TEST PLAN DOCUMENT

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1. Introduction
    a. Scope
        - Card payment Microservices and its Request to Integration layer
        - Customer Details Enrichment System response to Integration layer
        - Integration Layer request from Fraud Decisioning Engine
        - Response Back to Integration layer after Fraud Decisioning
        - Response back from Fraud decisioning to Card payment systems

    b. Quality Objective
        - Ensure the Application Under Test conforms to functional and non-functional requirements
        - Bugs/issues are identified and fixed before go live

    c. Entry Criteria
        - All applications/microservices (Integrations and Layers) are up and running
        - Proper test data is available
        - Review completed for test scenarios and approved
    Exit Criteria
        - All Test Scenarios were covered
        - All automation scripts were run successfully
        - No high priority/Severe defects are left open

2. Test Methodology
a. Test Levels (Including Automation and Manual testing)
   - Unit testing (Performed by Developers)
   - System Testing of Individual Units/Layers/Microservices
   - Regression Testing on Individual Units
   - Performance Testing
   - System Integration Testing (Testing must be done by combining all services and layers as a single unit
   - Regression Testing on Integrated Systems

b. Bug Life Cycle
   Below process must be followed, in case of any Bug found
   - Raise Bug if the expected criteria are not met
   - Assign Priority and Severity as Required
   - Assign the Bug to the Concern team/Developer and request for ETA
   - Now, Once the defect is fixed, retest it
   - Also retest the impacted functionality, If applicable
   - If worked fine, close the defect

3. Test Deliverables
- Test Plan
- Test Cases for Review and Execution
- Requirement Traceability Matrix
- Bug Reports
- Test Strategy
- Test Summary Report Sign off

4. Tools & Environment Needs

a. Testing Tools
- Requirement Tracking tool
  JIRA/Rally/Qtest
- Bug Tracking Tool
  JIRA/Rally
- For capturing Screenshots
- Database
- Pega
- Automation Tools
  Selenium Webdriver, Java, Rest Assured,
  Postman, Maven, GitHub, Jenkins, Log
  Analyser

b. Environment
- Card Payment services API contract
- Customer Enrichment API Contract
- Fraud decisioning application different
  environment to test its UI as well

c. Test Data Management
  Below test data required from different microservices
  and applications
- Valid Customer IDs
- Valid Transaction IDs
- Valid Card IDs
- Valid Merchant details and its ID
- Customer Details for each valid CARD IDs

5. Testing Timelines

Task Name	Start date	Finish Date	Effort	Comments

6. Approvals

	Name	Date
QA Manager		