Test Plan for app.vwo.com
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1. Objective

This document outlines the test plan for app.vwo.com, a platform that enables A/B Testing for external websites. The objective is to ensure that all core and advanced features work seamlessly across devices, browsers, and user roles.

2. Scope

Features to be tested:

- Login Page

- Dashboard Page

- Create Account Page

- A/B Testing Campaign Creation & Execution

Types of testing:

- Manual Testing

- Automation Testing

- Performance Testing

- Security Testing

- Accessibility Testing

Environments:

- Browsers: Chrome, Firefox, Edge

- OS: Windows 10/11, macOS, Ubuntu

- Devices: Desktop, Laptop, Mobile

Evaluation criteria:

- Defects identified and resolved

- Performance benchmarks met

- Accessibility compliance

- Stakeholder satisfaction

Team roles:

- Test Lead

- Test Engineers

- Automation Engineers

- Developers

- Product Owner

3. Inclusions

- Full functional and regression testing

- UI/UX validation against approved designs

- Automation testing for core workflows

- Exploratory and negative testing

4. Exclusions

- 3rd party integration systems

- Backend infrastructure-level testing

- Mobile app testing (outside of mobile browser views)

5. Assumptions and Dependencies

- Test environments are stable and configured

- Requirements are frozen before test execution

- Dev team delivers build with unit test completion

6. Test Environments

- **OS:** Windows 10/11, macOS Ventura, Ubuntu 22.04

- **Browsers:** Chrome (latest), Firefox, Edge

- **Devices:** Desktops, Laptops, iPads, Mobile Phones

- **Network:** 4G, 5G, Wi-Fi

- **Security Protocols:** SSL, 2FA, token-based auth

- **Permissions:** Admin, Read-only, Editor roles

7. Test Data Management

- Use anonymized production-like data

- Generate synthetic data for campaign tests

- Ensure repeatable and clean test environments

8. Traceability Matrix Strategy

A traceability matrix will be maintained for all requirements linking:
Requirement ID ↔ Test Scenario ↔ Test Case ↔ Bug ID

9. Defect Reporting Procedure

- **Criteria:** Deviation from expected behaviour, UI/UX inconsistency, performance issues

- **Tools:** JIRA

- **Triage:** Based on severity/priority matrix

- **SLA:**

Severity	Response Time	Resolution Time
Critical	2 hours	24 hours
Major	8 hours	3 days
Minor	24 hours	5 days

- **Aging Policy:** Escalate defects > 7 days unresolved

10. Test Strategy

Test Design Techniques:

- Equivalence Partitioning

- Boundary Value Analysis

- Use Case & State Transition Testing

- Exploratory & Error Guessing

Testing Procedure:

- Smoke Testing on each build

- Functional and Regression Testing

- End-to-End Flow Testing (e.g., campaign creation to result tracking)

- Accessibility Testing (WCAG 2.1 AA)

- Security Testing: Auth, roles, session management

Automation Testing:

- Tools: Cypress for UI, Postman for APIs

- Scope: Login, Campaign Workflow, Dashboard Stats

- CI/CD Integration: GitHub Actions

Performance Testing:

- Tool: JMeter or k6

- Metrics: Response time, concurrent users, error rates

Accessibility Testing:

- Tools: axe, Lighthouse, NVDA

- Scope: Screen-reader usability, colour contrast, keyboard nav

11. Test Schedule

Task	Duration	Owner	Dates
Test Plan Finalization	2 Days	Test Lead	May 3–4, 2025
Test Case Development	5 Days	QA Team	May 5–9, 2025
Test Execution	7 Days	QA Team	May 10–17, 2025
Bug Fix & Retesting	3 Days	QA + Dev	May 18–20, 2025
Summary Report & Closure	2 Days	Test Lead	May 21–22, 2025

12. Test Deliverables

- Final Test Plan
- Test Case Document
- Traceability Matrix
- Daily Execution Report
- Defect Log (JIRA)
- Final Test Summary Report

13. Entry & Exit Criteria

Phase	Entry Criteria	Exit Criteria
Requirement Analysis	BRD/SRS received, clarified	Test scenarios defined
Test Execution	Approved test cases, stable build	All major test cases executed
Test Closure	Test reports ready, major defects closed	Final summary shared; approvals received

14. Communication Plan

- Daily sync meetings (Slack)
- Weekly progress report with KPIs

- Final sign-off with stakeholders (QA, Dev, Product)

15. Tools

- Test Management: Google Sheets / TestRail

- Defect Tracking: JIRA

- Automation: Cypress, Postman

- Performance: JMeter, k6

- Mind Mapping: XMind

- Documentation: MS Word, Excel, Confluence

- Screen Capture: LightShot, Snagit

16. Risks and Mitigation

Risk	Mitigation Strategy
Resource Unavailability	Backup allocation & cross-training
Build Unavailability	Early coordination with DevOps
Last-minute Requirement Change	Daily alignment with Product Team
Browser Compatibility Issues	Use of BrowserStack & early parallel test

17. Approvals

Phase	Owner	Approval Required By
Test Plan	Test Plan	QA Manager
Test Execution	QA Team	Product Owner
Test Closure	Test Lead	QA + Product Heads