Project Planning Phase

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

Date	27 June 2025
Team ID	LTVIP2025TMID38971
Project Name	pollen's profiling: automated classification of pollen grains
Maximum Marks	5 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register by entering my email, password, and confirming my password.	2	High	Frontend Developer, Backend Developer
Sprint-1		USN-2	As a user, I will receive a confirmation email after registration.	1	High	Backend Developer
Sprint-2		USN-3	As a user, I can register using Facebook login.	2	Low	Backend Developer
Sprint-1		USN-4	As a user, I can register using Gmail login.	2	Medium	Backend Developer
Sprint-1	Login	USN-5	As a user, I can log into the application using email & password.	1	High	Backend Developer, Tester
Sprint-2	Dashboard	USN-6	As a user, I can view the classification history of my uploaded pollen images.	3	Medium	Frontend Developer, Backend Developer
Sprint-3	Model Building	USN-7	As a user, I want the system to classify the uploaded pollen image accurately.	5	High	ML Engineer, Backend Developer

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Deployment	USN-8	As a user, I want to upload an image and view output using a web interface.	3	High	Frontend Developer

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	29 May 2025	4 June 2025	20	5 June 2025
Sprint-2	20	6 Days	6 June 2025	12 June 2025	18	13 June 2025
Sprint-3	20	6 Days	14 June 2025	20 June 2025	16	21 June 2025
Sprint-4	20	6 Days	22 June 2025	28 June 2025	20	27 June 2025

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.