### \*\*Test Plan for VWO Login Page\*\*

\*\*1. Introduction\*\*

The purpose of this test plan is to outline the objectives, scope, approach, and resources required to test the login functionality of the VWO website. The goal is to ensure the login page is secure, functional, user-friendly, and performs well under various conditions.

#### \*\*2. Objectives\*\*

- To verify that the login page functions correctly with valid and invalid inputs.

- To ensure that the login page is secure against common vulnerabilities.

- To assess the usability and accessibility of the login page across different devices and browsers.

- To evaluate the performance of the login page under different load conditions.

#### \*\*3. Scope\*\*

\*\*In Scope:\*\*

- Functional testing of the login page.

- Security testing to identify potential vulnerabilities.

- Usability testing to ensure user-friendliness.

- Performance testing under various conditions.

- Compatibility testing across different browsers and devices.

\*\*Out of Scope:\*\*

- Testing of non-login-related features of the VWO website.

- Backend or database testing beyond what is related to login functionality.

#### \*\*4. Test Items\*\*

- Login form (username and password fields)

- "Login" button

- "Forgot Password" link

- "Sign Up" link (if available)

- "Remember Me" checkbox

- Password masking and "Show Password" functionality

- Error messages and validation messages

#### \*\*5. Test Approach\*\*

\*\*Functional Testing:\*\*

- Test the login functionality with various valid and invalid credentials.

- Test the visibility and functionality of the "Forgot Password" and "Sign Up" links.

- Verify that users are correctly redirected after login or logout.

\*\*Security Testing:\*\*

- Test for vulnerabilities like SQL injection, XSS, and brute force attacks.

- Verify the use of HTTPS for secure transmission.

- Ensure that error messages do not reveal sensitive information.

\*\*Usability Testing:\*\*

- Evaluate the responsiveness of the login page across different devices.

- Test the accessibility features, such as keyboard navigation and screen reader support.

- Ensure the layout and design are consistent and user-friendly.

\*\*Performance Testing:\*\*

- Measure the response time of the login page under normal and peak load conditions.

- Test the login functionality with a large number of concurrent users.

- Verify performance across different network speeds.

\*\*Compatibility Testing:\*\*

- Test the login page on different browsers (Chrome, Firefox, Safari, Edge).

- Test the login page on various devices (desktop, mobile, tablet).

- Verify compatibility with different operating systems.

#### \*\*6. Test Environment\*\*

\*\*Hardware:\*\*

- Desktops, laptops, tablets, and mobile devices with various specifications.

\*\*Software:\*\*

- Latest versions of Chrome, Firefox, Safari, Edge.

- Operating systems: Windows, macOS, Linux, iOS, Android.

\*\*Test Data:\*\*

- Valid and invalid user credentials.

- Test accounts with different access levels.

#### \*\*7. Entry and Exit Criteria\*\*

\*\*Entry Criteria:\*\*

- The login page is fully developed and stable.

- All necessary test data is available.

- Test environment is set up and ready.

\*\*Exit Criteria:\*\*

- All planned test cases have been executed.

- All critical defects have been resolved or documented.

- Test reports have been reviewed and approved.

#### \*\*8. Test Deliverables\*\*

- Test cases

- Test scripts (if applicable)

- Test data

- Test execution results

- Defect reports

- Test summary report

#### \*\*9. Risks and Assumptions\*\*

\*\*Risks:\*\*

- Delays in the availability of the test environment.

- Unavailability of required test data.

- High number of critical defects that may delay the release.

\*\*Assumptions:\*\*

- The development team will address and fix defects in a timely manner.

- The test environment will mirror the production environment as closely as possible.

- Necessary access to tools and resources will be provided.

#### \*\*10. Schedule\*\*

- \*\*Test Planning:\*\* [Start Date] - [End Date]

- \*\*Test Case Development:\*\* [Start Date] - [End Date]

- \*\*Test Execution:\*\* [Start Date] - [End Date]

- \*\*Defect Reporting and Retesting:\*\* Ongoing during execution phase

- \*\*Test Closure:\*\* [End Date]

#### \*\*11. Resources\*\*

\*\*Team Members:\*\*

- Test Lead: [Name]

- Test Engineers: [Names]

- Security Analyst: [Name]

- Performance Tester: [Name]

\*\*Tools:\*\*

- Browser Developer Tools

- Security Testing Tools (e.g., OWASP ZAP, Burp Suite)

- Performance Testing Tools (e.g., JMeter)

- Test Management Tool (e.g., JIRA, TestRail)

#### \*\*12. Approvals\*\*

- [Test Lead Name]: [Signature] [Date]

- [Project Manager Name]: [Signature] [Date]

- [QA Manager Name]: [Signature] [Date]

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This test plan outlines the strategy to ensure the VWO login page is tested thoroughly. Each section provides a clear guide for the testing process, from preparation to execution and closure.