

User Acceptance Testing (UAT)

Date	18 February 2026
Team ID	LTVIP2026TMIDS48224
Project Name	Online Payments Fraud Detection using Machine Learning
Maximum Marks	4 Marks

Project Overview

- Project Name: Online Payments Fraud Detection using Machine Learning
- Project Description: A Flask-based web app that predicts whether a transaction is Fraud or Not Fraud using a trained ML model from a Kaggle dataset.
- Project Version: 1.0
- Testing Period: 18 February 2026 to 20 February 2026

Testing Scope

Features and Functionalities Tested

- Home page loading
- Navigation to prediction page
- Transaction input form submission
- Model prediction using model.pkl
- Display of result page (Fraud / Not Fraud)
- Handling invalid or empty inputs

User Stories / Requirements Tested

- User can enter transaction details
- System predicts fraud status instantly
- User can clearly view the prediction result
- Smooth navigation between pages

Testing Environment

- URL/Location: <http://127.0.0.1:5000>
- Platform: Localhost (Flask Development Server)
- Browser Used: Chrome / Edge
- Backend: Python Flask
- Model: Random Forest (model.pkl)

Test Cases

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	Home Page Load	Open 127.0.0.1:5000	Home page should load	Loaded successfully	Pass
TC-002	Navigate to Prediction	Click Predict option	Prediction form should open	Opened correctly	Pass
TC-003	Valid Transaction Input	Enter all fields → Submit	Result page with prediction	Fraud/Not Fraud shown	Pass
TC-004	Empty Input Handling	Submit without values	Error / validation message	Validation worked	Pass
TC-005	Multiple Predictions	Submit different values repeatedly	Quick response each time	No delay observed	Pass

Bug Tracking

Bug ID	Bug Description	Steps to Reproduce	Severity	Status	Additional Feedback
BG-001	Page reloads after prediction	Submit form	Low	Open	Can improve UX with AJAX
BG-002	No input range validation	Enter extreme values	Medium	Open	Add frontend validation
BG-003	Basic UI alignment issue	Open on small screen	Low	Open	Improve CSS responsiveness

Sign-Off:

- **Tester Name:** K. Vijay Kumar
- **Date:** 20 February 2026
- **Signature:** VIJAYKUMAR

Notes

- All test cases covered positive and negative scenarios.
- Bugs logged with steps, severity, and current status.
- Project is ready for deployment, pending final sign-off from the project manager and product owner.