

Agile Project Management Record

Team: Soft Touch **Project:** SmartAgro **Timeline:** Nov 27 – Dec 18, 2025

1. Team Roles & Responsibilities

- **Backend Development (Sam & Muhammed):** Focused on API implementation, database design, and external service integration.
- **Frontend Development (Nicole):** Concentrated on user interface implementation, PWA configuration, and offline functionality.
- **Design (Michael):** Encompassed user experience research, interface mockups, and usability testing.

2. Sprint Log

Sprint 1: Architecture & Core Authentication

- **Focus:** Prioritized foundational architecture and core authentication functionality.
- **Sprint Goal:** Establish the Modular Monolith structure and enable secure user access.
- **Completed Tasks:**
 - Task - **Architecture:** Setup FastAPI backend & React PWA structure with CI/CD to main branch.
 - Task - **Auth:** Implement User Registration with OTP verification (mNotify).
 - Task - **Auth:** Implement JWT-based session management.
 - Task - **Feature:** Build Basic Product Listing capabilities (CRUD for Farmers).
- **Retrospective:**
 - *Process:* "Strict Scrum ceremony adherence was impractical, so we shifted to short daily coordination meetings to maintain velocity".

Sprint 2: Transactions & Communication

- **Focus:** Implementing the escrow system and buyer-seller communication.
- **Sprint Goal:** Enable Order Creation and Secure Payments.
- **Completed Tasks:**
 - Task - **Escrow:** Integrate Paystack API for payment processing and fund holding.
 - Task - **Orders:** Implement Order Creation logic and database relations.
 - Task - **Chat:** Build Chat System for buyer-seller communication (MongoDB).
- **Retrospective:**
 - *Challenge:* "Paystack integration required complex state management for the 'Held' vs 'Released' funds logic."

Sprint 3: Intelligence & Reliability

- **Focus:** AI farming assistant, multimodal inputs, and comprehensive testing.
- **Sprint Goal:** Finalize the "Smart" features and prove system stability.
- **Completed Tasks:**

- Task - **AI**: Implement AI Farming Assistant (OpenRouter/Claude).
 - Task - **Multimodal**: Enable processing of images (Multimodal Input) for crop disease detection.
 - Task - **Admin**: Build Dispute Resolution workflows.
 - Task - **QA**: Conduct Comprehensive Load Testing on the API.
- **Retrospective:**
 - *Success*: "Phased approach ensured we had demonstrable functionality at the end of every week".