Project Design Phase-II
Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	PNT2025TMID02661
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI
Maximum Marks	4 Marks

Data Flow Diagrams:
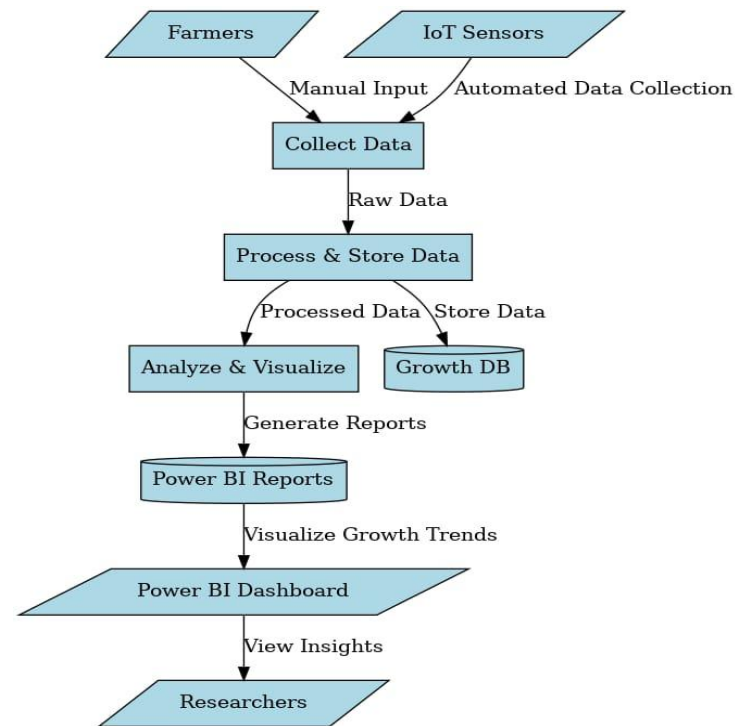
User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Farmer	Data Input (Manual)	USN-1	As a farmer, I can manually input environmental data (e.g., temperature, irrigation details) into the system.	Data is captured accurately and stored for analysis.	High	Sprint-1
	View Growth Insights	USN-2	As a farmer, I can view a simplified dashboard of my crop's current growth stage and recommendations.	The dashboard shows accurate growth stages with recommendations.	High	Sprint-2
IoT System	Automated Data Collection	USN-3	As an IoT system, I automatically send environmental data (e.g., temperature, humidity) to the system every hour.	Data is consistently transmitted and stored without manual intervention.	High	Sprint-1
Researcher	Data Analysis	USN-4	As a researcher, I can explore Power BI visualizations to understand how environmental factors influence growth stages.	Visuals display trends and correlations clearly.	High	Sprint-2
Administrator	System Monitoring	USN-5	As an admin, I can monitor the data flow (manual and automated) to ensure no data gaps occur.	Admin gets an alert if data stops or errors.	Medium	Sprint-2