Initial Project Planning

Date	25 December 2025
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)

This schedule outlines a 3-week agile development plan to deliver the "Agricultural Optimization Dashboard." The project is divided into three sprints: **Sprint 1** focuses on data ingestion and cleaning to establish a reliable foundation. **Sprint 2** covers the core analysis, delivering key visualizations for fertilizer and environmental factors. **Sprint 3** is dedicated to advanced optimization features, adding interactivity, and finalizing the dashboard.

Sprint 1: 10 December-14 December (Getting the data ready.)

Sprint 2: 14 December-19 December (Building the main charts.)

Sprint 3: 19 December-23 December (Adding the complex matrix, slicers, and final report.)

Sprint	Functional Requirement	User Story	User Story / Task	Story Points	Priority	Team Member	Start Date	End Date
Sprint-1	Data Requirement	US-001	Import **plant_growth_data.csv** into Power BI and check for null values.	2	High	Dhanya K	10 Dec	11 Dec
Sprint-1	Data Preparation	US-002	Create conditional column to categorize Growth_Milestone for better readability.	2	Medium	Dhanya K	13 Dec	14 Dec
Sprint-2	Data Modeling	US-003	Create DAX measures for Success Rate % and Total Plants Count.	3	High	Dhanya K	14 Dec	16 Dec
Sprint-2	Data Analysis	US-004	Analyze the correlation between Fertilizer_Type and Success Rate to confirm the "Organic" hypothesis.	2	Medium	Dhanya K	17 Dec	19 Dec
Sprint-3	Dashboard Visualization	US-005	Design the "Overview Page" with KPI Cards (Total Plants, Success Rate) and Slicers (Soil Type, Sunlight).	5	High	Dhanya K	19 Dec	21 Dec
Sprint-3	Dashboard Visualization	US-006	Create the "Optimization Matrix" visual showing the best Water_Frequency for each Soil_Type.	3	Medium	Dhanya K	21 Dec	23 Dec