Project Planning Phase

Date	28 June 2025
Team ID	LTVIP2025TMID41715
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	5 Marks

Product Backlog, Sprint Schedule, and Estimation:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a data engineer, I want to collect poultry disease image datasets from various sources (e.g., open datasets, farms).	4	High	Nisyal
	Data Preparation	USN-2	As a data scientist, I want to clean, label, and preprocess images for model readiness.	3	High	Manoj
Sprint-2	Model Building using transfer learning	USN-3	As an ML engineer, I want to create a model using transfer learning (e.g., ResNet50) to classify diseases.	3	High	Yogendra
	Model Building using Image data	USN-4	As a developer, I want to use ImageDataGenerator for real-time data augmentation.	3	Medium	Nisyal
Sprint-3	Testing	USN-5	As a tester, I want to evaluate the model on validation/test data to ensure reliability.	2	High	Manoj
	Prediction	USN-6	As a user, I want the model to predict the disease when an image is input.	2	High	Yogendra
Sprint-4	Application Building	USN-7	As a developer, I want to build a simple web or mobile application to upload and analyze poultry images.	3	High	Nisyal
		USN-8	As a user, I want to view disease classification results and basic recommendations.	2	High	Yogendra

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 Release Date (Actual)
Sprint-1	7	4 Days	17 June 2025	20 June 2025	7	20 June 2025
Sprint-2	6	4 Days	21 June 2025	24 June 2025	6	25 June 2025
Sprint-3	4	2 Days	25 June 2025	26 June 2025	4	27 June 2025
Sprint-4	5	4 Days	26 June 2025	29 June 2025	5	01 July 2025

Velocity and Burndown Chart to be calculated after Sprint completion:

Velocity:
Imagine we have a 11-day sprint duration, and the velocity of the team is 22 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$\mathbf{AV} = \frac{sprint\ duration}{velocity} = \frac{22}{11} = 2$$

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts