Test Plan for Guru99 Banking Account

1. Introduction

This test plan outlines the approach, strategies, and resources for testing the Guru99 Banking Account application. Its purpose is to ensure the quality, functionality, and security of the application.

1.1 Scope

The scope includes comprehensive testing of the Guru99 Banking Account application's features to ensure they perform as expected under various scenarios.

1.1.1 In Scope

- Account Management: Creation, editing, and deletion of customer accounts (savings and current accounts)

- Financial Transactions: Balance inquiry, fund transfers, deposit, and withdrawal operations

- Statements and Records: Mini statements (last 5 transactions), customized statements

- Security Measures: Password change functionality

1.1.2 Out of Scope

- User Interface Design

- Third-party Hardware Integrations

- Third-party Software Integrations

- Database Logical Structure

- Performance under High Loads

1.2 Quality Objectives

- Verify features work correctly

- Validate application security

- Test system performance under normal and peak loads

1.3 Roles and Responsibilities

- Test Manager: Overall management, strategy, coordination

- Testers: Execute test cases, report defects, verify fixes

- Developer in Test: Test case design, automation, scripting

- Test Administrator: Setup and maintain test environment

- SQA Members: Quality checks, compliance assessment

2. Test Methodology

2.1 Overview

Combines manual and automated testing techniques for thorough coverage.

2.2 Test Levels

- Unit Testing: Test individual components in isolation

- Integration Testing: Verify interactions between integrated modules

- System Testing: Test entire application end-to-end

- API Testing: Comprehensive validation of application APIs

2.3 Bug Triage

Categorize defects based on severity and impact. Critical defects addressed with higher priority.

2.4 Suspension Criteria and Resumption Requirements

Suspend testing if critical defects severely hamper essential functionality. Resume after resolution and retesting.

2.5 Test Completeness

Testing complete when all test cases executed, defects resolved, retested, and exit criteria met.

3. Test Strategy

3.1 Test Environment

- Database Server: MySQL

- Web Server: Apache

- OS: Windows 7

- Network: LAN, Internet

- Tools: In-house test automation framework, Bug Tracking Tool (e.g., JIRA)

3.2 Test Data

- Generate diverse data to cover customer profiles, transactions, and scenarios.

3.3 Test Execution

- Manual Testing: Testers execute cases manually

- Automated Testing: Developer in Test creates automated regression test suite

4. Test Schedule

- Planning: [Start Date] to [End Date]

- Test Case Design: [Start Date] to [End Date]

- Test Execution: [Start Date] to [End Date]

- Defect Resolution: Ongoing during testing

5. Test Deliverables

- Test Plan

- Test Cases Document

- Test Design Specs

- Test Execution Results

- Defect Reports

- Automation Scripts (if applicable)

6. Exit Criteria

- Defects resolved, retested, verified

- Test coverage meets criteria

- Performance, security benchmarks met

7. Conclusion

This test plan outlines the comprehensive approach for testing the Guru99 Banking Account application. Adhering to this plan ensures application quality, functionality, and security in line with project requirements.