PROJECT PLANNING PHASE

Agile Planning – Sprint & Velocity Estimation

Date: 15 February 2025
Team ID: LTVIP2026TMIDS91486
Project Name: HematoVision – Intelligent Blood Cell Classification System
Maximum Marks: 4 Marks

Agile Definitions

Sprint
A fixed period or duration in which a team works to complete a defined set of tasks.

Epic
A large body of work that is too big to complete in one sprint. It is divided into smaller tasks (stories).

Story (User Story)
A small, manageable task that contributes to completing an epic.

Story Point
A unit representing the effort required to complete a story.

Story Point Scale (Fibonacci Inspired)

Story Point	Effort Level
1	Very Easy Task
2	Normal Task
3	Moderate Task
5	Difficult Task

Sprint Planning

Sprint 1

Epic 1 – Dataset Acquisition

Story	Description	Story Points
USN-1	Gathering Blood Cell Images	**3**
USN-2	Organizing Dataset Structure	**2**
USN-3	Loading Dataset into Environment	**1**

Epic 2 – Data Preparation

Story	Description	Story Points
USN-4	Image Resizing & Normalization	3
USN-5	Data Augmentation	5
USN-6	Dataset Splitting (Train/Test)	2

☐ Total Story Points in Sprint 1

Sprint 1 Total =
3 + 2 + 1 + 3 + 5 + 2 = **16 Story Points**

☐ Sprint 2

Epic 3 – Model Development

Story	Description	Story Points
USN-7	Loading Pretrained CNN (MobileNetV2)	2
USN-8	Custom Classification Layers	3
USN-9	Model Compilation	1

Epic 4 – Model Training & Evaluation

Story	Description	Story Points
USN-10	Training Transfer Learning Model	5
USN-11	Accuracy & Loss Evaluation	3
USN-12	Saving Trained Model	1

Epic 5 – Prediction System

Story	Description	Story Points
USN-13	Implementing Prediction Pipeline	3
USN-14	Displaying Classification Results	2

☐ Total Story Points in Sprint 2

2 + 3 + 1 + 5 + 3 + 1 + 3 + 2 = **20 Story Points**

☐ Total Story Points

 Sprint   Story Points
Sprint 1 16
Sprint 2 20

Velocity Calculation

Velocity = Total Story Points Completed / Number of Sprints

Total Story Points =
16 + 20 = **36**

Number of Sprints =
2

Velocity =
36 / 2 = **18 Story Points per Sprint**

Velocity Interpretation

Your team's velocity is:

18 Story Points per Sprint

This indicates the team can reliably complete work equivalent to **18 story points** in each sprint.