# Test Plan for Secure Bank Website

## 1. Introduction

Project Name: Secure Bank Website

Purpose of Testing: To validate that all functionalities of the Secure Bank website work as intended and meet user requirements.

Scope:

* - Included: Functionalities related to user registration, login, password management, and transaction operations.
* - Excluded: Backend database performance tuning, third-party payment gateway testing.

Objective: To identify and resolve functional, usability, and security issues before deployment.

## 2. Test Scope

Features to be Tested:

* - User Registration
* - User Login
* - Forgot Password
* - Create New Transactions
* - Transactions

Features Not to be Tested:

* - Backend integrations with external APIs
* - Advanced analytics or reporting functionalities

## 3. Test Strategy

Levels of Testing: Unit Testing, Integration Testing, System Testing, User Acceptance Testing (UAT)

Types of Testing: Functional Testing, Usability Testing, Security Testing, Regression Testing

Test Approach: Combination of manual and automated testing. Automation for repetitive tasks such as regression tests.

## 4. Test Environment

Hardware Requirements: Windows 10 PC with 8GB RAM, Smartphones (iOS and Android)

Software Requirements: Chrome, Firefox, Safari, Edge; Selenium (automation), Postman (API testing)

Test Data: Sample user data for registration and login; Sample transaction data (valid and invalid).

## 5. Test Schedule

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| --- | --- | --- |
| Phase | Start Date | End Date |
| Test Planning | 26-Nov-2024 | 28-Nov-2024 |
| Test Case Design | 29-Nov-2024 | 30-Nov-2024 |
| Test Environment Setup | 30-Nov-2024 | 30-Nov-2024 |
| Test Execution | 01-Dec-2024 | 01-Dec-2024 |
| Bug Fix and Re-testing | 02-Dec-2024 | 02-Dec-2024 |
| Final Report and Sign-off | 03-Dec-2024 | 03-Dec-2024 |

## 6. Test Criteria

Entry Criteria:

* - Complete access to the Secure Bank website features.
* - Test environment fully set up.
* - Approved test cases.

Exit Criteria:

* - All critical and high-priority test cases executed.
* - 95% of critical defects resolved.
* - Test summary report approved by stakeholders.

## 7. Roles and Responsibilities

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| Role | Responsibility |
| Test Lead | Create the test plan, assign tasks, and track progress. |
| Test Engineers | Design and execute test cases, log defects, and verify fixes. |
| Developers | Resolve defects and provide support during testing. |
| Project Manager | Approve the test plan and ensure timely delivery. |

## 8. Risks and Mitigations

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| --- | --- |
| Risk | Mitigation |
| Delays in setting up the test environment | Start environment preparation early and test in parallel. |
| Scope creep during testing | Clearly define and lock the test scope upfront. |
| High defect count in critical features | Prioritize critical defect resolution early. |

## 9. Tools

Test Management: Jira or TestRail

Automation: Selenium WebDriver

API Testing: Postman

Bug Tracking: Jira

Security Testing: OWASP ZAP

## 10. Deliverables

Test Plan Document

Test Cases and Scripts

Test Results Report

Defect Log

Final Test Summary Report

## 11. Approval

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| --- | --- | --- |
| Stakeholder | Name | Signature |
| QA Lead | Jishan Ahmed Rabbi | Jishan |
| Project Manager | Ehsanul Sabbir | Sabbir |