

PROJECT DETAILS

PROJECT NAME: Deluxe Phone Hub - Premium Smartphone Shopping App

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DOCUMENT NO.: FRD-DPH-001

DATE: April 19, 2025

VERSION NO.: 1.0

1. INTRODUCTION

The purpose of this Functional Requirements Document (FRD) is to detail the system functionality of the Deluxe Phone Hub application. This document builds on the business requirements defined in the BRD and provides a clear roadmap for development, testing, and stakeholder validation.

This app is designed to offer a seamless, fast, and trustworthy shopping experience for premium smartphones, delivering devices directly from OEMs at official prices.

2. SYSTEM OVERVIEW

Deluxe Phone Hub will be a mobile application (iOS and Android) that allows users to:

- Browse premium smartphones.
- View original pricing and availability.
- Purchase via secure payments.
- Choose ultra-fast delivery options.
- Track orders and contact customer service.

The system will integrate with OEM APIs, logistics APIs, and payment gateways.

3. FUNCTIONAL REQUIREMENTS

ID	FUNCTIONALITY	DESCRIPTION	INPUTS	OUTPUTS	USER ROLE	PRIORITY
FR-01	User Registration & Login	Users can register and sign in securely using email/mobile OTP/social login	Name, Email, Mobile, OTP	User Account Created	End User	1
FR-02	Product Browsing	Display a catalog of premium smartphones with filters and sorting	OEM product data	Product List UI	End User	1
FR-03	Product Detail Page	Show full specs, price, warranty info, delivery ETA	Product ID	Product Details View	End User	1
FR-04	Real-Time Stock Display	Display availability per region and model	Product ID, Region	In Stock / Out of Stock indicator	End User	1
FR-05	Add to Cart	Allow users to add products to cart with quantity selection	Product ID, Quantity	Cart updated	End User	1
FR-06	Secure Checkout	Users can select address, delivery slot,	Cart Items, Address	Order Confirmed	End User	1

		and payment method				
FR-07	Order Tracking	Track orders in real time via delivery partner API	Order ID	Order status updates	End User	2
FR-08	Wishlist Functionality	Save products for future notifications	Product ID	Wishlist Added/Updated	End User	3
FR-09	Notifications	Send alerts on order status, sales, restocks	User ID	Push Notifications	End User	3
FR-10	Customer Support Chat	Chat with support for queries and issues	User Message	Chat thread	End User, Support	2
FR-11	Admin Product Panel	Admins manage product inventory, pricing, status	Admin Login, Product Data	Updated catalog	Admin	1
FR-12	Reports & Analytics	Generate reports on sales, inventory, and performance	Filters	Visual & Exportable Reports	Admin	3

4. USE CASES

USE CASE 1: PURCHASE FLOW

- **Actor:** Customer
- **Steps:**
 1. Log in
 2. Browse products
 3. Search Product
 4. View Product Details
 5. Add to cart
 6. Choose delivery option
 7. Make payment
 8. Get confirmation & track order
 9. Manage Profile
 10. Product Reviews/Feedback

USE CASE 2: PRODUCT UPDATE BY ADMIN

- **Actor:** Admin
- **Steps:**
 1. Log in to Admin Panel
 2. Manage Orders / Add or update product info
 3. Customer Queries Handling
 4. Order Tracking

USE CASE 3: ORDER TRACK BY DELIVERY PARTNER

- **Actor:** Delivery Partner
- **Steps:**
 1. Log in to Admin Panel
 2. Order Tracking
 3. Manage Profile

5. ASSUMPTIONS

- OEMs will provide live product feeds and inventory APIs.
 - Logistics partners offer same-day or 24-hour delivery in metro cities.
 - UPI, Card, EMI, and Wallet payments will be supported via integrated gateways like Razorpay or Stripe.
 - User data will be stored in compliance with GDPR.
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6. EXTERNAL INTERFACES

Interface	Description
OEM API	For syncing real-time product, pricing, and stock info
Delivery Partner API	For order placement, tracking, and delivery status updates
Payment Gateway	Secure handling of all financial transactions
Notification Service	Push notifications and SMS (e.g., Firebase, Twilio)

7. DATA REQUIREMENTS

Entity	Fields
User	Name, Email, Mobile, Address, Order History, Wishlist
Product	ID, Name, Brand, Specs, Price, Stock, Images, Warranty
Order	Order ID, User ID, Product ID, Payment Status, Delivery Status
Admin	ID, Role, Permissions, Activity Log

8. SECURITY REQUIREMENTS

- All transactions must use HTTPS with SSL/TLS.
 - Data encryption for PII and payment information.
 - Role-based access control for Admin Panel.
 - Regular audit logs for all admin actions.
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9. APPENDIX

- UI Wireframes (to be attached)
- Sample JSON structure for OEM API
- SLA Terms with Logistics Partner
- Customer Support Workflow Diagram