

Acceptance Testing UAT Execution & Report Submission

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| Date | 15 February 2026 |
| Team ID | LTVIP2026TMIDS80318 |
| Project Name | Weather-Based Prediction of Wind Turbine Energy Output: A Next-Generation Approach to Renewable Energy Management |
| Maximum Marks | 4 Marks |

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the Weather-Based Prediction of Wind Turbine Energy Output project at the time of release to User Acceptance Testing (UAT).

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 | 0 | 1 | 1 | 0 | 2 |
| Duplicate | 0 | 0 | 1 | 0 | 1 |
| External (API Issue) | 1 | 0 | 0 | 0 | 1 |
| Fixed | 2 | 3 | 4 | 3 | 12 |
| Not Reproduced | 0 | 0 | 0 | 0 | 0 |
| Skipped | 0 | 0 | 0 | 0 | 0 |
| Won't Fix | 0 | 0 | 1 | 0 | 1 |
| Totals | 3 | 4 | 7 | 3 | 17 |

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 |
|-----------------------------------|-------------|------------|------|------|
| Weather API Integration | 6 | 0 | 0 | 6 |
| Web Application (UI & Forms) | 8 | 0 | 0 | 8 |
| Machine Learning Model | 5 | 0 | 0 | 5 |
| Input Validation & Error Handling | 4 | 0 | 0 | 4 |

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|-------------------------------|---|---|---|---|
| Performance Testing | 3 | 0 | 0 | 3 |
| Deployment & Cloud Testing | 4 | 0 | 0 | 4 |
| Version Control & Code Review | 2 | 0 | 0 | 2 |