# **🛍️ Angular E-Commerce Application**

This is a responsive Angular e-commerce application with authentication (login/signup), product listing, editing, and state management using NgRx.

## **📦 Features**

* 🔐 User Authentication (Login / Signup)
* 📃 View Products (Fetched from API)
* ✏️ Edit / Update Products
* 🗃️ State Management via NgRx
* 💡 Error handling and loading states
* 📱 Responsive design with Bootstrap

## **🚀 Getting Started**

### **1. Clone the repository**

git clone https://github.com/your-username/angular-ecommerce-app.git

cd angular-ecommerce-app

### **2. Install dependencies**

Make sure you have Node.js and Angular CLI installed.

npm install

## **🛠️ Running the Application**

ng serve

Visit the app at:  
 📍<http://localhost:4200>

## **🗃️ Project Structure**

ruby

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src/

├── app/

│ ├── auth/ # Login & Signup

│ ├── products/ # Product components

│ ├── store/ # NgRx store (actions, reducers, effects, selectors)

│ ├── services/ # API interaction

│ ├── models/ # Interfaces for data types

│ └── app-routing.module.ts

│ └── app.module.ts

## **🔄 API Integration**

Make sure the backend API is running or replace the API URL in environment.ts:

export const environment = {

production: false,

apiUrl: 'https://fakestoreapi.com' // Example: Change if needed

};

## **🔑 Authentication Details**

### **Signup Fields:**

* username
* mobile
* email
* password
* confirmPassword

Login credentials are stored in localStorage. A guard protects authenticated routes.

## **🧪 Testing**

You can run tests using:

ng test

For end-to-end testing:

ng e2e

## **📦 Production Build**

ng build --prod

## **📱 Responsiveness**

* Built with **Bootstrap 5** for mobile-first design
* Tested across multiple screen sizes

## **🧯 Error Handling**

* API and form errors are handled globally via NgRx effects and service interceptors.
* Error messages are displayed using Bootstrap alerts.

## **🔐 Route Guards**

* Unauthenticated users are redirected to login.
* Authenticated users are redirected from login/signup to home.

## **🔚 Logout**

Logs out the user by clearing:

* localStorage
* NgRx auth state