Test Plan for SecureBank

Test Plan ID: TP-SecureBank-001

Introduction:

This test plan explains how the SecureBank web application will be tested, covering the goals, key areas and steps to check its features, security, speed, and compatibility. Since it handles financial transactions, it's important to make sure it works safely, reliably, and provides a smooth experience for users.

- **Application overview**

    SecureBank is a financial web application designed for secure online transactions. It helps developers and security professionals learn how to identify and address security vulnerabilities while ensuring safe financial operations for its users.

- **Purpose**

    The primary purpose of this test is to ensure the quality and reliability of the SecureBank application by thoroughly evaluating its various components and features. The testing process aims to confirm that the application functions correctly, is easy to use, performs efficiently under different conditions, and follows security best practices to protect user data and financial transactions.

Test Items:
List of the specific modules of the SecureBank application that will be tested:
- **Search Functionality:** Search fields and result tables
- **Authentication & User Management:** Login,Register, Logout,Forgot Password
- **Product Management:** Viewing All Categories fields
- **Order Management**: Orders,Payment Method,Add to Cart
- **Global Components**: Header, Footer
- **Contact Us:** Contact form, Social Media links

References:

Documents and standards referred to during the test planning and execution phase:
- IEEE 829 Test Documentation Standard: For test case and documentation structure

Features to be Tested:

This section lists the application features to be validated during testing:
- Core features like Login,Register,Logout and Forgot Password
- Product Management and Order Management functionalities.
- Search functionalities
- Global Components and Contact Us

Test Approach:

The test approach will follow a phased process starting with requirement analysis, test planning, and test case creation. Testing will be conducted in cycles, covering functional, security, performance, and compatibility aspects. Defects will be logged and tracked to closure. Regression testing will be performed after fixes, and no automation will be for this stage. Testing progress will be regularly monitored and reported to stakeholders.

Entry Criteria:

Conditions that must be met before testing can begin:
- Finalized requirements.
- Reviewed and approved test cases.
- Properly set up a test environment.

Exit Criteria:

Conditions to be fulfilled before the testing phase can be closed:
- All critical test cases executed.
- No high-severity defects remaining.
- Test summary report completed.

Suspension Criteria:

Situations when testing may need to be paused:
- Major blocker defects preventing further testing.
- Unavailability of test data or test environment issues.

Roles and Responsibilities:

Outlines the responsibilities of each team member:
- **Test Lead:** Responsible for planning, monitoring, and reporting the testing process.
- **QA Engineers:** Execute test cases and log defects.
- **Developers:** Fix reported defects.

Schedule:

A timeline for each phase of testing:

- Test Planning: Week 1
- Test Case Design: Week 2
- Test Execution: Weeks 3-4
- Defect Fixing & Regression Testing: Week 5

Training:

Training required for effective testing:

- **Domain Training:** Understanding the core functionalities of the SecureBank application,
  including transaction workflows, user management, and security protocols to ensure accurate and efficient testing.
- **Process Training:** Guidelines on manual testing strategies and techniques for transaction
  functionalities.

Test Environment:

Details the hardware and software required for testing:

- **Hardware:** Windows/Linux machines with 8GB RAM, SSD storage.
- **Software:** Chrome, Firefox, Edge

Test Deliverables:

Lists the documents and reports generated during testing:

- Test Plan Document
- Mind Map
- Test Scenarios
- Test Cases and Test Data
- Test Summary Report
- Bug Report

Approvals:

Specifies who has the authority to approve the test plan and test results:

- **QA Lead, PM, Development Team**

Glossary:

Defines key terms used in the document for clarity:

- **QA:** Quality Assurance
- **PM:** Project Manager