**Test Plan**

# Introduction:

This test plan outlines the testing strategy for multiple user stories (mentioned in test\_story.pdf). The goal is to ensure that the application functions as intended and meets the specified acceptance criteria for each user story.

# Objectives:

* Verify that registered users can log in from a new device and that their account is logged out from all other devices.
* Validate that verified individual users can upgrade their accounts to premium status.
* Ensure loan requesters receive timely notifications regarding their loan status.
* Confirm that department staff can review and approve loan requests.
* Validate the commercial registration verification process for corporate investors.

# Tasks:

* Review user stories and acceptance criteria.
* Define test cases for each user story based on acceptance criteria.
* Execute test cases and document results.
* Report any defects identified during testing.

# Scope

**In Scope:**

* User login functionality from a new device.
* Account upgrade process for individual investors.
* Notification system for loan request approvals and rejections.
* Department review and approval process for loan requests.
* Commercial registration verification for corporate investors.

**Out of Scope:**

* Any task or scope which is not mentioned in In scope section.

# Test Strategy

**Testing Types:**

* **Functional Testing:** To verify that all functionalities behave as expected.
* **Usability Testing:** To ensure the user interface is user friendly and as per requirement.
* **Security Testing:** To confirm that user accounts are secure and properly logged out.

**Testing** **Levels:**

* **Unit Testing:** Conducted by developers to ensure individual components work correctly.
* **Integration Testing:** To verify that different modules (e.g., login, notifications) work together.
* **System Testing:** End-to-end testing of the entire application.

# Test Environment

Based on the organizational requirementa e.g. Development, QA, Staging and Production and different platforms, OS ETC

# Test Data

**Test Accounts:**

* Valid registered user accounts for successful login testing.
* Invalid user accounts for negative testing of login.
* Valid commercial registration numbers for corporate investor verification.
* Invalid commercial registration numbers for corporate investor verification.
* Verified individual investor accounts for account upgrade testing.
* Unverified individual investor accounts for negative testing of account upgrade.
* Multiple Loan requests with
* Single approval status for notification and department approval.
* Single approval status for notification and department denial.
* Various approval statuses for notifications and department approvals.
* Various approval statuses for notifications and department denials.

# Acceptance Criteria

Acceptance criteria documented here for all mentioned user stories (test\_story.pdf)

* User Story: User Login from a New Device:
  + Successful OPT Send and Receive Notification
  + Successful login
  + Successful login notification on screen
  + Successful login notification to user on successful login
    - SMS notification sent after successful login.
  + Success logout from other devices
  + Successful redirection to the home page
* User Story: Individual Investor - Upgrade to Premium:
  + Successful verification of upgradation to premium.
    - Successful verification of provided selections.
    - Successful uploading of documents and prove of ownership of those documents.
  + Notification on successful documents upload.
* User Story: Approvals Notifications:
  + In case of Approval
    - Successful processing of final approval
    - SMS notification sent upon approval indicating the approval status.
  + In case of rejection
    - SMS notification send upon rejection indicating the proper reason of rejection.
    - Relationship managers communicate rejections with reasons to requester.
* User Story: Departments Approval:
  + Successful Approval of loan requests for
    - Loan request in review status.
  + Successful changing of status to Approve in system.
  + View approval history
    - Loan request status history.
    - All departments list that has approved the request.
    - Details of approver for each department approval
* User Story: Corporate Investor - Commercial Registration Verification:
  + Successful Integration with [X]
  + Successful verification of valid commercial registration numbers
  + After rejection on providing invalid commercial registration number from [X], successful reverification of valid commercial registration numbers with new number
  + After successful commercial registeration numbers verification:
    - Success notification to user that user will not be able to proceed, when company start date < 2 years
    - Successfully move to next step when start date > 2 years

# Test Cases

See attached document (Testcases.xlsx)

# Schedule

* Test Planning: [Start Date] - [End Date]
* Test Execution: [Start Date] - [End Date]
* Test Closure: [End Date]

# Resources

* Testers: [Names of the testing team members]
* Tools: [List of testing tools to be used, e.g., Selenium for automation, Postman for API testing]
* Back up Testers: [Names of the testing team members]

# Risk Management

* Potential Risks:
  + Delay in SMS delivery due to gateway issues.
  + User interface changes affecting test execution.
  + Dependency on Third party service [X]
  + Tester unavailability due to any unforeseen issues
* Mitigation Strategies:
  + Monitor SMS delivery and have a backup method for OTP verification (e.g., email).
  + Maintain communication with the development team for any UI changes.
  + Proactively approach to third party service [X] team
  + Engage backup tester team