

Post Release QA Loan Management System (Waterfall)

Version: 1.0

Release Model: Sequential SDLC (Waterfall)

Document Type: Post Release QA Document

Prepared By: QA Analyst

Reviewed By: Product Owner

Approval Status: Approved for System Testing

Revision History

| Version | Date | Author | Description |
|---------|------------|-------------------------|--|
| 1.0 | 2026-02-18 | Sanyogita Herwathe (QA) | Initial Waterfall Enterprise Release Version |

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Approval & Sign-Off

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| Prepared By: QA – Sanyogita Herwathe |
| Reviewed By: Product Owner |
| Approved By: Engineering Manager |
| Approval Status: Approved for Release Governance |

1. Objective

To evaluate release stability, defect containment efficiency, and production-readiness effectiveness after deployment.

2. Release Snapshot

- **Final Build:** 3.1.06
- **Total Defects:** 36
- **Critical Resolved:** 100%
- **High Resolved:** 100%
- **Medium/Low Deferred:** Business-approved

3. Production Leakage Analysis

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|--|
| Post-release monitoring period: 2 weeks |
| Findings: |
| • No Critical defects reported |
| • No High severity escalations |
| • No login or loan processing failures |
| • No financial calculation discrepancies |
| Leakage Rate: 0% Critical |

4. Quality Stabilization Curve

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|---|
| Trend Observed: |
| • High defect density in early integration builds |
| • Sharp decline after build 3.1.02 |
| • Stable regression phase in 3.1.04+ |
| • Zero new defects in final build |
| Conclusion: |
| Quality matured progressively across lifecycle. |

5. Root Cause Patterns Identified

Functional Logic Gaps

- Loan duplication validation missing
- Central Bank rate redirect error

Backend Handling Issues

- 500 server error during save
- Data binding mismatch in Customer resource

UI Configuration Issues

- Misspelled labels
- Disabled fields
- Search filter logic limitations

6. Preventive Measures Introduced

Based on analysis:

- ✓ Added validation checkpoints in design review
- ✓ Introduced early API testing
- ✓ Strengthened regression checklist
- ✓ Added negative test scenarios
- ✓ Enforced peer review of UI labels

7. Process Improvements for Future Releases

- Earlier API contract validation
- Shift-left test case review
- Automated smoke suite for core flows
- Pre-release build stability gate

8. Lessons Learned

- Early build instability is expected in integration phases
- Core financial validation needs stronger boundary testing
- Search and filter logic require dedicated test design
- Critical flows must have automation coverage

9. Executive Summary

The release demonstrated:

- ✓ Strong defect governance
- ✓ Effective triage control
- ✓ Zero critical leakage
- ✓ Progressive quality stabilization
- ✓ Enterprise-level QA discipline

The release was successfully deployed with controlled risk and high confidence.