

Functional Requirements Specification

Mobile E-Commerce Solution

Version: 1.0

Date: YYYY-MM-DD

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1. Introduction

This document defines the functional requirements for the Mobile E-Commerce Solution, outlining the core features, user interactions, and system behaviors required for successful implementation.

2. Scope

The solution enables users to browse products, add items to cart, manage profiles, and securely complete purchases through mobile devices.

3. Functional Requirements

3.1 User Authentication & Registration

- Users can register via email, phone number, or social login.
- Users can reset forgotten passwords via email or SMS.
- Users can log in and log out securely.

3.2 Product Browsing & Search

- Users can view products by categories and featured lists.
- Users can search for products using keywords.
- Users can view detailed product information and images.

3.3 Shopping Cart & Checkout

- Users can add, update, or remove products in their cart.
- Users can view cart summary before checkout.
- Users can apply discount codes or coupons.
- Users can proceed through a secure checkout process.

3.4 Payment Processing

- System supports multiple payment methods: credit/debit card, digital wallets.
- Payment confirmation and failure notifications are provided.

3.5 Order Management

- Users can view order history and order details.
- Users can cancel pending orders.
- Users can receive order status updates.

3.6 User Account Management

- Users can view and edit personal profile information.
- Users can manage shipping addresses and payment methods.

3.7 Notifications

- Users receive push notifications for order updates, promotions, and offers.
- Users can manage notification preferences.

4. Non-Functional Requirements (Summary Table)

| Requirement | Description |
|---------------|---|
| Performance | Response time < 2 seconds for all operations under normal load. |
| Security | All sensitive data shall be encrypted in transit and at rest. |
| Availability | System shall be available 99.5% of the time, excluding maintenance. |
| Compatibility | Supports iOS (v12+) and Android (v8+) devices. |

5. Appendices

A. Glossary

B. References