

Al-Jawhara Shopping Platform Documentation

1■■■ Project Overview

Project Name: Al-Jawhara Shopping Platform

Goal: Build an online platform for selling grocery products in Libya.

Target Audience: Residents of Benghazi and nearby areas.

Payment Method: Cash on Delivery.

2■■■ System Users

User Type Description Permissions Customer Can browse and purchase products. Register, login, view/add to cart, checkout, track orders. Admin Store owner or manager. Add/Edit/Delete products, manage orders, update prices.

3■■■ Core Features

Customer Side:

- Browse all products (name, image, price, category).
- Search and filter by category.
- User registration & login.
- Add to cart & view total.
- Place order with contact info.
- View order history.

Admin Dashboard:

- Login as admin.
- Add/Edit/Delete products.
- Manage orders and update their status.
- Upload Excel file to bulk update products.

4■■■ Database Structure (MongoDB)

User

```
{ _id: ObjectId, name: String, email: String, password: String, phone: String, address: String, role: "customer" | "admin", createdAt: Date }
```

Product

```
{ _id: ObjectId, name: String, category: String, price: Number, size: String, image: String, description: String, stock: Number, createdAt: Date }
```

Order

```
{ _id: ObjectId, userId: ObjectId, products: [ { productId: ObjectId, quantity: Number } ], totalAmount: Number, status: "pending" | "shipped" | "delivered", address: String, phone: String, createdAt: Date }
```

5■■■ Tech Stack

Frontend: Next.js + Tailwind CSS

Backend: Node.js + Express

Database: MongoDB

Authentication: JWT

State Management: Context API

Deployment: Vercel (frontend) + Render or Railway (backend)

6■■■ Non-Functional Requirements

- Performance: Page loads within 2 seconds.
- Security: Passwords encrypted using bcrypt.
- Usability: Simple and intuitive UI.
- Compatibility: Works on both desktop and mobile.
- Scalability: Easily add new categories or features.

7■■■ Future Add-ons

- Online payment integration.
- Notification system.
- Multilingual interface (Arabic/English).
- Mobile app (React Native) version.