Project Planning Phase Project Planning Template

Date	15 February 2025
Team ID	LTVIP2025TMID42449
Project Name	Butterfly Species Classification System
Maximum Marks	5 Marks

1 Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule.

Sprint	Functional	User	User Story / Task	Story	Priority
	Requirement	Story		Points	
	(Epic)	Number			
Sprint-1	Data Prepro-	US-05	Resize and normalize	3	High
	cessing		images		
Sprint-1	Data Prepro-	US-06	Apply image augmen-	2	High
	cessing		tation		
Sprint-1	Model Build-	US-07	Fine-tune Mo-	5	High
	ing		bileNetV2 for 75		
			classes		
Sprint-2	Model Testing	US-08	Evaluate model with	3	High
			metrics		
Sprint-2	Model Testing	US-01	Upload image to iden-	3	High
			tify species		
Sprint-2	Classification	US-02	View prediction confi-	2	Medium
			dence		
Sprint-3	Application	US-03	Access species facts	2	High
Sprint-3	Application	US-04	Use intuitive UI for up-	3	High
			loads		

Project Tracker, Velocity & Burndown Chart

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint lease (Actual)
Sprint-1	10	5 Days	01 Feb 2025	05 Feb 2025	10	05 Feb 2
Sprint-2	8	5 Days	06 Feb 2025	10 Feb 2025		
Sprint-3	5	5 Days	11 Feb 2025	15 Feb 2025		

2.1 Velocity

Total Story Points = 10 (Sprint-1) + 8 (Sprint-2) + 5 (Sprint-3) = 23 Number of Sprints = 3

$$\mbox{Velocity} = \frac{\mbox{Total Story Points}}{\mbox{Number of Sprints}} = \frac{23}{3} \approx 7.67 \mbox{ (Story Points per Sprint)}$$

Assuming a 5-day sprint duration, the average velocity per day is:

$$AV = \frac{Velocity}{Sprint Duration} = \frac{7.67}{5} \approx 1.53$$
 (Story Points per Day)

2.2 Burndown Chart

A burndown chart is a graphical representation of work left to do versus time, used to track progress in agile methodologies.

References:

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/https://www.atlassian.com/agile/tutorials/burndown-charts