Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date: 15 February 2025
Team ID:LTVIP2026TMIDS91486
Project Name: HematoVision – Intelligent Blood Cell Classification System
Maximum Marks: 5 Marks

Product Backlog, Sprint Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
☐ **Sprint-1 – Dataset & Preparation**						
Sprint-1	Dataset Acquisition	USN-1	Gathering blood cell image dataset	3	High	
Sprint-1	Dataset Acquisition	USN-2	Organizing dataset into class folders	2	High	
Sprint-1	Dataset Acquisition	USN-3	Loading dataset into ML environment	1	High	
Sprint-1	Data Preparation	USN-4	Image resizing & normalization	3	High	
Sprint-1	Data Preparation	USN-5	Applying data augmentation	5	Medium	
Sprint-1	Data Preparation	USN-6	Splitting dataset (Train/Test)	2	High	
☐ **Sprint-2 – Model Development**						
Sprint-2	Model Development	USN-7	Loading pretrained CNN (MobileNetV2)	2	High	
Sprint-2	Model Development	USN-8	Adding custom classification layers	3	High	

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Model Development	USN-9	Compiling transfer learning model	1	High	
Sprint-2	Model Training	USN-10	Training classification model	5	High	
Sprint-2	Model Evaluation	USN-11	Evaluating accuracy & loss	3	High	
Sprint-2	Model Management	USN-12	Saving trained model	1	High	
☐ Sprint-3 – Prediction Pipeline						
Sprint-3	Prediction System	USN-13	Implementing prediction logic	3	High	
Sprint-3	Prediction System	USN-14	Displaying predicted cell type	2	High	
Sprint-3	Prediction System	USN-15	Displaying confidence score	2	Medium	
Sprint-3	Error Handling	USN-16	Handling invalid image inputs	3	High	
Sprint-3	Optimization	USN-17	Improving inference speed	5	Low	
☐ Sprint-4 – UI Integration & Refinement						
Sprint-4	UI Enhancement	USN-18	Improving user interface design	3	Medium	
Sprint-4	UI Enhancement	USN-19	Adding loading indicators	2	Medium	
Sprint-4	System Refinement	USN-20	Improving result visualization	3	Medium	
Sprint-4	System Testing	USN-21	End-to-end system testing	5	High	

Project Tracker, Velocity & Burndown Data

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date (Actual)
Sprint-1	18	6 Days	15 Feb 2025	20 Feb 2025	18	20 Feb 2025
Sprint-2	20	6 Days	22 Feb 2025	27 Feb 2025	20	27 Feb 2025
Sprint-3	16	6 Days	01 Mar 2025	06 Mar 2025	16	06 Mar 2025
Sprint-4	14	6 Days	08 Mar 2025	13 Mar 2025	14	13 Mar 2025

Velocity Calculation

Velocity = Total Story Points Completed / Number of Sprints
Total Story Points =
18 + 20 + 16 + 14 = 68
Number of Sprints = 4
Velocity =
68 / 4 = 17 Story Points per Sprint

Average Velocity per Day

Sprint Duration = **6 Days**

Average Velocity per Day =
17 / 6 ≈ **2.8 Story Points per Day**

Velocity Interpretation

Your team's velocity is:

17 Story Points per Sprint

This indicates your team can reliably complete work worth **~17 story points** every sprint.

Burndown Chart Concept

Burndown Chart tracks:

✔ Work Remaining vs Time
✔ Sprint Progress
✔ Task Completion Rate

For HematoVision:

• Sprint begins with total story points
• Story points reduce as tasks complete
• Ends at zero when sprint completes

HematoVision Sprint Burndown Chart