# **Development Roadmap**

## **Project Timeline: 2 Months (Scrum-Based Execution)**

### **Phase 1: Planning & Setup (Week 1 - 2)**

* Define project scope, objectives, and deliverables.
* Assemble development team and assign roles.
* Set up project management tools (Jira, Trello, etc.).
* Define initial user stories and acceptance criteria.
* Establish blockchain infrastructure and initial system architecture.

### **Phase 2: Core System Development (Week 3 - 6)**

#### **Sprint 1 (Week 3 - 4):**

* Develop blockchain-based ledger for produce tracking.
* Implement smart contract functionality for transactions.
* Create foundational API endpoints for system integration.
* Conduct initial unit testing on blockchain functions.

#### **Sprint 2 (Week 5 - 6):**

* Implement secure user authentication and role-based access control.
* Develop the UI/UX for the web-based dashboard.
* Integrate QR code tracking for produce verification.
* Conduct usability testing for core features.

### **Phase 3: Testing & Optimization (Week 7 - 8)**

* Conduct functional, integration, and security testing.
* Gather user feedback from pilot participants and make improvements.
* Optimize system performance and resolve identified bugs.
* Finalize documentation for MVP deployment.
* Deploy the MVP and provide user onboarding.

## **Progress Measurement & Evaluation**

* **Sprint-based development tracking** using Agile tools.
* **User feedback incorporation** after each sprint.
* **Performance evaluation** based on KPIs like transaction speed, user adoption, and blockchain integrity.