Project Planning Phase

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

Date	27 June 2025
Team ID	LTVIP2025TMID41035
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Product backlog and sprint schedule:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Dataset Preparation	USN-1	As a data scientist, I will collect and clean the poultry disease dataset	3	High	Akula Roshitha
Sprint-1	Preprocessing	USN-2	As a developer, I will resize and normalize poultry images	2	High	Akula Roshitha
Sprint-2	Model Building	USN-3	As a developer, I will build a CNN using transfer learning (VGG16)	3	High	Kanderi Babu Trisha
Sprint-2	Model Training	USN-4	As a developer, I will train and evaluate the model on the dataset	3	High	Kanderi Babu Trisha
Sprint-3	Fine-Tuning	USN-5	As a developer, I will fine-tune the last layers of VGG16 for higher accuracy	2	Medium	Shaik Sinwan, Kancharla Maleeswari
Sprint-3	Deployment	USN-6	As a developer, I will deploy the model via a web interface for user interaction.	3	Medium	Shaik Sinwan
Sprint-4	Flask Web UI	USN-7	As a user, I will upload an image and get prediction results via Flask app	3	High	Kancharla Maleeswari
Sprint-4	Report Generation	USN-8	As a team, we will prepare screenshots and reports	2	High	Full 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	5	5 Days	4 June 2025	9 June 2025	5	10 June 2025
Sprint-2	6	5 Days	10 June 2025	15 June 2025	6	15 June 2025
Sprint-3	5	5 Days	16 June 2025	21 June 2025	5	21 June 2025
Sprint-4	5	5 Days	22 June 2025	27 June 2025	5	27 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$