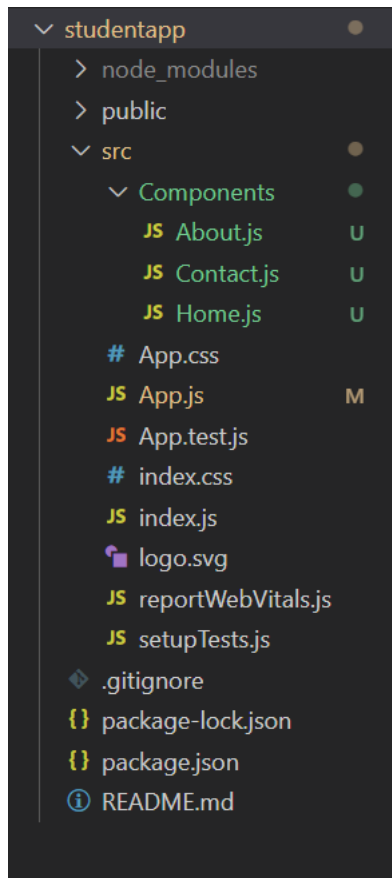
Output :



Welcome to the first session of React



Hands On 2 :



About.js :

```
function About() {  
  return (  
    <div>  
      <h2>Welcome to the About page of the Student Management Portal</h2>  
    </div>  
  );  
}  
  
export default About;
```

Home.js :

```
function Home() {  
  return (  
    <div>  
      <h2>Welcome to the Home page of Student Management Portal</h2>  
    </div>  
  );  
}  
  
export default Home;
```

Contact.js:

```
function Contact() {  
  return (  
    <div>  
      <h2>Welcome to the Contact page of the Student Management Portal</h2>  
    </div>  
  );  
}
```

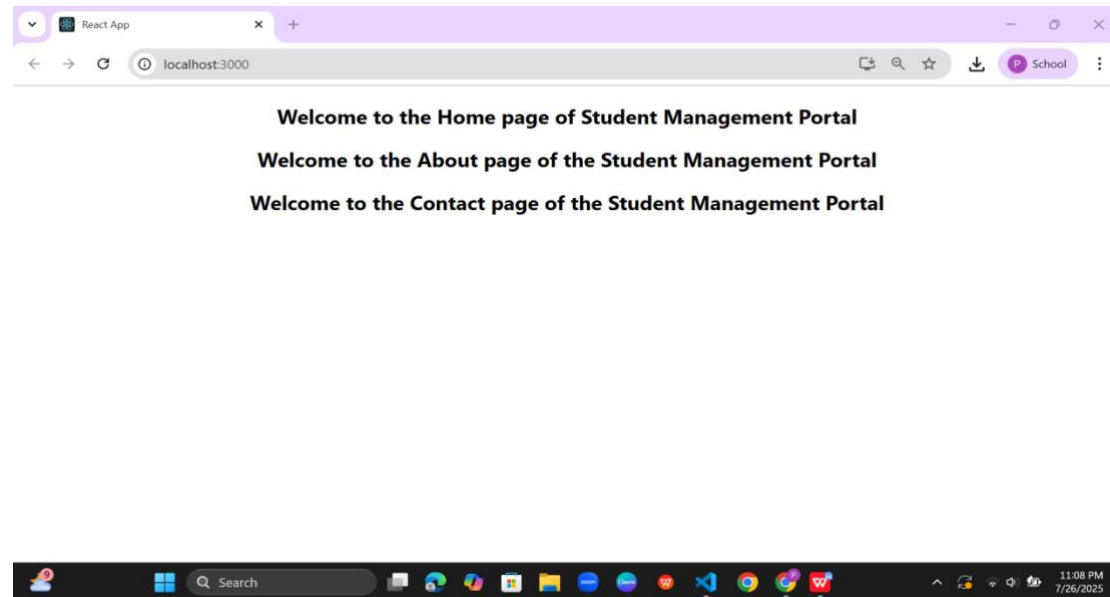
```
export default Contact;
```

App.js :

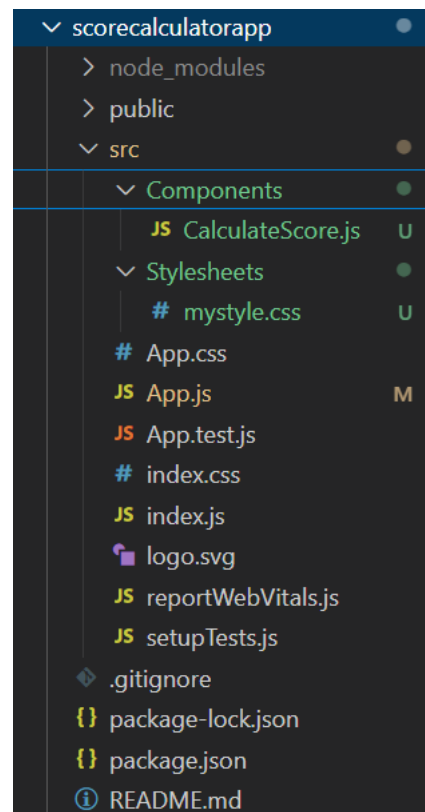
```
import './App.css';  
import About from './Components/About';  
import Contact from './Components/Contact';  
import Home from './Components/Home';  
  
function App() {  
  return (  
    <div className="App">  
      <Home />  
      <About />  
      <Contact />  
    </div>  
  );  
}
```

```
export default App;
```

Output :



Hands On 3 :



Calculator.js :

```
function CalculateScore(props) {
  const { name, school, total, goal } = props;
  const average = (total / goal).toFixed(2);

  return (
    <div className="score-card">
      <h2>Student Score Report</h2>
      <p><strong>Name:</strong> {name}</p>
      <p><strong>School:</strong> {school}</p>
      <p><strong>Total Score:</strong> {total}</p>
      <p><strong>Goal:</strong> {goal}</p>
      <p><strong>Average Score:</strong> {average}</p>
    </div>
  );
}
```

```
export default CalculateScore;
```

mystyle.css :

```
.score-card {
  border: 2px solid #4CAF50;
  border-radius: 10px;
  padding: 20px;
  margin: 30px auto;
  width: 400px;
  background-color: #f9f9f9;
  box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.1);
}

.score-card h2 {
  color: #4CAF50;
  text-align: center;
}
```

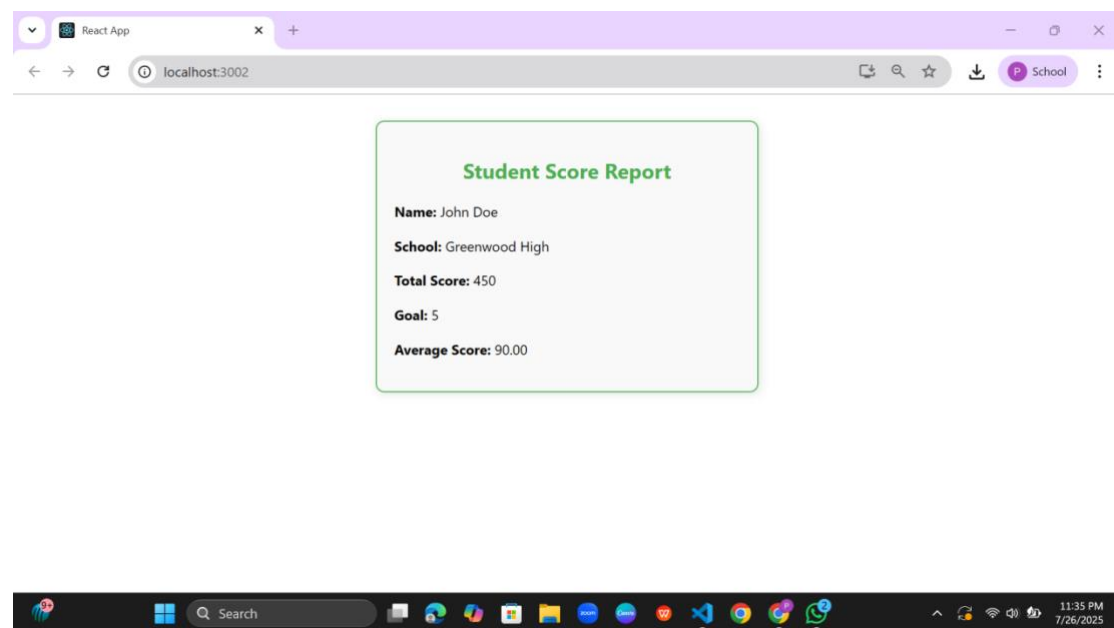
```
.score-card p {  
  font-size: 16px;  
  line-height: 1.5;  
}
```

App.js :

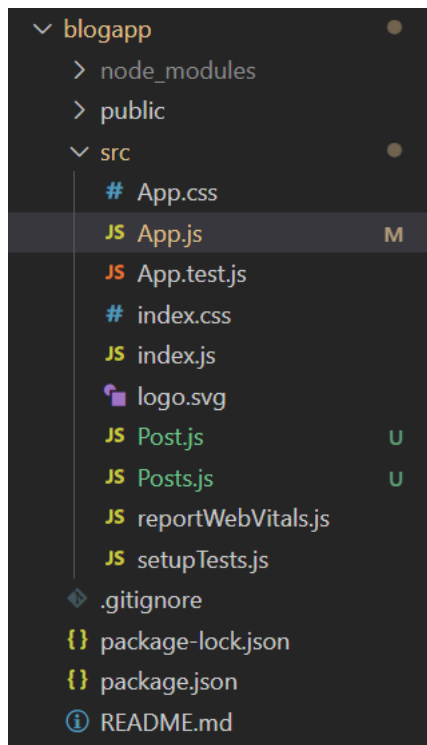
```
import CalculateScore from './Components/CalculateScore';  
import './Stylesheets/mystyle.css';  
  
function App() {  
  return (  
    <div className="App">  
      <CalculateScore  
        name="John Doe"  
        school="Greenwood High"  
        total={450}  
        goal={5}  
      />  
    </div>  
  );  
}
```

```
export default App;
```

Output :



Hands On 4 :



Post.js :

```
// src/Post.js
```

```
class Post {
  constructor(id, title, body) {
    this.id = id;
    this.title = title;
    this.body = body;
  }
}
```

```
export default Post;
```

Posts.js :

```
// src/Posts.js
```

```
import { Component } from "react";
import Post from "./Post";
```

```
class Posts extends Component {
  constructor(props) {
    super(props);
    this.state = {
      posts: [],
    };
  }
}
```

```
loadPosts = async () => {
  try {
    const response = await fetch("https://jsonplaceholder.typicode.com/posts");
    const data = await response.json();
    const postObjects = data.map(
      (p) => new Post(p.id, p.title, p.body)
    );
    this.setState({ posts: postObjects });
  }
}
```

```

    } catch (error) {
      throw error;
    }
  };

```

```

componentDidMount() {
  this.loadPosts();
}

```

```

componentDidCatch(error, info) {
  alert("An error occurred: " + error);
}

```

```

render() {
  return (
    <div>
      <h1>Blog Posts</h1>
      {this.state.posts.map((post) => (
        <div key={post.id}>
          <h2>{post.title}</h2>
          <p>{post.body}</p>
          <hr />
        </div>
      ))}
    </div>
  );
}
}

```

```
export default Posts;
```

App.js :

```
// src/App.js
```

```
import Posts from "../Posts";
```

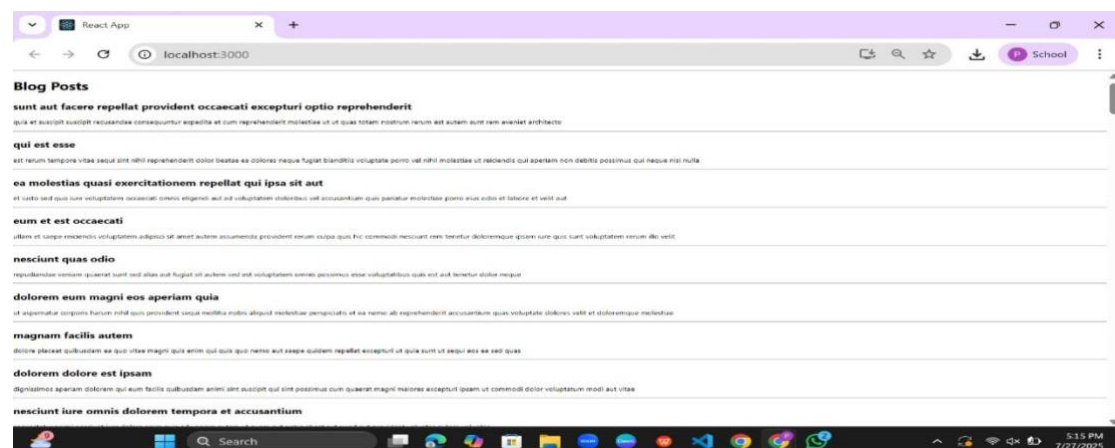
```

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

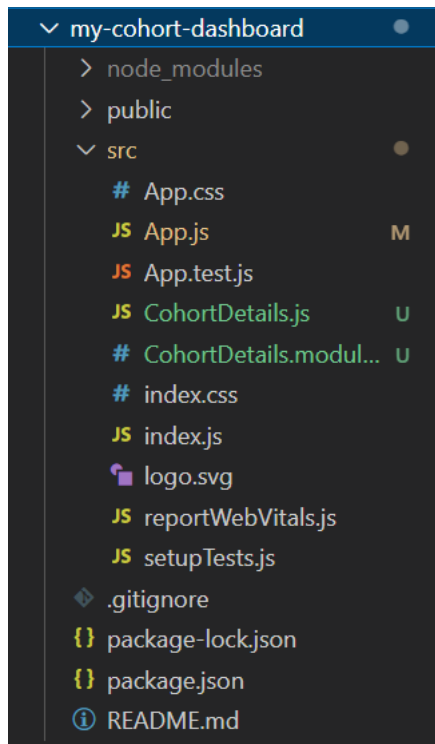
```

```
export default App;
```

Output :



Hands On 5 :



CohortDetails.js :

```
// src/CohortDetails.js

import styles from "../CohortDetails.module.css";

function CohortDetails(props) {
  const { name, status, startDate, endDate } = props;

  const statusColor = status === "ongoing" ? "green" : "blue";

  return (
    <div className={styles.box}>
      <h3 style={{ color: statusColor }}>{name}</h3>
      <dl>
        <dt>Status:</dt>
        <dd>{status}</dd>
        <dt>Start Date:</dt>
        <dd>{startDate}</dd>
        <dt>End Date:</dt>
        <dd>{endDate}</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 :

```
// src/App.js
```

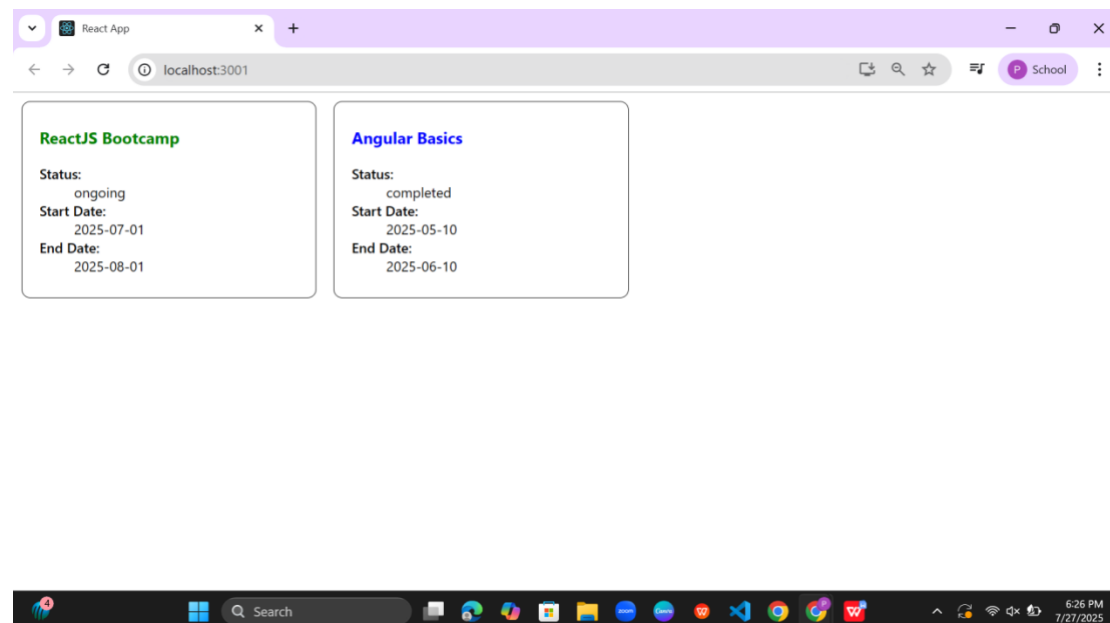
```
import CohortDetails from "../CohortDetails";
```

```
function App() {  
  const cohorts = [  
    {  
      name: "ReactJS Bootcamp",  
      status: "ongoing",  
      startDate: "2025-07-01",  
      endDate: "2025-08-01",  
    },  
    {  
      name: "Angular Basics",  
      status: "completed",  
      startDate: "2025-05-10",  
      endDate: "2025-06-10",  
    },  
  ],  
};
```

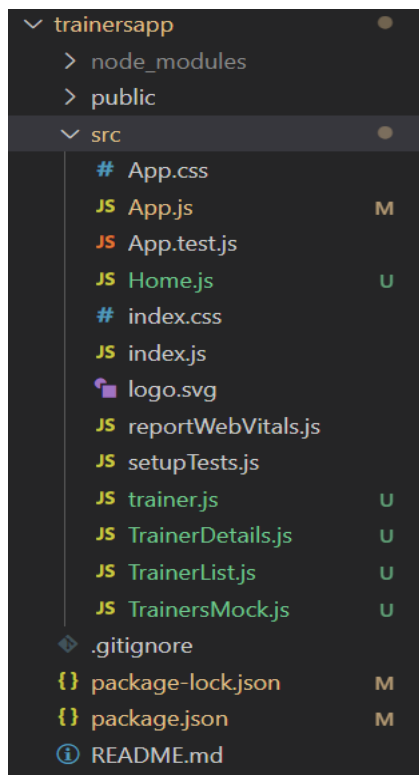
```
return (  
  <div className="App">  
    {cohorts.map((cohort, index) => (  
      <CohortDetails key={index} {...cohort} />  
    ))}  
  </div>  
);  
}
```

```
export default App;
```

Output :



Hands On 6 :



App.js :

```
import { Link, Route, BrowserRouter as Router, Routes } from "react-router-dom";
import Home from "./Home";
import TrainerDetail from "./TrainerDetails";
import TrainersList from "./TrainerList";
import trainers from "./TrainersMock";

function App() {
  return (
    <Router>
      <div>
        <nav style={{ marginBottom: "20px" }}>
          <Link to="/" style={{ marginRight: "10px" }}>Home</Link>
          <Link to="/trainers">Trainers</Link>
        </nav>
        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/trainers" element={<TrainersList trainers={trainers} />} />
          <Route path="/trainer/:id" element={<TrainerDetail />} />
        </Routes>
      </div>
    </Router>
  );
}
```

```
export default App;
```

Home.js :

```
const Home = () => {
  return (
    <div>
      <h2>Welcome to TrainersApp</h2>
      <p>Select "Trainers" from the menu to view the trainer list.</p>
    </div>
  );
}
```

```
);  
};
```

```
export default Home;
```

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;
```

TrainerDetails.js :

```
import { useParams } from "react-router-dom";  
import trainers from "../TrainersMock";  
  
const TrainerDetail = () => {  
  const { id } = useParams();  
  const trainer = trainers.find(t => t.trainerId.toString() === id);
```

```
  if (!trainer) {  
    return <p>Trainer not found.</p>;  
  }
```

```
  return (  
    <div>  
      <h2>Trainer Details</h2>  
      <p><strong>ID:</strong> {trainer.trainerId}</p>  
      <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.join(", ")}</p>  
    </div>  
  );  
};
```

```
export default TrainerDetail;
```

TrainerList.js :

```
import { Link } from "react-router-dom";  
  
const TrainersList = ({ trainers }) => {  
  return (  
    <div>  
      <h2>Trainers List</h2>  
      <ul>  
        {trainers.map((trainer) => (  
          <li key={trainer.trainerId}>  
            <Link to={`/${trainer}/${trainer.trainerId}`}>{trainer.name}</Link>  
          </li>  
        ))}  
      </ul>  
    </div>  
  );  
};
```

```
export default TrainersList;
```

TrainersMock.js :

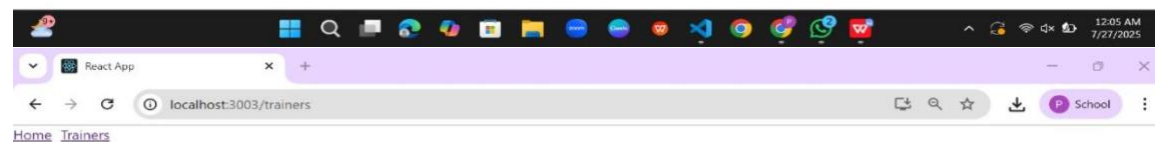
```
const trainers = [
  {
    trainerId: 1,
    name: "John Doe",
    email: "john.doe@example.com",
    phone: "123-456-7890",
    technology: "React",
    skills: ["JavaScript", "React", "Redux"]
  },
  {
    trainerId: 2,
    name: "Jane Smith",
    email: "jane.smith@example.com",
    phone: "987-654-3210",
    technology: "Angular",
    skills: ["TypeScript", "Angular", "RxJS"]
  },
  {
    trainerId: 3,
    name: "Bob Johnson",
    email: "bob.johnson@example.com",
    phone: "555-123-4567",
    technology: "Vue",
    skills: ["JavaScript", "Vue", "Vuex"]
  }
];

export default trainers;
```

Output :

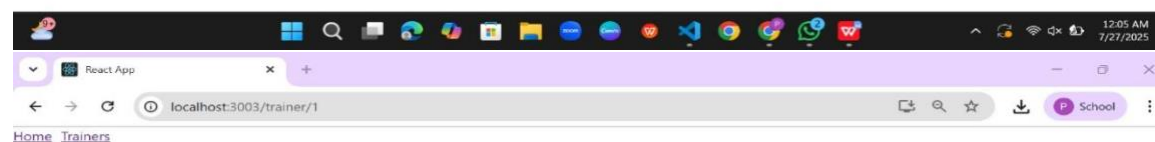


Select "Trainers" from the menu to view the trainer list.



Trainers List

- [John Doe](#)
- [Jane Smith](#)
- [Bob Johnson](#)



Trainer Details

ID: 1

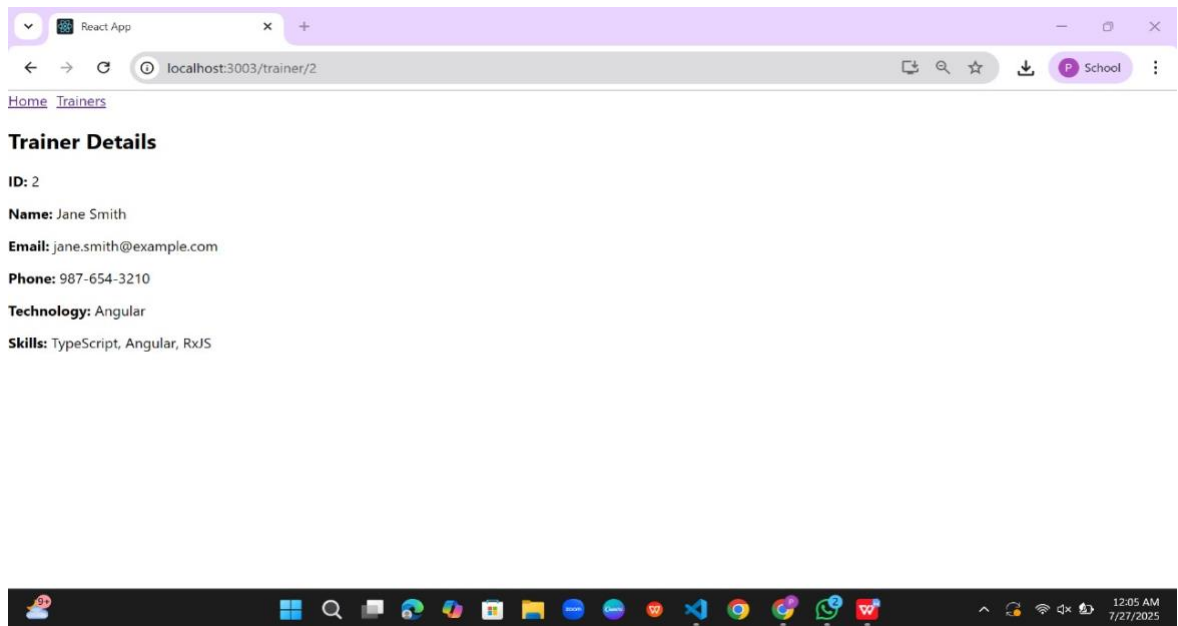
Name: John Doe

Email: john.doe@example.com

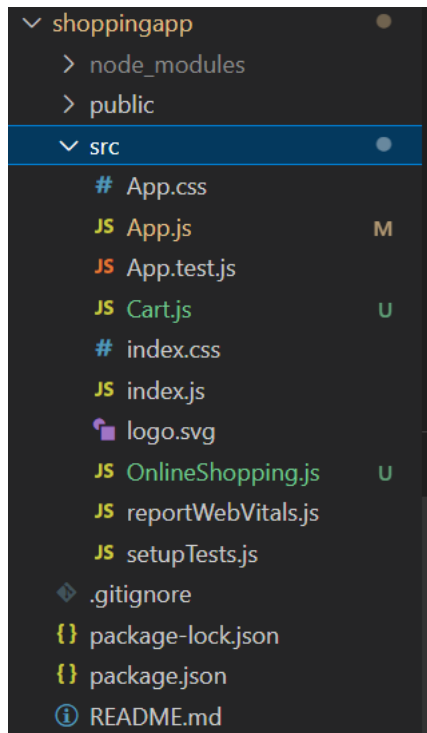
Phone: 123-456-7890

Technology: React

Skills: JavaScript, React, Redux



Hands On 7 :



Cart.js :

```
import { Component } from 'react';

class Cart extends Component {
  render() {
    const cardStyle = {
      backgroundColor: '#f0f8ff',
      margin: '10px auto',
      padding: '15px 20px',
      borderRadius: '12px',
      boxShadow: '0 4px 8px rgba(0, 0, 0, 0.1)',
      maxWidth: '400px',
    };

    const itemStyle = {
      fontSize: '1.2rem',
      fontWeight: 'bold',
      color: '#333',
    };

    const priceStyle = {
      fontSize: '1rem',
      color: '#555',
    };

    return (
      <div style={cardStyle}>
        <div style={itemStyle}>{this.props.itemname}</div>
        <div style={priceStyle}>Price: ₹{this.props.price}</div>
      </div>
    );
  }
}

export default Cart;
```

OnlineShopping.js :

```
import { Component } from 'react';
import Cart from './Cart';

class OnlineShopping extends Component {
  render() {
    const containerStyle = {
      fontFamily: 'Segoe UI, sans-serif',
      backgroundColor: '#e6f2ff',
      minHeight: '100vh',
      padding: '20px',
      textAlign: 'center',
    };
  }
}
```

```
const headingStyle = {
  fontSize: '2rem',
  color: '#003366',
  marginBottom: '30px',
};
```

```
const items = [
  { itemname: 'Wireless Mouse', price: 799 },
  { itemname: 'Keyboard', price: 1199 },
  { itemname: 'Laptop Stand', price: 1499 },
  { itemname: 'USB-C Cable', price: 299 },
  { itemname: 'Headphones', price: 1999 },
];
```

```
return (
  <div style={containerStyle}>
    <h1 style={headingStyle}><img alt="Shopping Cart icon" data-bbox="418 423 433 433"/> Welcome to Online Shopping</h1>
    {items.map((item, index) => (
      <Cart key={index} itemname={item.itemname} price={item.price} />
    ))}
  </div>
);
}
```

```
export default OnlineShopping;
```

App.js :

```
import OnlineShopping from './OnlineShopping';

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

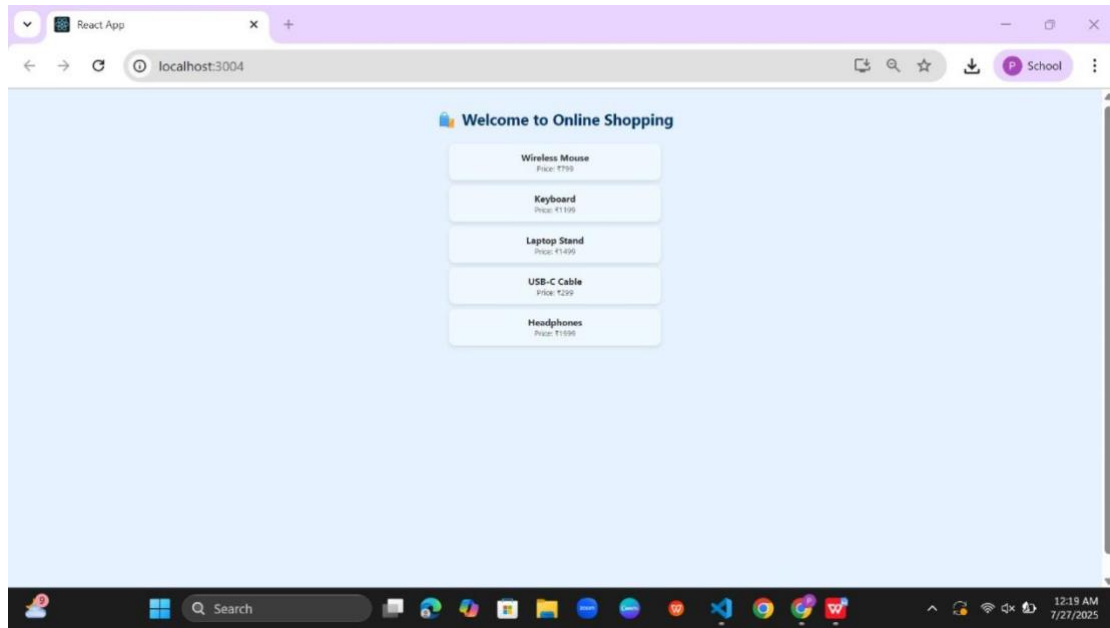
```
export default App;
```

```
import OnlineShopping from './OnlineShopping';

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

```
export default App;
```

Output :



Complete VS code structure :

