Project Design Phase-II

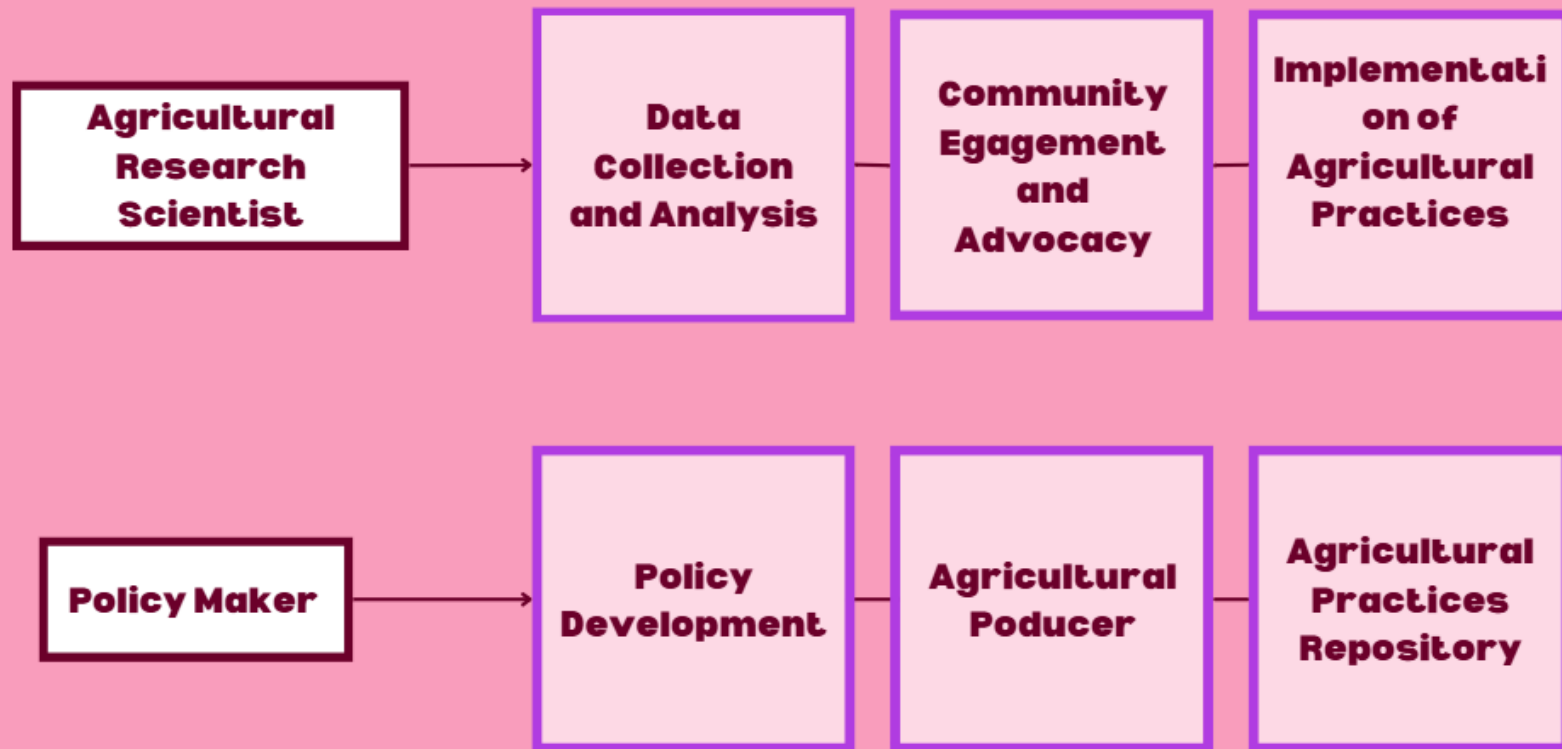## Data Flow Diagram & User Stories

Date	28 February 2025
Team ID	PNT2025TMID00740
Project Name	Global Food Production and Trend Analysis
Maximum Marks	4

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Data Flow Diagram

| Agricultural Research Scientist | → | Data Collection and Analysis | — | Community Egagement and Advocacy | — | Implementati on of Agricultural Practices |

| Policy Maker | → | Policy Development | — | Agricultural Poducer | — | Agricultural Practices Repository |

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Agricultural Research Scientist	Access to Research Data	USN-1	As an Agricultural Research Scientist, I want to access a centralized research data repository so that I can analyze trends and derive insights to improve agricultural practices.	• The data repository is accessible to authorized users. • Data is organized and searchable. • Users can download datasets.	High	Sprint-1
	Collaboration with Stakeholders	USN-2	As an Agricultural Research Scientist, I want to collaborate with policymakers and NGOs so that I can ensure my research findings are translated into actionable policies and community programs.	• Collaboration tools are available (e.g., shared documents, communication channels). • Feedback from stakeholders is documented.	Medium	Sprint-2
Policy Maker	Evidence-Based Policy Development	USN-3	As a Policy Maker, I want to receive evidence-based insights from research data so that I can develop effective policies that address food security and sustainability.	• Research data is presented in a clear and actionable format. • Policy drafts are informed by research findings.	High	Sprint-1
	Stakeholder Engagement	USN-4	As a Policy Maker, I want to engage with stakeholders, including farmers and NGOs, so that I can gather diverse perspectives and create inclusive policies.	• Stakeholder meetings are scheduled and documented. • Feedback from stakeholders is incorporated into policy drafts.	High	Sprint-2

NGO Representative	Community Needs Assessment	USN-5	As an NGO Representative, I want to conduct community needs assessments so that I can advocate for policies that truly reflect the needs of marginalized communities.	• Assessment tools (surveys, interviews) are developed. • Results are compiled and shared with policymakers.	High	Sprint-2
	Access to Data on Food Security Issues	USN-6	As an NGO Representative, I want to access data on food security issues so that I can effectively communicate the challenges faced by communities to policymakers.	• Data on food security is available and up-to-date • Reports can be generated for advocacy purposes.	Medium	Sprint-2
Agricultural Producer	Practical Recommendations	USN-7	As an Agricultural Producer, I want to receive practical recommendations based on research findings so that I can implement sustainable practices that improve my crop yields.	• Recommendations are tailored to specific crops and regions. • Producers can provide feedback on the recommendations.	High	Sprint-3
	Workshops and Training Sessions	USN-8	As an Agricultural Producer, I want to participate in workshops and training sessions so that I can learn about new technologies and practices that can enhance my farming operations.	• Workshops are scheduled and advertised. • Attendance and feedback are collected after each session.	Medium	Sprint-3