**TEST PLAN FOR app.vwo.com**

1. Objectives
2. Scope
3. Test Resources
4. Test Approach
5. Test Environment
6. Defect Life Cycle
7. Test Deliverables
8. Entry and Exit Criteria
9. Test Execution
10. Test Closure
11. Risks and Mitigations
12. Conclusions
13. **Objectives**

The main objective is to ensure that the login and dashboard functionalities work correctly and efficiently. This includes validating user authentication, session management, user roles, dashboard loading and system performance.

1. **Scope**

In-Scope:

* Login Functionality: User authentication, form validation (valid/invalid credentials), password reset functionality, multi-factor authentication (if applicable), error messages for incorrect inputs.
* **Dashboard Functionality**: Data loading , displaying correct page
* **Cross-Browser Testing:** Ensuring that the Login and Dashboard work across multiple browsers like Chrome, Firefox, Safari, and Edge.
* **Performance:** Testing the page load times and responsiveness of both the Login page and Dashboard, including performance under high traffic.

Out-of scope:

* Features outside of Login and Dashboard
* Functionalities unrelated to user authentication and dashboard presentation.

1. **Test Resources:**

* **Test Manager**: Responsible for planning and overseeing the testing process.
* **Test Lead**: Coordinates the test execution and reporting.
* **QA Testers**: Execute functional, regression, security, and performance tests for Login and Dashboard functionalities.
* **Developers**: Assist in defect resolution and provide support for technical aspects.
* **Security Analyst**: Ensure security testing is covered (e.g., data encryption, authentication vulnerabilities).

1. **Test Approach:**

* **Functional Testing**: Validate the correctness of all the features working correctly.
* **Regression Testing**: Ensure that changes or fixes do not break any of the existing functionalities.
* **Security Testing**: Test login security, ensuring password encryption, and handling of invalid login attempts.
* **Performance Testing**: Evaluate the speed of the Login page and Dashboard under different load conditions (e.g., page load times, response time for dashboard data).
* **Cross-Browser and Device Testing**: Ensure the Login page and Dashboard works correctly on different browsers and devices.
* **System Testing**: Validates the overall Login and Dashboard functionality in the live environment.
* **User Acceptance Testing (UAT)**: Ensures the features meet the business and user requirements.

1. **Test Environment:**

* **Browsers**: Chrome, Firefox, Safari, Edge, Internet Explorer (for compatibility testing).
* **Operating Systems**: Windows, macOS, Linux (for cross-platform compatibility).
* **Test Tools**: Selenium for automated testing, JMeter for performance testing, Jira or TestRail for test case management.

1. **Defect Life Cycle:**

* **Defect Identification**: Defects are reported by QA testers when functionality is found to be incorrect.
* **Defect Logging**: Defects are logged into a defect tracking system (e.g., Jira, Bugzilla) with clear descriptions, steps to reproduce, screenshots, and severity/priority levels.
* **Defect Triage**: The defect is assessed by the development team for severity and urgency. High-severity defects will be prioritized.
* **Defect Resolution**: Developers resolve the defects, after which the testers will validate the fixes.
* **Defect Retesting**: The tester retests the defect to ensure that the fix is effective and does not affect other parts of the system.
* **Defect Closure**: Once defects are resolved and verified, they are marked as closed.

1. **Test Deliverables:**

* **Test Plan**: Detailed document including the objectives, scope, resources, and strategy.
* **Test Cases**: Detailed test cases for Login and Dashboard functionality.
* **Test Execution Report**: A summary of the tests executed, including results (pass/fail), defects found, and coverage.
* **Defect Report**: A report listing all defects found during testing, their severity, status, and resolution.
* **Test Summary Report**: A final report summarizing the overall testing effort, including the number of tests passed/failed, open defects, and test coverage.

1. **Entry and Exit Criteria:**

**Entry Criteria:**

* Test environments are set up and configured.
* Test data is available (e.g., user credentials)
* Test Cases are reviewed and approved.
* Development of Login and Dashboard features is complete.

**Exit Criteria:**

* All test cases have been executed.
* All critical defects are resolved or deferred with valid reasons.
* The product meets the functional and non-functional requirements as specified.
* Test results have been reviewed and signed off by the stakeholders.

1. **Test Execution:**

* **Test Execution Plan**: Testers will execute predefined test cases for the Login and Dashboard functionalities in the specified order.
* **Test Case Execution**: Each test case will be executed, and results will be logged as "Pass," "Fail," or "Blocked."
* **Defect Logging**: Any issues found during test execution will be logged in the defect management tool and tracked until resolution.
* **Progress Reporting**: Regular updates will be shared with stakeholders, including the status of test execution, any blockers, and defects

1. **Test Closure:**

* **Final Test Report**: A comprehensive summary of the test execution results, defect status, test coverage, and overall system quality.
* **Lessons Learned**: A retrospective meeting to capture what went well, what could be improved, and suggestions for future testing efforts.
* **Sign-Off**: Formal sign-off from stakeholders indicating that testing has been completed, and the product is ready for release or further stages of the development lifecycle.

1. **Risks and Mitigations:**

* **Risk:** Browser/Device Compatibility Issues

**Mitigation:** Early cross-browser testing

* **Risk:** Security Vulnerabilities

**Mitigation:** Perform thorough security testing using automated tools and manual penetration testing.

* **Risk:** **Incomplete Test Data**

**Mitigation:** Coordinate with the product team early to prepare and validate test data.

1. **Conclusion:**

This Test plan ensures that the Login and Dashboard functionalities of app.vwo.com have been thoroughly tested to ensure they meet the expected requirements and user needs. Functional, security, and performance tests have been successfully executed. The system is compatible across supported browsers and devices. Testing will be conducted iteratively to support ongoing application enhancements.