

Test Management Document

Test Plan for Provided User Stories

Objective: Define the approach, scope, resources, and schedule for testing the provided user stories to ensure quality, minimize risks, and meet functional and non-functional requirements.

1. Scope:

- **User Stories:**

- Registered User Login From a New Device
- Individual Investor - Upgrade to Premium
- Approvals Notifications
- Departments Approval
- Corporate Investor - Commercial Registration Verification

2. Testing Phases:

- **Phase 1: Functional Testing**

- Verify basic functionality for each user story.

- **Phase 2: Integration Testing**

- Test integration points between modules and external APIs.

- **Phase 3: End-to-End Testing**

- Validate workflows and ensure system-level testing for user stories.

3. Resources:

- **Team:**

- QA Test Lead
- 2 Manual Testers
- 1 Automation Tester

- **Tools:**

- JIRA for bug tracking.
- Postman for API testing.
- Selenium for UI automation.
- Excel for test case documentation.

- **Environment:**

- Dev and staging environments for testing.

4. Test Deliverables:

- Test cases and execution reports.
- Bug reports with risk prioritization.
- Final test summary report.

Risk-Based Testing (RBT)

Objective: Prioritize testing efforts on the areas with the highest impact and risk.

1. Risk Prioritization:

- **High Risk:**
 - Registered User Login From a New Device
 - Risk: Security vulnerabilities and session handling issues.
 - Corporate Investor - Commercial Registration Verification
 - Risk: Dependency on third-party APIs for data validation.
- **Medium Risk:**
 - Approvals Notifications
 - Risk: Accuracy and timeliness of notifications.
 - Individual Investor - Upgrade to Premium
 - Risk: Validation of user-uploaded documents.
- **Low Risk:**
 - Departments Approval
 - Risk: UI and timestamp accuracy.

2. Mitigation Strategy:

- Assign more test cases to high-risk areas.
- Focus on regression and exploratory testing for medium and low-risk areas.
- Perform mock tests for third-party integrations.

Test Cases

Acceptance and Edge Cases:

1. Registered User Login From a New Device

- **Acceptance Test Cases:**
 1. Verify successful login with valid credentials.
 2. Validate OTP generation and sending to the registered user.
 3. Ensure other logged-in devices are logged out after login.
- **Edge Cases:**
 1. Attempt login with invalid credentials.
 2. Simulate login attempts with expired OTP.
 3. Test login functionality in low network connectivity.

2. Individual Investor - Upgrade to Premium

- **Acceptance Test Cases:**
 1. Validate successful document upload for upgrade.
 2. Verify notifications are sent to the compliance team and relationship manager.
- **Edge Cases:**
 1. Attempt to upload unsupported file formats.
 2. Exceed file size limits during upload.

3. Approvals Notifications

- **Acceptance Test Cases:**
 1. Verify SMS notifications are sent upon loan approval.
 2. Check the content of SMS notifications for accuracy.
- **Edge Cases:**
 1. Test notification functionality when phone numbers are missing.
 2. Simulate failure in SMS delivery and retry scenarios.

4. Departments Approval

- **Acceptance Test Cases:**
 1. Ensure loans can be approved by departments.
 2. Verify timestamps for approvals are recorded correctly.
- **Edge Cases:**
 1. Handle simultaneous approvals from multiple departments.
 2. Attempt approvals for a non-existent loan request.

5. Corporate Investor - Commercial Registration Verification

- **Acceptance Test Cases:**
 1. Validate registration details with the third-party service.
 2. Ensure retries for invalid registration numbers.
- **Edge Cases:**
 1. Test for invalid or missing registration numbers.
 2. Simulate failure scenarios for third-party API calls.

Test Runs

Objective: Execute test cases in a sequence based on priority and risk assessment.

1. Preparation:

- Prioritize high-risk features for execution.
- Group related test cases into batches for efficient execution.

2. Execution Steps:

- Execute test cases in the staging environment.
- Record actual results for each test case in the test execution report.
- Log any defects found in JIRA with high-detail screenshots or logs.

3. Test Run Example:

- **Batch 1:** Registered User Login From a New Device
 - Include acceptance test cases for login functionality.
- **Batch 2:** Notifications and Document Upload
 - Validate SMS notifications and document uploads.
- **Batch 3:** Approvals and Commercial Verification
 - Focus on end-to-end workflow validation.