**TEST PLAN**

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# **Introduction**

The purpose of this test plan is to outline the testing approach for the provided user stories to ensure the application meets business and functional requirements. The system under test includes critical functionalities such as secure login, account upgrades, SMS notifications, loan request approvals and third-party integrations for corporate investor validation.

# **Test Objectives**

The objective is to verify the system’s functionality, performance, security, and usability while ensuring that it adheres to the specified acceptance criteria and business rules.

* Login from New Device: Ensure secure OTP-based login and proper logout from other devices.
* Premium Account Upgrade: Validate document uploads, compliance reviews, and notifications.
* SMS Notifications: Ensure accuracy and timely delivery of approval/rejection messages.
* Departmental Approvals: Verify that approvals and timestamps are recorded correctly.
* Commercial Registration Verification: Ensure accurate validation of registration data.

# **Scope**

* **In-Scope:**
  + User login from a new device.
  + Premium account upgrade for individual investors.
  + Approval and rejection SMS notifications for loan requests.
  + Departmental loan approval tracking.
  + Corporate registration validation using a third-party service.
* **Out of Scope:**
  + Performance of third-party services (beyond system interactions).
  + Non-functional testing for features not mentioned in the user stories.

# **Test types**

* Functional Testing: Ensures all features work as expected.
* Integration Testing: Verifies data flow between the application and external systems.
* Security Testing: Focuses on vulnerabilities in critical areas like login and document uploads.
* Performance Testing: Assesses system responsiveness, particularly for high-traffic workflows.
* Usability Testing: Ensures ease of use and intuitive navigation for end-users.

# Testing Tools

Details of the tools used for different types of testing:

* Playwright for automation.
* Postman/Playwright for API testing.
* X-Ray & JIRA for test case management.
* JMeter for performance testing.
* OWASP ZAP for security assessments.

# Test Environment

* Devices: Desktop and Mobile (iOS/Android).
* Browsers: Chrome, Firefox, Safari.
* Environment: QA, Staging and Production

# Deliverables

* Detailed test cases covering all user stories.
* Defect and summary reports.
* Logs of test execution results.

# Entry And Exit Criteria

**Entry Criteria:**

* User stories and acceptance criteria approved.
* Test environment setup completed.

**Exit Criteria:**

* 100% critical test cases executed.
* At least 95% of total bugs are resolved.
* Test report approved by stakeholders.

# Risk Mitigation Plan

Identifies potential risks and strategies to handle them:

* Prioritize high-risk areas for early testing like OTP not received, SMS are delayed, Document upload failures etc.
* Maintain backups for test data and scripts.
* Ensure open communication channels for quick resolution of issues.