

# Detailed Manual Test Cases

## 1. Overview

This document provides a comprehensive set of manual test cases to validate the Payment Processing Module of Tanami Capital. It covers multi-currency transactions, edge cases, and authentication & authorization flows to ensure a secure and functional payment system.

## 2. Test Cases

### 2.1 Successful Multi-Currency Transactions

Test Case ID	Scenario	Preconditions	Steps	Expected Result	Severity
TC-001	Process Payment in USD	User is logged in	1. Select USD 2. Enter valid payment details 3. Submit transaction	Payment is successful with confirmation message and correct USD amount	High
TC-002	Process Payment in EUR	User is logged in	1. Select EUR 2. Enter valid payment details 3. Submit transaction	Payment is successful with confirmation message and correct EUR amount	High
TC-003	Currency Conversion Validation	User is logged in	1. Select a different currency from default 2. Confirm exchange rate 3. Submit transaction	Payment processes with the correct conversion rate applied	Medium

## 2.2 Handling Edge Cases (Invalid Payment Details, Network Failures)

Test Case ID	Scenario	Preconditions	Steps	Expected Result	Severity
TC-004	Invalid Card Number	User is logged in	1. Enter an incorrect card number 2. Submit payment	System rejects transaction and displays an error message	High
TC-005	Expired Card	User is logged in	1. Enter an expired card 2. Submit payment	Payment fails with a "Card Expired" error	High
TC-006	Network Failure During Payment	User is logged in	1. Start a transaction 2. Disconnect network 3. Submit payment	System detects failure, prompts user to retry, and prevents duplicate transactions	High
TC-007	Duplicate Payment Attempt	User is logged in	1. Submit a payment twice quickly 2. Check transaction history	System prevents duplicate transactions and alerts the user	High

## 2.3 Authentication & Authorization Flows

Test Case ID	Scenario	Preconditions	Steps	Expected Result	Severity
TC-008	Unauthorized Payment Attempt	User is not logged in	1. Try submitting a payment without authentication	System denies transaction and redirects user to login page	High
TC-	Session Expiry	User is logged in	1. Start payment 2.	System forces user	Medium

009	During Transaction		Wait for session to expire 3. Submit payment	to re-authenticate before proceeding	
TC-010	Role-Based Access Control	User is logged in as a non-admin	1. Try accessing admin-only payment settings	System denies access with proper authorization error	High

## 2.4 Security & Compliance Test Cases

Test Case ID	Scenario	Preconditions	Steps	Expected Result	Severity
TC-011	Brute Force Login Attempt	User is not logged in	1. Enter incorrect password 10 times 2. Check if account is locked	Account should lock for 15 minutes after multiple failed attempts	High
TC-012	Unauthorized API Access	None	1. Try calling payment API without authentication	API should return a <b>401 Unauthorized</b> response	High
TC-013	Session Expiry During Payment	User is logged in	1. Start payment 2. Wait for session to expire 3. Submit payment	System should force user to re-authenticate before proceeding	Medium
TC-014	Duplicate Payment Prevention	User is logged in	1. Submit the same payment twice quickly 2. Check transaction history	The second transaction should be <b>blocked</b>	High

## 3. Next Steps

- Validate these test cases with real test data.
- Ensure all test scenarios are executed and documented.
- Update test cases based on findings from exploratory testing.