Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2025TMID32756
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	Data Collection	USN-1	As a user, I can upload pollen grain image from different sources	3	High	
Sprint-1	preprocessing	USN-2	As a user, I can clean segment images for better classification	2	High	
Sprint-2	Feature Extraction	USN-3	As a user, I can extract morphological features from uploaded pollen images	2	Medium	
Sprint-1	Model Training	USN-4	As a user, I can train an ML/DL model using labelled data	3	High	
Sprint-1	Classification	USN-5	As a user, I can classify a give pollen grain into its respective category	2	High	
Sprint-3	Result Dashboard	USN-6	As a user, I can view the classification results and accuracy on a dashboard	2	High	

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	05 May 2025	10 May 2025	20	10 May 2025
Sprint-2	20	6 Days	12 May2025	17 May 2025		
Sprint-3	20	6 Days	19 May 2025	24 May 2025		
Sprint-4	20	6 Days	23 May 2025	31 May 2025		
Sprint-5	20	6 Days	02 June 2025	07 June 2025		
Sprint-6	20	6 Days	09 June 2025	14 June 2025		
Sprint-7	20	6 Days	16 June 2025	21 June 2025		
Sprint-8	20	6 Days	23 June 2025	28 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.

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