

Project Offer: Digital Agriculture Marketplace for Myanmar

From: Infinity Success Co. Ltd.
To: Software Project Team (IBS6)
Date: August 2025
Contact: U Aung Myint, CTO (aung.myint@infinitysuccess.com.mm)

Company Background

Infinity Success Co. Ltd. is a Yangon-based technology company specializing in e-commerce solutions and digital transformation for Myanmar's growing digital economy. With 5 years of experience in developing web applications and mobile solutions, we have successfully delivered projects for local SMEs and international clients.

Project Challenge

Myanmar's agricultural sector, which employs over 60% of the population, faces significant challenges in market connectivity and price transparency. Smallholder farmers and regional traders struggle with:

- **Price Discovery:** No centralized platform to compare prices across regions
- **Market Access:** Limited direct connections between farmers and buyers
- **Trust Issues:** Lack of verification systems for reliable trading partners
- **Communication Barriers:** Dependence on informal channels and social media

Proposed Solution

We need a **comprehensive digital marketplace platform** that enables:

Core Requirements

- **Multi-role User System:** Farmers, traders, buyers, and administrators
- **Product Listings:** Agricultural products with pricing, stock levels, and regional information
- **Search & Filtering:** Advanced search capabilities across regions, categories, and price ranges
- **User Verification:** Document-based verification system to build trust
- **Communication Platform:** Integrated messaging system for buyer-seller negotiations
- **Admin Dashboard:** Management interface for platform oversight and user verification

Technical Requirements

- **Modern Web Technology:** React.js or similar framework for responsive design
- **Database Integration:** PostgreSQL or similar for data management
- **Real-time Features:** Live messaging and notifications
- **Mobile Responsive:** Must work on smartphones and tablets
- **Security:** User authentication and data protection
- **Scalable Architecture:** Built to handle future growth and feature additions

Project Scope & Deliverables

Phase 1: Core Platform (8 weeks)

- User registration and authentication system
- Product listing and management interface
- Search and filtering functionality
- Basic user profiles and verification process
- Admin dashboard for platform management

Phase 2: Advanced Features (4 weeks)

- Real-time messaging system
- Document upload and verification workflow
- Mobile optimization
- Testing and bug fixes
- Documentation and deployment

Expected Deliverables

1. **Working Web Application:** Fully functional marketplace platform
2. **Source Code:** Complete codebase with documentation
3. **Database Schema:** Well-designed database with sample data
4. **User Documentation:** Guide for platform users and administrators
5. **Technical Documentation:** System architecture and deployment guide
6. **Presentation:** Demo of key features and functionality

Business Value & Impact

This project addresses a real market need in Myanmar's agricultural sector:

- **For Farmers:** Direct market access, better price discovery, reduced middleman dependency
- **For Traders:** Expanded customer base, streamlined operations, inventory management
- **For Buyers:** Transparent pricing, verified suppliers, quality assurance
- **For Company:** Foundation for future agricultural technology solutions

Technical Challenges

The project involves several complex technical requirements:

- **Multi-tenant Architecture:** Supporting different user types with appropriate permissions
- **Real-time Communication:** Implementing live messaging and notifications
- **File Management:** Secure document upload and storage system
- **Mobile Optimization:** Ensuring functionality across all device types
- **Data Security:** Protecting user information and transaction data
- **Scalability:** Designing for future growth and feature expansion

Support & Resources

What We Provide

- **Technical Guidance:** Regular meetings with our development team
- **Domain Expertise:** Agricultural market knowledge and user requirements
- **Testing Environment:** Access to our development servers
- **Feedback Sessions:** Regular reviews and feature validation
- **Real-world Context:** Understanding of Myanmar's digital landscape

What We Expect

- **Professional Development:** High-quality, production-ready code
- **Regular Communication:** Weekly progress updates and milestone reviews
- **Documentation:** Comprehensive technical and user documentation
- **Testing:** Thorough testing across different devices and scenarios
- **Presentation:** Final demo showcasing all implemented features

Success Criteria

The project will be considered successful if:

1. **Functional Requirements:** All core features work as specified
2. **User Experience:** Intuitive interface suitable for non-technical users
3. **Performance:** Fast loading times and responsive design
4. **Security:** Proper authentication and data protection
5. **Scalability:** Architecture supports future enhancements
6. **Documentation:** Complete technical and user documentation

Timeline

- **Project Start:** October 2025
- **Phase 1 Completion:** December 2025
- **Phase 2 Completion:** January 2026
- **Final Presentation:** February 2026

Contact Information

Primary Contact: U Aung Myint

Position: Chief Technology Officer

Email: aung.myint@infinitysuccess.com.mm

Phone: +95 9 123 456 789

Company: Infinity Success Co. Ltd.

Address: 123 Business District, Yangon, Myanmar

Additional Notes

This project offers students the opportunity to work on a real-world problem with significant social impact. The agricultural sector in Myanmar is undergoing digital transformation, and this marketplace could serve as a foundation for future technological solutions.

We are committed to providing ongoing support and guidance throughout the project duration. The successful completion of this project could lead to potential internship opportunities or future collaboration on related projects.

We look forward to working with a dedicated team of students who are passionate about using technology to solve real-world problems in Myanmar's agricultural sector.