

Week 2 – Test Plan Document

Project Name: Parabank Web Application

Test Plan Version: 1.0

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Date: 21/12/25

1. Objective and Scope

Objective:

To verify that the Parabank application functions correctly, validates user inputs properly, and works consistently across different browsers. To conduct comprehensive manual testing to identify functional, UI, and compatibility issues, ensuring the application meets quality standards before deployment.

Scope:

In-scope: User Registration and Login functionality, Account Management (Balance viewing, Account History), Financial Transactions (Funds Transfer, Bill Payment, Loan Request), ATM Services and Online Banking features, Contact Information Management, Transaction Search and Filtering, Cross-browser compatibility testing

Out-of-scope: Backend APIs, database testing, performance testing, Security penetration testing.

2. Testing Approach

Testing Types

1. **Functional Testing:** Verify all features work according to requirements
2. **Black-Box Testing:** Apply BVA and Equivalence Partitioning techniques
3. **UI Testing:** Check user interface elements, layouts, and usability
4. **Cross-Browser Testing:** Ensure compatibility across Chrome, Firefox, and Edge
5. **Retesting:** Verify fixes for bugs identified in Week 1

Testing Techniques

- **Boundary Value Analysis (BVA):** Test input fields with minimum, maximum, and just beyond boundary values
- **Equivalence Partitioning (EP):** Divide input data into valid and invalid partitions

3. Resources Required

Human Resources

- 1 QA Tester (Manual Testing)
- 1 Test Lead (Review and Documentation)

Tools and Software

- Browsers: Chrome (latest), Edge (latest)
- Bug Tracking: Google Sheets
- Documentation: Google Docs / Microsoft Word
- Test Management: Google Classroom for submissions

Hardware

- Windows machine with internet connectivity
- Minimum 8GB RAM, modern processor

4. Test Environment

Application Under Test

- **URL:** <https://parabank.parasoft.com>
- **Type:** Web Application
- **Technology:** Banking/Financial Demo Application

Configuration

- **Operating System:** Windows 11
- **Browsers:** Chrome (latest), Edge (latest)
- **Screen Resolution:** 1920x1080 (primary), 1366x768 (secondary)
- **Network:** Stable internet connection

5. Entry and Exit Criteria

Entry Criteria

- Test environment is set up and accessible
- Application URL is active and reachable
- Test cases are prepared and reviewed
- Bug tracking system is ready
- All testing tools are installed and configured

Exit Criteria

- All planned test cases are executed
- Critical and high-priority bugs are identified and documented

- Cross-browser testing is completed for all three browsers
- Retesting of Week 1 bugs is completed
- Test summary report is prepared
- 90% of test cases have passed or have documented defects

6. Testing Schedule

Week 2 Timeline

Day	Activity
Day 1	Test Plan creation and Black-Box test case design
Day 2	Execute Black-Box Testing (BVA & EP) on signup and login
Day 3	Execute functional testing on Funds Transfer and Bill Pay
Day 4	Cross-Browser Testing (Chrome, Firefox, Edge)
Day 5	Retesting of Week 1 bugs
Day 6	Documentation and report preparation
Day 7	Final review and submission

7. Test Deliverables

1. Test Plan Document (this document)
2. Black-Box Test Cases (BVA & EP)
3. Cross-Browser Testing Report
4. Retesting Report with updated bug statuses
5. Test Summary Report

8. Risk Assessment

Potential Risks

1. **Application Instability:** Frequent logouts may interrupt testing
 - *Mitigation:* Document issues immediately, create new accounts as needed
2. **Browser Compatibility Issues:** Different rendering across browsers
 - *Mitigation:* Test systematically on each browser, document differences
3. **Time Constraints:** Complex testing within one week
 - *Mitigation:* Prioritize critical features, focus on high-severity bugs

9. Assumptions

- The application will remain accessible throughout the testing period
- No major updates will be deployed during testing
- Tester has basic understanding of banking operations
- Test data can be created freely without restrictions

10. Sign-off

Role	Name	Signature	Date
QA Tester	Areeba Khalid	Areeba..	21/12/25
Test Lead	Areeba Khalid	Areeba..	21/12/25