

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	15 February 2025
Team ID	PNT2025TMID02661
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI
Maximum Marks	5 Marks

Product Backlog and Sprint Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task Description	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Assigned Members
Sprint-1	Registration	USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1	High	Assigned Members
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail.	2	Medium	Assigned Members
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password.	1	High	Assigned Members
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook.	2	Low	Assigned Members

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task Description	Story Points	Priority	Team Members
Sprint-3	Dashboard	To be defined	Define dashboard-specific tasks as necessary.	TBD	TBD	Assigned Members

Project Tracker and Velocity

Sprint	Total Story Points	Duration (Days)	Start Date	End Date (Planned)	Story Points Completed (Planned)	Release Date (Actual)
Sprint-1	20	6	2 feb 2025	7 feb 2025	20	7 feb 2025
Sprint-2	20	6	7 feb 2025	12 feb 2025	20	12 feb 2025
Sprint-3	20	6	12 feb 2025	17 feb 2025	TBD	TBD
Sprint-4	20	6	17 feb 2025	22 feb 2025	TBD	TBD

Velocity Calculation

- $\text{Velocity} = \text{Total Story Points} / \text{Total Sprint Duration (in days)}$.
- If the team's average velocity is 20 points per sprint (10-day sprint duration), $\text{Average Velocity (AV)} = 2$ story points per day.

Burndown Chart

A burndown chart illustrates:

- X-axis: Sprint duration (time in days).
- Y-axis: Remaining story points.
- It starts with 20 story points at day 0 and decreases daily based on completed points.