

Test Plan for VWO.com

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Objective

This test plan outlines the approach for testing **VWO.com**, a web-based experimentation platform that enables A/B testing, multivariate testing, and personalization for websites and applications. The objectives include:

- Validating the functionality of **A/B testing** and **experiment execution**.
- Ensuring the accuracy of **metrics tracking and data aggregation**.
- Identifying performance bottlenecks and UI/UX issues.
- Maintaining system reliability and preventing failures through **guardrail metric monitoring**.

Technology Stack

- **Frontend:** React 18.2.0, JavaScript, jQuery 2.1.1
- **Backend:** PostgreSQL
- **Web Server:** Apache (suggested), Nginx

Scope

The testing will cover:

Functional Testing:

- **User authentication:** Login, Sign-up, Forgot Password
- **Dashboard features:** User dashboard, experiment setup, reports
- **Experiment execution:** A/B tests, multivariate tests, split URL testing
- **Goal tracking & analytics:** Heatmaps, session recordings, funnel analysis

Non-Functional Testing:

- **Performance testing:** Load, stress, and response time testing
- **Accessibility testing:** Compliance with WCAG guidelines
- **UI/UX testing:** Ensuring usability and visual consistency

Compatibility Testing:

- **Cross-browser testing:** Chrome, Firefox, Edge, Safari
- **Cross-device testing:** Desktop, mobile (Android/iOS), tablets

Exclusions:

- Third-party **support page**
- **Zoho Chat Widget** integration

Test Environments

Environment	URL
QA	
Pre-Prod	
UAT	
Production:	
app.vwo.com	

Supported Devices & Browsers

- **Windows 10/11** – Chrome, Firefox, Edge
- **macOS** – Safari
- **Android** – Chrome
- **iPhone iOS** – Safari

Defect Reporting Procedure

- **Identification:** Deviation from expected functionality, UI bugs, or performance issues.
- **Reporting:** Issues logged in a defect tracking tool with steps to reproduce, screenshots, and logs.
- **Triaging:** Assigning priority (Critical, High, Medium, Low) and severity levels.
- **Tracking & Resolution:** Bugs monitored until fixed and retested.
- **Communication:** Regular status updates shared with stakeholders.

Test Strategy

Test Design Techniques:

- Equivalence Partitioning
- Boundary Value Analysis
- Decision Table Testing
- State Transition Testing
- Error Guessing
- Exploratory Testing

Testing Types:

- **Smoke & Sanity Testing** – Ensuring basic stability before detailed testing.
- **Functional & UI Testing** – Verifying core features and interface elements.
- **Regression Testing** – Retesting after defect fixes.
- **Usability Testing** – Evaluating ease of use and experience.
- **End-to-End Testing** – Covering full user workflows.

Execution Approach:

1. **Smoke Testing** – Ensuring critical functionalities are working.
2. **Functional Testing** – Validating feature implementation using test cases.
3. **Defect Logging** – Reporting and tracking issues.
4. **Regression Testing** – Ensuring fixes don't introduce new issues.

5. **Final Testing & Sign-off** – Validating release readiness.

Test Schedule

Task	Duration
Test Plan Creation	
Test Case Creation	
Test Execution	
Report Submission	

Test Deliverables

- Test Plan Document
- Test Cases & Test Data
- Test Execution Reports
- Defect Reports
- Final Test Summary

Entry & Exit Criteria

Requirement Analysis

- **Entry Criteria:** Requirement documents received.
- **Exit Criteria:** Requirements understood & clarified.

Test Execution

- **Entry Criteria:** Signed-off test cases, stable build received.
- **Exit Criteria:** All test cases executed, defects logged & fixed, reports prepared.

Test Closure

- **Entry Criteria:** Completion of all test cycles.
- **Exit Criteria:** Test Summary Report approved.

Tools Used

- **Defect Tracking Tool** – JIRA or equivalent
- **API Testing** – Postman
- **Automation Testing** – Selenium, RestAssured
- **Performance Testing** – JMeter or equivalent
- **Documentation** – Word, Excel

Risks & Mitigation

Risk	Mitigation
Resource unavailability	Backup resource planning
Build issues	Work on other pending tasks
Time constraints	Increase testing resources if needed

Approvals

Testing will proceed only after approval of:

- Test Plan
- Test Scenarios
- Test Cases
- Reports