

E-Commerce Fullstack App - Spring Boot + Angular

1. Project Overview

A fully functional full-stack e-commerce application built using Spring Boot and Angular.

This application covers all core features of a modern e-commerce platform including user authentication,

product listing, shopping cart, order placement, and PayPal integration.

2. Features

- User Authentication & Authorization (JWT)
- Product Catalog with Categories
- Add to Cart / Remove from Cart
- Secure Checkout with PayPal
- Order Management
- Admin Dashboard
- Mobile-Responsive Angular Frontend
- Spring Boot RESTful Backend

3. Tech Stack

Frontend: Angular 15+

Backend: Java Spring Boot 3.x

Database: MySQL / H2 (for development)

Build Tools: Maven, Node.js, npm

Deployment: AWS EC2 / GitHub Pages

4. Folder Structure

/e-commerce-fullstack

- /backend
 - src/
 - pom.xml

- application.properties
- /frontend
 - src/
 - angular.json
 - package.json

5. Setup Instructions

1. Clone the repository:

```
git clone https://github.com/vijaybaghel1041/e-commerce-fullstack.git
```

2. Backend Setup:

```
cd backend/
```

```
mvn clean install
```

```
mvn spring-boot:run
```

3. Frontend Setup:

```
cd frontend/
```

```
npm install
```

```
ng serve --open
```

6. API Endpoints (Sample)

GET /api/products

GET /api/products/{id}

POST /api/cart/add

POST /api/orders/place

POST /api/auth/login

7. Deployment

The application is Docker-ready and can be deployed on AWS EC2 using NGINX for frontend and Spring Boot backend.

To build Docker images:

```
docker build -t backend-app ./backend
```

```
docker build -t frontend-app ./frontend
```

8. Contributors & License

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