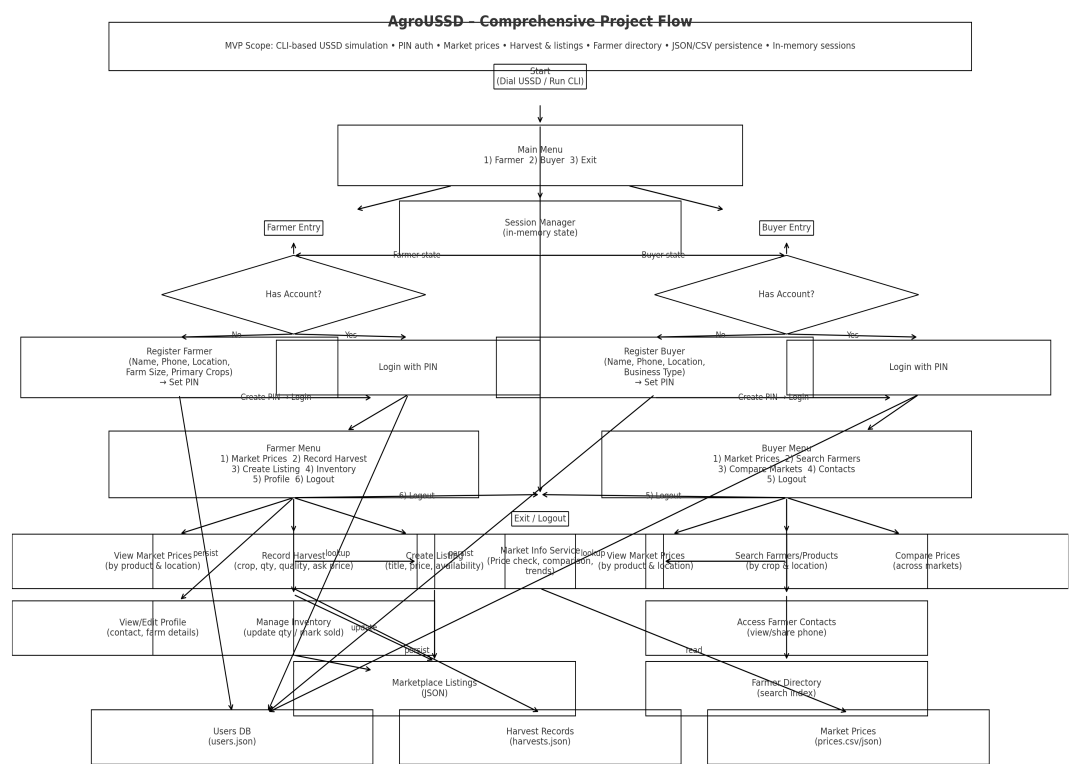


# AgroUSSD Project Design Document

This document presents the comprehensive system design for the AgroUSSD project, a USSD-based agricultural information and marketplace system for Nigerian farmers and buyers. It includes system flow, object-oriented class structure, sequence flows for core operations, and the underlying data model for persistence.

## 1. System Flowchart

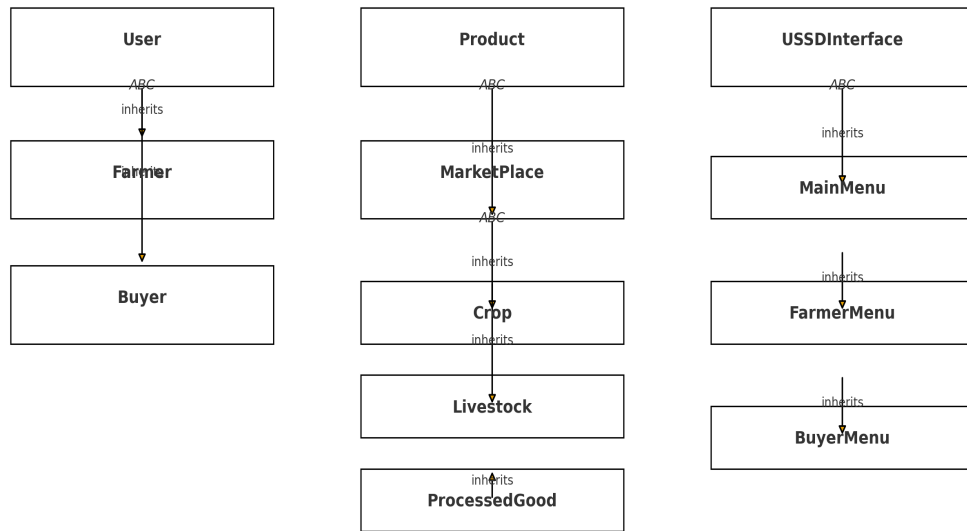
The flowchart illustrates the main menus and navigation for both farmers and buyers.



## 2. Class Diagram

This diagram shows the object-oriented design, including abstract base classes and inheritance.

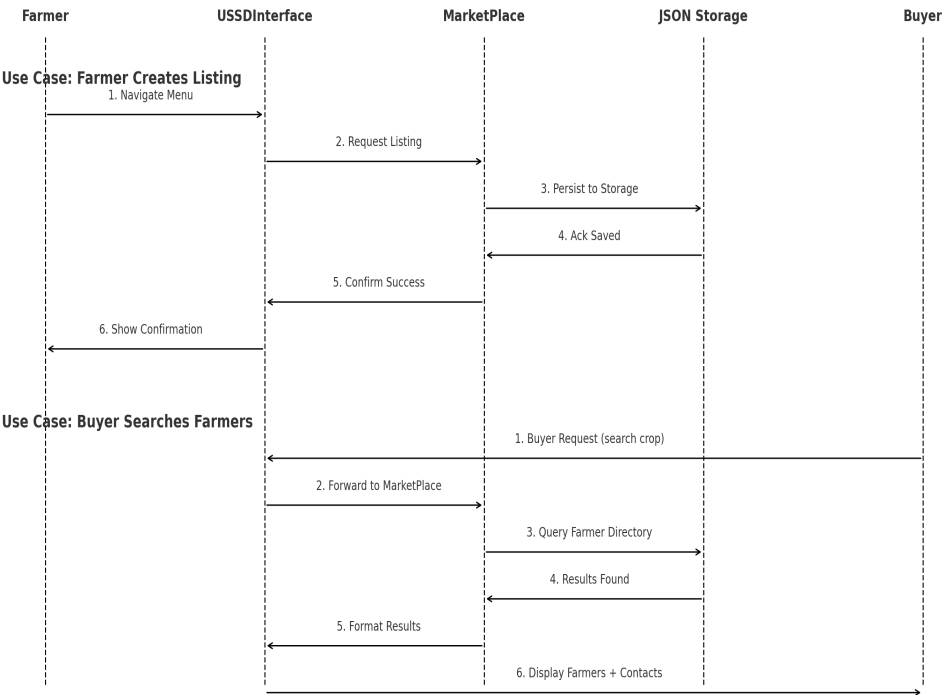
### AgroUSSD - Class / Component Diagram



### 3. Sequence Diagram

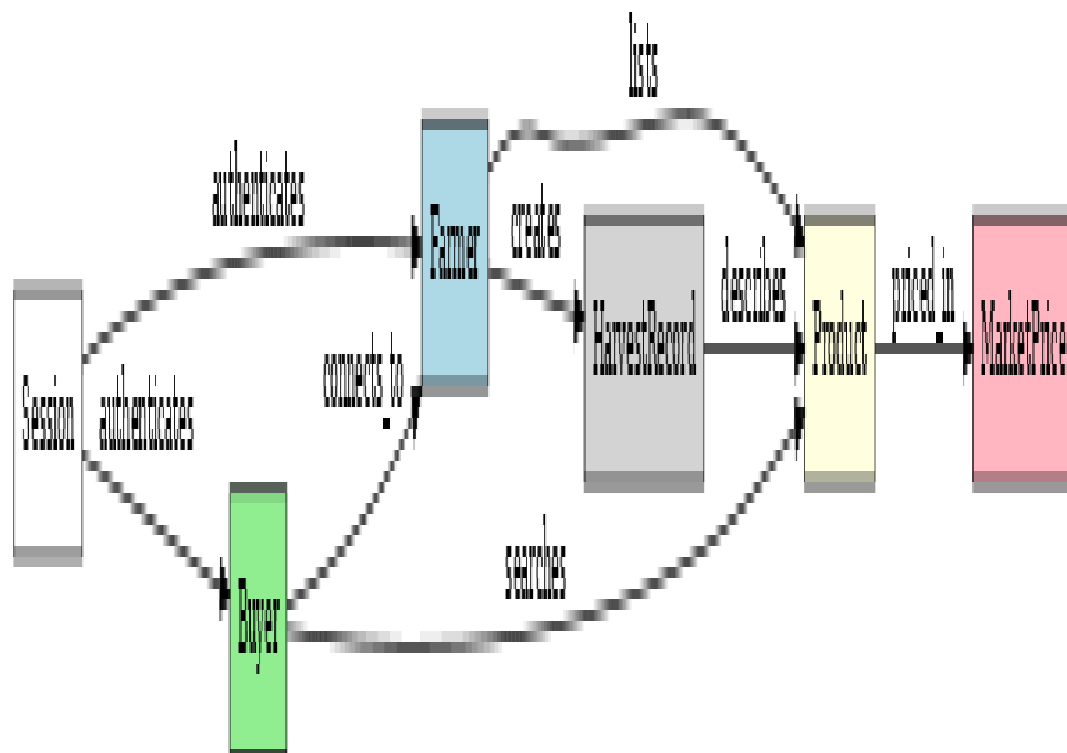
The sequence diagram details interactions for critical journeys such as creating listings and searching farmers.

AgroUSSD - Sequence Diagram (Key Use Cases)



4. Entity-Relationship Diagram

The ER diagram outlines the data model and persistence layer structure, including farmers, buyers, products, harvests, and market prices.



## Conclusion

With these diagrams, the AgroUSSD team has a clear blueprint for development. The flowchart defines the user experience, the class diagram guides implementation, the sequence diagram captures user interactions, and the ER diagram ensures proper data management.