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

Date	16 February 2026
Team ID	LTVIP2026TMIDS52481
Project Name	Dog Breed Identification Using Transfer Learning
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint-1 – Dataset & Setup

USN-1: As a developer, I collect dog breed images from Kaggle dataset.
Story Points: 3   Priority: High   Team: All

USN-2: As a developer, I organize images into breed-wise folders.
Story Points: 2   Priority: High   Team: Ram Sai Kumar K, Venu Madhav B

USN-3: As a developer, I split dataset into training and validation sets.
Story Points: 2   Priority: High   Team: Dinesh K

Sprint-2 – Preprocessing & Model Preparation

USN-4: As a developer, I preprocess images (resize, normalize).
Story Points: 3   Priority: High   Team: Dinesh K, Chiranjeevi S

USN-5: As a developer, I apply data augmentation for better generalization.
Story Points: 3   Priority: Medium   Team: Venu Madhav B

Sprint-3 – Model Building & Training

USN-6: As a developer, I load MobileNetV2 transfer learning model.
Story Points: 4   Priority: High   Team: Ram Sai Kumar K

USN-7: As a developer, I add classification layers and compile the model.
Story Points: 3   Priority: High   Team: Ram Sai Kumar K, Dinesh K

USN-8: As a developer, I train and evaluate the model accuracy.
Story Points: 4   Priority: High   Team: All

Sprint-4 – Application & Deployment

USN-9: As a developer, I build Flask backend for prediction.
Story Points: 3   Priority: High   Team: Chiranjeevi S

USN-10: As a developer, I design HTML/CSS frontend for image upload.
Story Points: 2   Priority: Medium   Team: Venu Madhav B

USN-11: As a developer, I deploy the application using Hugging Face.
Story Points: 3   Priority: High   Team: All

Project Tracker, Velocity & Burndown

Sprint Plan

Sprint-1: 14 Feb – 19 Feb 2026   Points: 10   Completed: 10

Sprint-2: 20 Feb – 25 Feb 2026   Points: 10   Completed: 9

Sprint-3: 26 Feb – 03 Mar 2026   Points: 11   Completed: 10

Sprint-4: 04 Mar – 09 Mar 2026   Points: 8   Completed: 8

Velocity

Average velocity ≈ 10 story points per sprint, indicating stable and predictable development progress aligned with agile estimation principles.

Burndown Chart

A burndown chart visually represents remaining work vs. sprint time, helping monitor progress and ensure timely completion of the dog breed classification system.