

Initial Project Planning Template

Date	22 July 2025
Team ID	
Project Name	Predicting plant growth stages with environmental and management data using power bi
Maximum Marks	4 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create a product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Member	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Data Collection	USN-1	I can collect and organize soil, water, temperature, and humidity data for further processing.	3	Medium	Chirag	23 July,2025	24 July,2025
	Collect Relevant Data	USN-2	I can collect soil type, humidity, temperature, and water frequency data from various sources to ensure complete input for analysis.	2	Medium	Chirag	23 July,2025	24 July,2025

	Load the Data	USN-3	I can load the collected data into a central storage or database for further processing.	1	Medium	Chirag	23 July,2025	24 July,2025
Sprint-2	Data Preprocessing	USN-4	This stage focuses on cleaning and organizing the raw data to make it analysis-ready.	4	High	Chirag	25 July,2025	26 July,2025
	Handle Missing Values	USN-5	I can identify and fill or remove missing values to improve data quality and consistency.	2	High	Chirag	25 July,2025	26 July,2025
	Splitting/Merging Fields	USN-6	I can split combined columns (e.g., DateTime into Date and Time) or merge fields where necessary to structure the dataset properly.	2	High	Chirag	25 July,2025	26 July,2025
Sprint-3	Data Analysis and Insights	USN-7	As a data analyst, I can analyse growth milestones by environmental factors to identify patterns in plant development.	8	High	Chirag	27 July,2025	28 July,2025
	Visualization of Environmental Factors	USN-8	As a user, I can view graphs showing average sunlight, temperature, and humidity levels to understand growing	4	Medium	Chirag	27 July,2025	28 July,2025

			conditions.					
	Interactive Dashboard Implementation	USN-9	As a farmer, I can use a dashboard to compare plant growth across soil types and water frequencies for better planning.	4	High	Chirag	27 July,2025	28 July,2025
Sprint-4	Evaluation & System Update	USN-10	As a stakeholder, I can evaluate the system's performance and suggest improvements for the next farming cycle.	8	Medium	Chirag	29 July,2025	30 July,2025
	User Feedback Collection	USN-11	Gathering input from farmers, analysts, and stakeholders.	5	Medium	Chirag	29 July,2025	30 July,2025
	Improvement Planning & Documentation	USN-12	Logging findings and planning improvements for future cycles.	3	Medium	Chirag	29 July,2025	30 July,2025

