Project Planning Phase

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

Date	20 July 2025
Team ID	LTVIP2025TMID41443
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)

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	As a developer, I can collect images for all 4 disease classes and organize them into folders.	2	High	2
Sprint-1		USN-2	As a developer, I can load the image dataset into the training pipeline	1	High	2
Sprint-1	Data Preprocessing	USN-3	As a system, I can handle missing or corrupted images to ensure clean input for training.	3	Medium	1
Sprint-1		USN-4	As a developer, I can convert class labels to categorical format for model training.	2	Medium	2
Sprint-2	Model Development	USN-5	As a system, I can classify poultry diseases using a trained transfer learning model	5	High	1
Sprint-2		USN-6	As a developer, I can validate model accuracy using accuracy score, confusion matrix, and graphs.	3	High	2
Sprint-2	Deployment	USN-7	As a user, I can access the HTML-based front-end for uploading images and viewing results.	3	Medium	1
Sprint-2		USN-8	As a developer, I can deploy the trained model using Flask backend for real-time predictions.	5	High	3

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	20	6 Days	29 June 2025	4 July 2025	20	20 July 2025
Sprint-2	20	6 Days	5 July 2025	10 July 2025	20	20 July 2025
Sprint-3	20	6 Days	11 July 2025	16 July 2025	18	20 July 2025
Sprint-4	20	6 Days	17 July 2025	20 July 2025	16	20 July 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)

Total Story Points Completed = 74

Number of Sprints = 4

✅ **Velocity = 74 ÷ 4 = 18.5 story points per sprint**