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
Phase Start Date End Date
Test Planning 25-Dec-2024
Test Case Design 25-Dec-2024
Test Environment Setup 26-Dec-2024
Test Execution 27-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

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

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

Stakeholder Name Signature

QA Lead Koli rani pal

Project Manager Ehsanul Sabbir Sabbir