

## Project Planning Phase

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

Date	06 February 2025
Team ID	LTVIP2026TMIDS53438
Project Name	Dog Breed Identification Using 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 Members
Sprint-1	Data Collection	USN-1	Collect dog breed dataset	3	High	Data Team
Sprint-1	Data Collection	USN-2	Organize images into breed folders	2	High	Data Team
Sprint-1	Data Collection	USN-3	Remove corrupted / incorrect images	3	High	Data Team
Sprint-1	Data Preparation	USN-4	Resize images to 128x128	3	High	ML Team
Sprint-1	Data Preparation	USN-5	Normalize image pixel values	2	Medium	ML Team
Sprint-1	Data Preparation	USN-6	Apply image augmentation	3	Medium	ML Team
Sprint-2	Model Development	USN-7	Load VGG19 pre-trained model	3	High	ML Team
Sprint-2	Model Development	USN-8	Freeze base layers	2	High	ML Team

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Model Development	USN-9	Add dense & output layers	3	High	ML Team
Sprint-2	Model Development	USN-10	Compile and train model	5	High	ML Team
Sprint-2	Model Development	USN-11	Evaluate & save model (.h5)	3	High	ML Team
Sprint-3	Web Application	USN-12	Create HTML pages	3	High	Web Team
Sprint-3	Web Application	USN-13	Build Flask backend	5	High	Backend Team
Sprint-3	Web Application	USN-14	Integrate model with Flask	5	High	Backend Team
Sprint-3	Web Application	USN-15	Display prediction result	3	High	Web Team

#### 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	16	6 Days	17 Feb 2025	22 Feb 2025	16	22 Feb 2025
Sprint-2	16	6 Days	24 Feb 2025	01 Mar 2025	16	01 Mar 2025
Sprint-3	16	6 Days	03 Mar 2025	08 Mar 2025	16	08 Mar 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)

**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.