

TEST PLAN DOCUMENT

Project: Loan Application Form

Version: 1.0

Prepared By: QA Team

Approved By: Test Manager

Date:

1. Introduction

This Test Plan outlines the strategy, scope, objectives, resources, assumptions, and schedules for testing the Loan Application Form hosted at:

https://github.com/krishnasoftwaretrainer/RamanaSoft_QA_Internship_LoanApp.git

The testing effort aims to validate that the Loan Application module functions as per defined requirements and meets quality standards before release.

2. Objectives

The objectives of this testing effort are:

1. To validate all functional requirements of the Loan Application Form.
 2. To ensure all field-level validations (mandatory and conditional) operate as expected.
 3. To verify correct error handling and boundary conditions.
 4. To confirm usability, accessibility, and form submission behavior.
 5. To identify and report defects early and ensure they are resolved.
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3. Scope of Testing

3.1 In Scope

- UI validation for all input fields
- Field-level validation rules
- Positive and negative functional test scenarios
- Boundary Value Analysis and Equivalence Partitioning
- Mandatory field indicators

- Error message validation
- Form submission behavior
- Input formatting validation
- Browser compatibility (Chrome, Edge, Firefox – latest versions)
- Usability testing (basic layout, readability, spacing)

3.2 Out of Scope

- Backend database verification
 - Loan approval workflows
 - Email notifications or backend triggers
 - Performance and load testing
 - Mobile-responsive testing (not required unless stated)
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4. Test Items

The following form components will be tested:

1. Customer Name

- 2–64 characters
- Alphabets + spaces only

2. Account Number

- Exactly 6 digits
- First digit cannot be 0

3. Loan Amount Requested

- Minimum: \$500
- Maximum: \$9000

4. Term of Loan

- Range: 1–30 years

5. Monthly Repayment

- Minimum: \$10

6. Submit button behavior

- Enabled/disabled conditions
 - Validation messages
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5. Test Approach

A structured testing approach will be followed:

5.1 Functional Testing

- Validate all business rules and field validations.

5.2 Boundary Value Analysis

Examples:

- Customer Name: 1, **2**, 3, 63, **64**, 65
- Loan Amount: 499, **500**, 501, 8999, **9000**, 9001

5.3 Equivalence Partitioning

Partition input values into valid and invalid classes for each field.

5.4 Negative Testing

Examples:

- Alphabetic characters in Account Number
- Special characters in Customer Name
- Loan Amount <500
- Missing required fields

5.5 Regression Testing

Performed after defect fixes.

5.6 Usability Testing

- Alignment
 - Font consistency
 - Visibility of mandatory markers
 - Accessibility of error messages
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6. Test Deliverables

- Test Plan
 - Test Scenarios
 - Test Cases
 - Test Data Sheet
 - Requirement Traceability Matrix (RTM)
 - Test Execution Report
 - Defect Report (JIRA)
 - Retest Report
 - Regression Test Report
 - Test Closure Report
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7. Suspension & Resumption Criteria

Suspension Conditions

Testing will be suspended if:

- Environment is unstable or inaccessible
- Build is not testable due to blockers
- Critical defects prevent further execution

Resumption

Testing resumes when:

- Blockers are resolved
 - New stable build is provided
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8. Environmental Needs

Hardware

- Standard Windows 10/11 laptop
- Minimum 8 GB RAM

Software

- Browsers: Chrome, Edge, Firefox
 - URL: Loan Application Build
 - Tools:
 - JIRA (Defect Management)
 - MS Excel/Google Sheets (Test Cases)
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9. Roles & Responsibilities

Role	Responsibility
Test Manager	Approve test plan, manage testing effort
QA Engineer	Prepare test cases, execute, log defects
Developer	Fix defects and support clarifications
Business Analyst	Validate requirement completeness

10. Risks & Mitigation

Risk	Impact	Mitigation
Misinterpreted validation rules	High	Request clarification from BA
Unstable test environment	Medium	Pre-run smoke testing
Delayed defect fixes	High	Prioritize based on severity

11. Test Schedule

Activity	Timeline
Requirement Review	Day 1
Test Planning	Day 1–2
Test Case Design	Day 2–3
Environment Setup	Day 3
Test Execution	Day 4–6

Activity	Timeline
Defect Retesting & Regression	Day 6–7
Closure Activities	Day 7

(Timelines can be adjusted based on project needs.)

12. Exit Criteria

Testing will be considered complete when:

1. All planned test cases are executed.
2. All critical/high defects are closed.
3. Regression testing is complete.
4. Test metrics are documented.
5. Sign-off received from stakeholders.

13. Test Metrics

Metrics to be captured:

- Test Case Pass/Fail Percentage
- Defect Density
- Defect Severity Index
- Requirements Coverage
- Regression Defect Count

14. Approval

Name	Role	Signature	Date
Test Manager	Approver		
QA Lead	Reviewer		
Business Analyst	Reviewer		