**Test Plan – Parabank (Parasoft Demo Bank)**

**1. Project Overview**

Parabank is a demo online banking application developed by Parasoft for practicing software testing. It simulates real-world banking features such as customer login, account management, funds transfer, bill payment, opening new accounts, and viewing transaction history. The goal of testing is to ensure functional accuracy, usability, and security of the system.

**2. Test Objectives**

* Verify that all **core banking operations** (login, transfers, bill pay, transactions) work as expected.
* Ensure **data integrity** across accounts after deposits, withdrawals, and transfers.
* Validate **user authentication and authorization**.
* Check **usability and responsiveness** across browsers/devices.
* Identify and log defects, track them, and verify fixes.

**3. Scope of Testing**

**In-Scope:**

* User login and registration.
* Account overview and balance inquiry.
* Fund transfers between accounts.
* Bill payment functionality.
* Opening a new account.
* Viewing transaction history.
* Logout functionality.

**Out-of-Scope:**

* Integration with real banking systems.
* Performance/load testing under heavy traffic.
* External system dependencies (ATMs, SMS gateways).

**4. Test Approach**

* **Manual Functional Testing** for end-to-end banking workflows.
* **UI & Usability Testing** across browsers and devices.
* **API Testing** for backend services using Postman.
* **Defect Tracking** in Excel.
* **Regression Testing** after bug fixes.

5. Test Environment

* Application Under Test (AUT): <https://parabank.parasoft.com/parabank/index.htm>
* Browsers: Chrome, Firefox, Edge, Safari
* OS Platforms: Windows 11, Android 12.
* Database (backend): HSQLDB (default Parabank demo DB)
* Tools: Excel (Test Cases, Bug Report), Trello (Defect Tracking).

**6. Test Schedule**

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| **Activity** | **Timeline** |
| Test Planning | Day 1 |
| Test Case Design | Day 2–3 |
| Test Execution | Day 4–6 |
| Bug Reporting | Day 4–6 |
| Test Summary & Closure | Day 7 |

**7. Test Deliverables**

* Test Plan Document
* Test Cases (30+)
* Bug Reports (30+)
* Test Execution Logs
* Test Summary Report

**8. Entry and Exit Criteria**

**Entry Criteria:**

* Website is accessible.
* Test environment setup is complete.
* Test data prepared.

**Exit Criteria:**

* All critical test cases executed.
* No open high/critical severity bugs.
* Test summary report prepared and reviewed.

**9. Roles and Responsibilities**

* **Tester:** Execute test cases, report bugs, document results.
* **Test Lead:** Review test cases and bug reports.
* **Developer:** Fix reported bugs.

**10. Risks & Mitigation**

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| **Risk** | **Mitigation** |
| Website downtime | Schedule testing at low traffic hours |
| Environment issues | Verify browser and OS compatibility beforehand |
| Incomplete test coverage | Ensure all core features are included in test cases |

**11. Approval**

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Date: **2-10-2025**  
**Approved by:**