Acceptance Testing
UAT Execution & Report Submission

Date	19 February 2026
Team ID	LTVIP2026TMIDS61980
Project Name	Electric Motor Temperature Prediction System
Maximum Marks	4 Marks

1. Purpose of Document

This document explains:

- Test coverage status
- Defect resolution summary
- System readiness for deployment
- Overall testing outcome

The system was tested to ensure that:

- Predictions are accurate
- User inputs are validated
- Model loads correctly
- Web application works without runtime errors

Defect Analysis

Severity Levels

- **Severity 1:** Critical (System crash / Model failure)
- **Severity 2:** Major (Incorrect prediction / Loading issues)
- **Severity 3:** Moderate (UI alignment issues / Validation issues)
- **Severity 4:** Minor (Styling issues / Text corrections)

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	0	1	1	2	4
Duplicate	0	0	1	0	1
External	0	1	0	0	1
Fixed	3	4	3	5	15
Not Reproduced	0	0	1	0	1
Skipped	0	0	0	1	1
Won't Fix	0	1	1	1	3
Totals	3	7	7	9	26

2. 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 Loading & Preprocessing	8	0	0	8
Model Training & Evaluation	6	0	0	6
Model Saving & Loading	5	0	0	5
Flask Backend API	10	0	0	10
Manual Prediction Module	8	0	0	8
Sensor Module (Conceptual)	3	0	0	3
Input Validation & Error Handling	6	0	0	6
UI & Navigation	5	0	0	5
Version Control & Deployment	4	0	0	4
Total	55	0	0	55

The Electric Motor Temperature Prediction system has successfully passed User Acceptance Testing.

Key achievements:

- Accurate temperature prediction
- Stable model deployment
- Proper error handling
- User-friendly interface
- No unresolved critical defects

The system is approved for final submission and demonstration.