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

| Date | 10 February 2026 |
|---|---|
| Team ID | LTVIP2026TMIDS55747 |
| Project Name | Hematovision: Advanced Blood Cell Classification Using Transfer Learning |
| 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 (Epic 1) | USN-1 | As a developer, I can gather a dataset of 12,000+ blood cell images. | 2 | High | |
| Sprint-1 | Data Collection (Epic 1) | USN-2 | As a developer, I can load the images into the development environment. | 1 | High | |
| Sprint-1 | Data Preparation (Epic 2) | USN-3 | As a developer, I can filter corrupted or low-quality images. | 3 | High | |
| Sprint-1 | Data Preparation (Epic 2) | USN-4 | As a developer, I can label images into 4 distinct cell categories. | 3 | High | |
| Sprint-1 | Data Preparation (Epic 2) | USN-5 | As a developer, I can automate image resizing and normalization. | 3 | High | |
| Sprint-2 | Data Visualization (Epic 3) | USN-6 | As a user, I can view bar charts showing the distribution of cell types. | 2 | Medium | |
| Sprint-2 | Data Visualization (Epic 3) | USN-9 | As a user, I can view a confusion matrix heatmap of model performance. | 4 | Medium | |

# Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint | Total Story Points | Duration | Story Points Completed (as on Planned End Date) |
|---|---|---|---|
| Sprint-1 | 12 | 6 Days | 12 |
| Sprint-2 | 20 | 6 Days | 20 |

**Velocity Calculations**:

- **Total Story Points**: 32.

- **Total Sprints**: 2.

- **Average Velocity (AV)**: 16 Story Points per Sprint.

- **Daily Velocity (AV per day)**: For a 6-day sprint with 12 points, the formula is:

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$