

## Project Planning Phase

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

Date	20 January 2026
Team ID	LTVIP2026TMIDS76912
Project Name	HematoVision: Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	5 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Image Upload	USN-1	As a user, I can upload a blood cell image through the web interface for analysis	3	High	Team
Sprint-1	Image Upload	USN-2	As a user, I can view a preview of the uploaded blood cell image before prediction	2	Medium	Team
Sprint-1	Model Integration	USN-3	As a system, I can send the uploaded image to the CNN model for classification	3	High	Team
Sprint-1	Prediction	USN-4	As a user, I can receive predicted blood cell type with confidence score	3	High	Team
Sprint-1	UI Results	USN-5	As a user, I can view classification results clearly on the interface	2	High	Team
Sprint-2	Dataset Handling	USN-6	As a system, I can load and preprocess blood cell images for training	3	Medium	Team
Sprint-2	Model Training	USN-7	As a developer, I can train the VGG16 transfer learning model on dataset	5	High	Team
Sprint-2	Model Evaluation	USN-8	As a developer, I can evaluate model accuracy and performance metrics	3	Medium	Team

Sprint-2	Storage	USN-9	As a system, I can store prediction results for later review	2	Low	Team
Sprint-2	Error Handling	USN-10	As a user, I receive error messages if image upload or prediction fails	2	Medium	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	20	6 Days	01 Feb 2026	06 Feb 2026	20	06 Feb 2026
Sprint-2	20	6 Days	08 Feb 2026	13 Feb 2026	18	14 Feb 2026
Sprint-3	20	6 Days	15 Feb 2026	20 Feb 2026	20	20 Feb 2026
Sprint-4	20	6 Days	22 Feb 2026	27 Feb 2026	19	28 Feb 2026

### Velocity – HematoVision

Team velocity per sprint  $\approx$  **20 story points**

Average velocity per day:

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{6}{20} = 0.3$$

### Burndown Chart:

The burndown chart illustrates the remaining story points across the sprint duration for the HematoVision project. The planned line shows the ideal rate of task completion, while the actual line represents the team's real progress. The chart indicates consistent reduction in remaining work, demonstrating steady development progress with minor deviation near the sprint end.

