Acceptance Testing

UAT Execution & Report Submission

Date	20 February 2025
Team ID	
Project Name	Online Payments Fraud Detection Using Machine Learning
Maximum Marks	4 Marks

1. Purpose of Document

The purpose of this document is to explain the test coverage and system validation results of the **Online Payments Fraud Detection Using Machine Learning** project during User Acceptance Testing (UAT). This phase ensures that the fraud detection system meets functional requirements, correctly identifies fraudulent transactions, and performs reliably in real-time scenarios.

2. Defect Analysis

The following table summarizes identified issues during testing and their resolution status.

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	5	3	1	1	10
Duplicate	0	1	1	0	2
External	1	1	0	0	2
Fixed	8	4	3	2	17
Not Reproduced	0	1	0	0	1
Skipped	0	0	1	0	1
Won't Fix	0	1	0	0	1
Totals	14	11	6	3	34

3. Test Case Analysis

This section summarizes executed test cases validating data preprocessing, model accuracy, prediction reliability, and system performance.

Section	Total Cases	Not Tested	Fail	Pass
Data Preprocessing Module	10	0	0	10
Feature Engineering	8	0	1	7
ML Model Training	12	0	1	11
Fraud Prediction Module	15	0	1	14
User Interface & Reports	6	0	0	6
System Integration	5	0	0	5
Security Validation	4	0	0	4

Conclusion

The UAT results confirm that the system successfully detects fraudulent transactions with high accuracy and meets the functional and performance expectations. The solution is ready for deployment in a controlled production environment.