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

Date	29 June 2025
Team ID	LTVIP2025TMID46471
Project Name	Hematovision : advanced blood cell classification using transfer learning
Maximum Marks	5 Marks

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

Product Backlog, Sprint Schedule, and Estimation

Product Backlog

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Data Preparation	USN-1	Upload blood cell images for classification.	3	High
Sprint-1	Model Integration	USN-2	Integrate the pre-trained MobileNetV2 model for classification.	4	High
Sprint-1	Backend Setup	USN-3	Set up Flask backend to handle image upload and inference.	5	High

Sprint					
Sprint-2	Frontend Integration	USN-4	Design the web interface for blood cell image upload and result display.	4	High
Sprint-2	Prediction Display	USN-5	Display classification result (blood cell type) on the frontend.	3	High
Sprint-2	UI Testing	USN-6	Test the frontend for proper display and interaction.	3	High
Sprint-3	Model Evaluation	USN-7	Evaluate the model accuracy with test data and optimize.	4	Medium
Sprint-3	Dashboard Setup	USN-8	Set up final result dashboard for predictions and performance metrics.	4	Medium

Sprint		User Story Number	User Story / Task	Story Points	Priority
Sprint-3	Testing & Optimization	USN-9	Perform performance testing of the backend and model integration.	4	Medium
Sprint-4	Documentation	USN-10	Create documentation for setup, usage, and results.	6	High
Sprint-4	Final Review	USN-11	Review and finalize the project for submission.	6	High

Sprint Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	20 June 2025	25 June 2025	25 June 2025
Sprint-2	18	6 Days	26 June 2025	1 July 2025	1 July 2025
Sprint-3	16	6 Days	2 July 2025	7 July 2025	7 July 2025
Sprint-4	12	6 Days	8 July 2025	13 July 2025	13 July 2025

Project Tracker, Velocity & Burndown Chart

Assuming the team's velocity is 20 (points per sprint), the team's average velocity (AV) per iteration unit (story points per day) is calculated as follows:
Average Velocity (AV) = Total Story Points / Sprint Duration (in days)
AV = 20 / 10 = 2 points per day.

Burndown Chart

A burndown chart is a graphical representation of work left to do versus time. It is used to track progress over time in an agile project, showing how much work remains to be done for each sprint.
The chart helps visualize the rate of progress, identify any issues with the project timeline, and ensure that work is completed on time.