TechSurge

Abstract

This proposal outlines key enhancements to the UgAi application, focusing on improving order reactivation, flexible payment options, and enhanced back-office tools. These updates aim to streamline operations, enhance user experience, and improve overall efficiency

Enhancement Proposal

UgAi Application

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# **Executive Summary**

This proposal outlines a comprehensive plan to implement the enhancements to the UgAi application as specified in the Business Requirements Document (BRD). The enhancements will focus on improving user experience, operational efficiency, and business capabilities through a series of front-end and back-office updates. The implementation will address critical functionality gaps while introducing new features to position UgAi as a leading agricultural technology solution.

# **Background & Rational**

The UgAi application currently faces several limitations that impact user satisfaction and operational efficiency. These include:

* Lack of real-time inventory visibility and pricing
* Limited order management capabilities, particularly for expired orders
* Insufficient shopping experience without cart functionality
* Inflexible payment options
* Limited back-office reporting and management tools
* Absence of important agricultural support features

By addressing these limitations, we can significantly enhance user experience, streamline operations, and create additional value for farmers using the platform.

# **Proposed Solution**

# **1: Core Functionality Enhancements**

### **1.1: Real-Time Inventory & Pricing System**

* Implement warehouse-based product visibility
* Display real-time inventory availability with visual indicators
* Show current per-unit pricing including freight calculations
* Prevent selection of unavailable products with appropriate user notifications

### **1.2: Order Management Improvements**

* Develop order reactivation functionality with multi-tier approval workflow
* Enable TSOs to request warehouse location changes
* Implement comprehensive order tracking for internal users

### **1.3: Enhanced Order Placement Journey**

* Redesign order flow to include warehouse selection and farm acreage input
* Develop cart functionality for adjusting products for the same delivery date
* Implement flexible payment options (5% advance or 100% upfront)

### **1.4: Back-Office Enhancements**

* Create detailed order unblock screen with comprehensive information
* Implement banner management module for amin use

# **2: Agricultural Support & Advanced Features**

### **2.1: Product Authentication & Security**

* Implement pre-login QR-based product authentication
* Integrate with SICPA's API for real-time validation

### **2.2: Financial Improvements**

* Integrate enhanced payment gateway for instant transaction
* Enable invoice and tax certificate generation/downloads

### **2.3: Engagement & Support Features**

* Create notification system for marketing, transactions, and alerts
* Implement complaint management system

### **2.4: Agricultural Productivity Tools**

* Integrate real-time weather information and forecasts

# **3:** **Implementation Phases**

## **Phase 1 (3 months)**

* Real-time inventory and pricing system
* Order reactivation functionality
* Cart and payment enhancements
* Essential back-office updates

## **Phase 2 (4 months)**

* QR authentication
* Enhanced payment gateway
* Invoice & tax certificate generation
* Engagement & Support Feature
* Weather information

## **Phase 3 (4 months)**

* Click stream analytics
* Final integration and optimization
* Engagement & Support Feature
* Weather information

## **4:** Resource Requirements

## **Development Team**

* 1 Project Manager
* 2 Backend Developers
* 3 Frontend Developers
* 1 QA Engineer
* 1 UX/UI Designer

## **Third-Party Services**

* SICPA API integration for product authentication
* Payment gateway services
* Weather data API
* SMS/notification service providers

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| **Business Requirement** | **Timeline** |
| Real-Time Inventory Review | 4 days |
| Real-Time Product Pricing | 3 days |
| Order Reactivation | 4 days |
| Cart Option at Order Placement | 5 days |
| Payment Options at Order Placement | 5 days |
| Changes for Internal Users | 4 days |
| QR-Based Product Authentication (Pre-Login Feature) | 4 days |
| Enhanced Payment Gateway Integration | 22 days |
| Gamified Loyalty Program | N/A |
| Invoice Availability / Tax Certificate on UgAi (DAS) | 4 days |
| Notifications (Marketing Campaigns, Transaction Details, Alerts) | 6 days |
| Click Stream Data | 4 days |
| Chat Bot | N/A |
| Community Platform | N/A |
| Soil Sampling | 12 days |
| Appointment with Agronomist | 10 days |
| Complaint Management | 5 days |
| Real-Time Weather | 1 day |
| UgAi Marketplace | N/A |
| Top-Up Payments | N/A |
| Back Office Screen Updates | 10 days |