

Sprint Planning Document

Project Name: HematoVision – Blood Cell Classification

Team ID: LTVIP2026TMIDS47037

Planning Logic

- A **Sprint** is a fixed duration in which the team completes a set of tasks or user stories.
- An **Epic** is a large feature or module broken into smaller user stories spread across sprints.
- A **Story** is a smaller, manageable task that contributes to completing an Epic.
- A **Story Point** represents the **effort required** to complete a user story (usually based on the Fibonacci series – 1, 2, 3, 5).

Task Type Effort Description

1	Very Easy Task
2	Normal Task
3	Moderate Task
5	Difficult Task

Sprint 1

Epic 1: User Authentication & Access Control

User Story Number	Task / User Story	Story Points
USN-1	As an Admin, I can create user accounts for Lab Technicians and Doctors	2
USN-2	As a System, I can authenticate users securely using email and password	3
USN-3	As an Admin, I can assign roles (Admin, Technician, Doctor) to control access	3

Epic 2: Image Upload & Preprocessing

User Story Number	Task / User Story	Story Points
USN-4	As a Lab Technician, I can upload blood smear images in standard formats	3
USN-5	As a System, I can validate uploaded images (resolution, file type)	3
USN-6	As a System, I can preprocess images for AI classification	2

Epic 3: AI Model Integration

User Story Number	Task / User Story	Story Points
USN-7	As a System, I can classify blood cells into RBC, WBC, and Platelets	3
USN-8	As a System, I can generate a report with cell counts and images	2

✅ Total Story Points in Sprint 1:

$2 + 3 + 3 + 3 + 3 + 2 + 3 + 2 = 21$

Sprint 2

Epic 4: Abnormality Detection & Cloud Storage

User Story Number	Task / User Story	Story Points
USN-9	As a System, I can detect abnormal or rare cells using AI	3
USN-10	As a Doctor, I can review flagged abnormalities and add remarks	3
USN-11	As a System, I can store reports and images securely in cloud storage	2

Epic 5: Dashboard & Reporting

User Story Number	Task / User Story	Story Points
USN-12	As a Doctor, I can view patient-wise reports	3
USN-13	As a Lab Technician, I can view classification analytics	3
USN-14	As an Admin, I can monitor overall system performance via dashboard	5

Epic 6: Testing & Optimization

User Story Number	Task / User Story	Story Points
USN-15	As a Team, we can perform model accuracy testing and bug fixing	2
USN-16	As a Developer, I can optimize model speed and accuracy	3

✅ Total Story Points in Sprint 2:

$3 + 3 + 2 + 3 + 3 + 5 + 2 + 3 = 24$

Total Story Points and Velocity

Sprint	Total Story Points	Duration	Start Date	End Date	Points Completed
Sprint 1	21	7 Days	01 Mar 2026	07 Mar 2026	21
Sprint 2	24	7 Days	09 Mar 2026	15 Mar 2026	24

✅ Total Story Points = 21 + 24 = 45

✅ Number of Sprints = 2

✅ Velocity = Total Story Points / Number of Sprints = $45 / 2 = 22.5$ story points per sprint

Sprint Summary

- **Sprint 1 Focus:** Core functionality (Authentication, Upload, AI Model Integration)
- **Sprint 2 Focus:** Advanced features (Abnormality Detection, Dashboard, Testing & Optimization)
- **Velocity:** Stable at 22.5 story points per sprint
- **Next Steps:** Future sprints can include enhancements like multi-language support, cloud APIs, and improved visualization.

