**Test Plan for Guru99 Bank Website**

**Course: AUTOMATED TESTING TOOLS**

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**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: [2023-08-05] to [2023-08-12]

- Test Case Design: [2023-08-05] to [2023-08-12]

- Test Execution: [2023-08-05] to [2023-08-12]

- 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.