# **ShopSmart - Grocery Web App**

# **Project Documentation**

# 1. Project Overview

Project Name: ShopSmart - Your Digital Grocery Store Experience

#### Description:

ShopSmart is an online grocery store web application designed to provide customers with a smooth, convenient, and secure shopping experience. Users can browse products, manage carts, and complete purchases online. Sellers and administrators have dedicated dashboards for managing products, orders, and platform performance.

#### 2. Objectives

- Deliver an intuitive and user-friendly online grocery shopping experience.
- Enable customers to easily browse, select, and purchase products.
- Provide sellers with tools to manage inventory and orders.
- Allow administrators to oversee platform operations, user inquiries, and payments.
- Ensure data security and privacy for all users.

# 3. Features

#### 3.1 Customer Features

- User registration and login
- Browse products by category
- Search and filter products
- View detailed product information
- Add/remove items to/from shopping cart
- Secure checkout process
- Order history and tracking

#### 3.2 Seller Features

- Seller account management
- Add, edit, delete product listings
- Inventory management
- View and manage orders

### 3.3 Administrator Features

- User management (customers and sellers)
- Product and category management
- Order monitoring
- Payment processing
- Handle customer inquiries
- Analytics and reporting
- 4. Functional Requirements
- User Registration/Login
- Product Catalog
- Shopping Cart
- Checkout with payment gateway
- Order Management
- Inventory Management
- Admin Dashboard
- Notifications

### 5. Non-Functional Requirements

- Security
- Privacy
- Performance
- Usability
- Reliability

# 6. Technology Stack

- Frontend: HTML, CSS, JavaScript, React / Angular / Vue
- Backend: Node.js with Express / Django / Spring Boot
- Database: MongoDB / MySQL / PostgreSQL
- Payment Gateway: Stripe / PayPal
- Hosting: AWS / Heroku / Azure
- Security: JWT authentication, HTTPS

### 7. System Architecture

- Frontend web app
- Backend REST API or GraphQL
- Centralized database
- Seller/Admin dashboards
- Payment integration

#### 8. User Roles and Permissions

Customer: Browse, search, cart, checkout, view orders

Seller: Manage products and orders

Administrator: Manage users, products, orders, analytics

## 9. Security Considerations

- Secure authentication and access control
- HTTPS and data encryption
- Regular audits and security patches

#### 10. Future Enhancements

- Mobile app version
- Loyalty programs

- Al-based search and recommendations
- Real-time delivery tracking
- Reviews and ratings
- Multi-language/currency support

# 11. Project Timeline

- Requirements Gathering: 1 week

- Design: 2 weeks

- Development: 4-6 weeks

- Testing: 2 weeks

- Deployment: 1 week

- Maintenance: Ongoing

### 12. Team Roles

- Project Manager
- Frontend Developer
- Backend Developer
- Database Admin
- QA Tester
- UI/UX Designer

### 13. Contact Information

- Project Owner: [Your Name/Company]

- Email: your-email@example.com

- Website: your-website.com