Acceptance Testing
UAT Execution & Report Submission

Date	15 February 2026
Team ID	LTVIP2026TMIDS40157
Project Name	HematoVision: Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	4 Marks

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage, system validation, and open issues of the HematoVision project at the time of release for User Acceptance Testing (UAT).

HematoVision is an AI-based blood cell classification system developed using transfer learning to classify eosinophils, lymphocytes, monocytes, and neutrophils from microscopic blood smear images. The UAT ensures that the system meets functional requirements and performance expectations before deployment.

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2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved.

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	1	0	0	0	1
Duplicate	0	1	0	0	1
External	0	0	1	0	1
Fixed	2	3	4	5	14
Not Reproduced	0	0	1	0	1
Skipped	0	0	0	1	1
Won't Fix	0	1	0	0	1
Totals	3	5	6	6	20

Severity Levels:

- Severity 1: Critical (System crash, incorrect predictions)
- Severity 2: Major (Model misclassification edge cases)
- Severity 3: Minor (UI display issues)
- Severity 4: Cosmetic (Alignment, formatting issues)

Most defects were resolved before UAT release. No critical open issues remain.

3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested**.**

Section	Total Cases	Not Tested	Fail	Pass
Data Preprocessing	10	0	0	10
Model Training & Output	12	0	1	11
API Integration	8	0	0	8
Dashboard UI	6	0	0	6
Visualization Reports	15	0	1	14
Security (API Key)	5	0	0	5
Documentation	4	0	0	4

4. UAT Summary

- Total Test Cases: 60
- Passed: 58
- Failed: 2
- Not Tested: 0
- Overall System Stability: High
- Model Accuracy: Achieved target performance
- System ready for deployment after minor fixes