Project Planning Phase

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

Date	17 June 2025
Team ID	LTVIP2025TMID32832
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	Dataset Upload	USN-1	As a user, I can upload pollen images into the system..	2	High	Eduri Maryjones
Sprint-1	Dataset Preprocessing	USN-2	As a user, the system resizes, cleans, and prepares images for model training.	3	High	Idimukkala Yasasswini
Sprint-1	Model Training	USN-3	As a user, I can train a CNN model to classify pollen grains.	5	High	Mamidela Venkata Naga Suseel Kumar
Sprint-2	Predictio Function	USN-4	As a user, I can upload an image and get the predicted pollen type.	3	High	J Pushpitha
Sprint-2	Web interface(Flask)	USN-5	As a user, I can use a simple web app to upload and get predictions.	3	Medium	Inturi Venkata Vikash
Sprint-3	Testing	USN-6	As a user, I want the system to be tested for accuracy and performance.	2	High	Idimukkala Yasasswini
Sprint-3	Deployment (local/cloud)	USN-7	As a user, I can deploy the web app to GitHub or a cloud platform.	2	Medium	Mamidela Venkata Naga Suseel Kumar

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	10	6 Days	10 June 2025	15 June 2025	10	15 June
Sprint-2	20	6 Days	16 June 2025	21 June 2025	8	21 June
Sprint-3	20	6 Days	22 June 2025	26 June 2025	7	26 June

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts