# ReactJS Hands-On Lab - Solutions

## 1. Creating the React App

Run the following command to create the React app:  
npx create-react-app TrainersApp  
cd TrainersApp  
code .

## 2. Defining Trainer Class (trainer.js)

Inside src/trainer.js:  
export 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;  
 }  
}

## 3. Mock Data (TrainersMock.js)

Inside src/TrainersMock.js:  
export const Trainers = [  
 { trainerId: 1, name: "John Doe", email: "john@example.com", phone: "1234567890", technology: "React", skills: ["Hooks", "Router"] },  
 { trainerId: 2, name: "Jane Smith", email: "jane@example.com", phone: "0987654321", technology: "Angular", skills: ["RxJS", "Routing"] }  
];

## 4. Installing React Router

Run the following command in terminal:  
npm install react-router-dom

## 5. TrainersList Component (TrainerList.js)

Inside src/TrainerList.js:  
import { Link } from 'react-router-dom';  
  
export function 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>  
 );  
}

## 6. Home Component (Home.js)

Inside src/Home.js:  
export function Home() {  
 return <h2>Welcome to Trainers App</h2>;  
}

## 7. App Component with Routing (App.js)

Inside src/App.js:  
import { BrowserRouter, Routes, Route, Link } from 'react-router-dom';  
import { Home } from './Home';  
import { TrainersList } from './TrainerList';  
import { TrainerDetail } from './TrainerDetails';  
import { Trainers } from './TrainersMock';  
  
function App() {  
 return (  
 <BrowserRouter>  
 <nav>  
 <Link to="/">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>  
 </BrowserRouter>  
 );  
}  
  
export default App;

## 8. TrainerDetail Component (TrainerDetails.js)

Inside src/TrainerDetails.js:  
import { useParams } from 'react-router-dom';  
import { Trainers } from './TrainersMock';  
  
export function TrainerDetail() {  
 const { id } = useParams();  
 const trainer = Trainers.find(t => t.trainerId === parseInt(id));  
  
 if (!trainer) return <div>Trainer not found</div>;  
  
 return (  
 <div>  
 <h2>{trainer.name}</h2>  
 <p>Email: {trainer.email}</p>  
 <p>Phone: {trainer.phone}</p>  
 <p>Technology: {trainer.technology}</p>  
 <p>Skills: {trainer.skills.join(", ")}</p>  
 </div>  
 );  
}