**Test Plan Document for Automation Testing DemoQA**

* **Document ID**: TP-DEMO-001
* **Version**: 1.0
* **Prepared by**: Nguyen Thi Tam Nhi, Intern Tester
* **Date**: 01/07/2025

# **1. Introduction**

This Test Plan outlines the approach for automating the testing of the DemoQA website (<https://demoqa.com/>), a platform designed for testing practice. The objective is to validate core functionalities, including login, form submission, UI alignment, and API itself, while documenting results to build a professional portfolio for an Intern Tester role.

# **2. Objectives**

* Verify that all automated functionalities perform as expected per requirements.
* Identify and report defects using Jira.
* Ensure the application is user-friendly and responsive through automation.
* Document test cases, scripts, and results for transparency and portfolio use.

# **3. Scope**

* **In-Scope**:
  + Functional testing of:
    - Login (e.g., TC\_Login\_002: Failed login with incorrect username).
    - Form submission (e.g., TC\_Form\_002: Submit with empty fields).
    - UI alignment (e.g., TC\_UI\_003: Button alignment on small screen).
    - API endpoints (e.g., BookStore API, response time).
  + Automation testing using Selenium IDE and Postman.
  + Defect reporting via Jira.
  + Testing on Microsoft Edge browser.
* **Out-of-Scope**:
  + Performance testing.
  + Security testing.
  + Manual testing (outside automation scope).

# **4. Test Environment**

* **Website**: <https://demoqa.com/>
* **Browser**: Microsoft Edge (latest version)
* **Device**: Desktop (Windows)
* **Credentials**: Demo accounts (e.g., test/Test@123)
* **Tools**:
  + Selenium IDE: UI test automation.
  + Postman: API testing.
  + Jira: Test case management and bug reporting.
  + Excel: Test case documentation.

# **5. Test Data Management**

* Use demo accounts provided by DemoQA (e.g., username: test, password: Test@123).
* API test data: JSON payloads as specified in test cases (e.g., { "userName": "testuser", "password": "wrongpass" }).
* UI test data: Predefined inputs like names, emails, and invalid formats.

# **6. Test Strategy**

* **Automation Testing**: Execute test cases using recorded Selenium IDE scripts and Postman collections.
* **Exploratory Testing**: Identify additional issues not covered by predefined cases.
* **Test Case Design**:
  + Include positive and negative scenarios.
  + Prioritize high-priority cases (e.g., TC\_Login\_002, TC\_Form\_002).
* **Defect Reporting**: Log defects in Jira with detailed descriptions, screenshots, and severity levels.
* **Exit Criteria**: 100% of high-priority test cases executed, with all critical defects reported.

# **7. Resources**

* **Tester**: Nguyen Thi Tam Nhi, Intern Tester
* **Tools**: Selenium IDE, Postman, Jira, Excel
* **Documentation**: Test\_Plan.docx, Test\_Cases.xlsx, Test\_Report.docx, Screenshots

# **8. Deliverables**

* Test Plan (this document)
* Test Cases (Test\_Cases.xlsx)
* Test Report (Test\_Report.docx)
* Selenium IDE scripts (.side files)
* Postman collection (.json file)
* Screenshots of test execution and defects
* Jira bug reports (PDF exports in bug\_reports/)

# **9. Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Duration** | **Start Date** | **End Date** |
| Write Test Plan | 0.5 hours | 01/07/2025 | 01/07/2025 |
| Design Test Cases | 1 hour | 01/07/2025 | 01/07/2025 |
| Execute Test Cases | 1 hour | 02/07/2025 | 02/07/2025 |
| Log Defects in Jira | 0.5 hours | 02/07/2025 | 02/07/2025 |
| Write Test Report | 0.5 hours | 02/07/2025 | 02/07/2025 |
| Finalize Documentation | 0.5 hours | 02/07/2025 | 02/07/2025 |

# **10. Risks and Mitigation**

* **Risk**: Limited access to Jira.
  + **Mitigation**: Use a free Jira version or simulate tickets with screenshots.
* **Risk**: Browser compatibility issues.
  + **Mitigation**: Test exclusively on Microsoft Edge.
* **Risk**: Incomplete test coverage.
  + **Mitigation**: Prioritize critical test cases and perform exploratory testing.

# **11. Approval**

* **Prepared by**: Nguyen Thi Tam Nhi, Intern Tester
* **Date**: 01/07/2025