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

Date	15 February 2025
Team ID	LTVIP2025TMID45505
Project Name	CleanTech: Transforming Waste Management with Transfer Learning
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 Member
Sprint-1 Data Preparation	USN-1	As a developer, I want to collect and organize waste classification dataset from Kaggle.	2	High	J.Pratyusha
Sprint-1 Data Preparation	USN-2	As a developer, I want to load and explore the dataset to understand structure and labels.	1	High	G.Sai HarshaVardh an Reddy
Sprint-1 Data Preprocessing	USN-3	As a data scientist, I want to handle missing and null values effectively.	3	High	G.Sai HarshaVardh an Reddy
Sprint-1 Data Preprocessing	USN-4	As a data scientist, I want to encode categorical labels for model training.	2	Medium	J.Pratyusha
Sprint-2 Model Building	USN-5	As a developer, I want to build a waste classifier	5	High	J.Pratyusha

Sprint Functional Requirement (Epic	User Story Number	User Story / Task	Story Points	Priority	Team Member
		using transfer learning (VGG16).			
Sprint-2 Model Testing	USN-6	As a QA, I want to evaluate the model's performance using accuracy and confusion matrix.	3	High	G.Sai HarshaVardh an Reddy
Sprint-2 Deployment	USN-7	As a web developer, I want to build HTML UI pages for image upload and prediction results.	3	Medium	G.Sai HarshaVardh an Reddy
Sprint-2 Deployment	USN-8	As a developer, I want to deploy the model using Flask and host it online.	5	High	J.PRATYUSH A

Project Tracker, Velocity & Burndown Chart (4 Marks)

Sprint Tracker

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date (Actual)
Sprint-1 8	3	5 Days	10 Feb 2025	14 Feb 2025	8	14 Feb 2025
Sprint-2 1	.6	5 Days	15 Feb 2025	19 Feb 2025	16	19 Feb 2025

Velocity Calculation

Formula:

Velocity = Total Story Points Completed / Number of Sprints

Calculation:

Velocity = (8 + 16) / 2 = 12 Story Points per Sprint

Average Velocity per Day (5-day sprints)

Average Velocity per Day = 12 / 5 = 2.4 story points/day

Burndown Chart

To track daily progress during a sprint, create a burndown chart:

- **X-axis:** Days (1-5)
- Y-axis: Remaining story points (starts at 8 or 16, drops to 0 by Day 5)
- Tools:
 - Excel / Google Sheets
 - <u>Visual Paradigm Chart Generator</u>
 - Atlassian Burndown Guide

References

- Agile Project Management Atlassian
- Scrum with Jira
- <u>Burndown Charts Atlassian</u>