

Acceptance Testing
UAT Execution & Report Submission

Date	19 February 2026
Team ID	LTVIP2026TMIDS77028
Project Name	Rising Waters – A Machine Learning Approach to Flood Prediction
Maximum Marks	5 Marks

1. Purpose of Document

The purpose of this document is to explain the test coverage, defect status, and overall quality of the Rising Waters Flood Prediction System at the time of release for User Acceptance Testing (UAT).

This report summarizes defect resolution status and test case execution results for:

- Data preprocessing pipeline
- Machine Learning classification model
- Flask web application
- User interface and prediction output

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	1	1	1	4
Duplicate	0	0	1	0	1
External	0	1	0	0	1
Fixed	2	2	3	4	11

Not Reproduced	0	0	1	0	1
Skipped	0	0	0	1	1
Won't Fix	0	1	0	0	1

Total Defects Identified = 20

All critical defects have been resolved.

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 Loading & Preprocessing	8	0	0	8
Model Training & Evaluation	10	0	0	10
Flask Backend Integration	10	0	0	10
User Interface (HTML Form)	8	0	0	8
Input Validation & Error Handling	6	0	1	5
Prediction Output Verification	8	0	0	8

Test Case Summary

Total Test Cases = 50

Passed = 49

Failed = 1

Not Tested = 0

Version Control

Version: 1.0

Release Type: UAT Release

Deployment: Local Flask Server

Model Version: Trained Classification Model (.pkl file)

Final Testing Status

The Rising Waters Flood Prediction System is stable and ready for User Acceptance Testing (UAT).

- All major and critical defects have been resolved.
- Minor UI enhancements can be improved in future releases.
- The ML model demonstrates reliable classification performance.