Test Plan for app.vwo.com  
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1. Objective  
   This Test Plan ensures that the Login Page, Dashboard Page, Create Account Page, and AB Testing Campaign modules of app.vwo.com function reliably, are user-friendly, and meet all business and technical requirements. Success will be measured by defect rates, test coverage, performance benchmarks, and stakeholder acceptance.
2. Scope  
   — In-Scope:

* Login Page, Dashboard Page
* Create Account Page
* A/B Testing Campaign creation, monitoring, and reporting
* Integrations (Google Analytics, Tag Manager)
* Accessibility, Security, and Performance Testing

— Out-of-Scope:

* Backend infrastructure validation
* Third-party platform outages outside VWO control

1. Inclusions

* Manual Testing
* Automation Testing
* Performance Testing
* Accessibility Compliance Testing (WCAG 2.1)
* Security Validation

1. Exclusions

* Backend load balancers, hosting environments
* Third-party service disruptions (e.g., analytics downtime)

1. Test Environments  
   — Operating Systems: Windows 10/11, macOS Ventura/Sonoma, Ubuntu 22.04  
   — Browsers: Chrome (latest and N-1), Firefox (latest and N-1), Safari (latest two versions), Edge  
   — Devices: Desktop, Laptop, Tablet (iPad), Smartphone (Android, iOS)  
   — Test Data: Dummy user accounts, sample websites for experiments  
   — Security Protocols: OAuth2 Tokens, SSO validation  
   — Access Control: Defined QA, Dev, and Stakeholder roles
2. Defect Reporting Procedure

* Severity-Priority Matrix established
* Defects logged via JIRA
* Triage meetings daily
* SLA:
  + Sev1: Response <1hr, Resolution <8hr
  + Sev2: Response <4hr, Resolution <24hr

1. Test Strategy  
   Step 1: Test Design

* Techniques: Boundary Value Analysis, Equivalence Partitioning, State Transition, Decision Table, Use Case Testing
* Tools: Mindmaps for exploratory sessions

Step 2: Test Execution

* Smoke Testing → Functional Testing → Regression → End-to-End Flow Testing
* Parallel Cross-Browser & Device Testing
* Defect logging and triaging

Step 3: Best Practices

* Context-Driven Testing
* Shift Left Approach
* End-to-End Flow Automation using Playwright (for major user journeys)

Step 4: Non-Functional Testing

* Performance Testing with JMeter (1000 concurrent users)
* Accessibility Testing with Axe and Lighthouse
* Security Testing for input validation, session management, XSS

1. Test Schedule  
   | Activity | Start Date | End Date | Owner |  
   |----------|------------|----------|-------|  
   | Test Plan Creation | May 3, 2025 | May 5, 2025 | Test Lead |  
   | Test Scenario & Case Design | May 6, 2025 | May 12, 2025 | QA Team |  
   | Test Data Preparation | May 8, 2025 | May 12, 2025 | QA Team |  
   | Test Execution (Cycle 1) | May 13, 2025 | May 20, 2025 | QA Team |  
   | Defect Retesting | May 21, 2025 | May 23, 2025 | QA Team |  
   | Test Closure & Reporting | May 24, 2025 | May 26, 2025 | Test Lead |
2. Test Deliverables

* Test Plan
* Test Scenarios & Test Cases
* Traceability Matrix
* Defect Reports
* Daily and Weekly Status Reports
* Test Summary Report
* Lessons Learned Report

1. Entry and Exit Criteria  
   — Entry:

* Requirement documents finalized and signed off
* Stable build deployed to QA
* Test environment setup complete

— Exit:

* All critical defects closed
* Test case execution 95% complete
* Test Summary Report reviewed and approved

1. Tools

* Test Management: TestRail
* Bug Tracking: JIRA
* Automation Framework: Playwright + TypeScript
* Performance Testing: Apache JMeter
* Accessibility Testing: Axe DevTools, Lighthouse
* Documentation: Word, Excel, Confluence
* Communication: Slack, Zoom

1. Risks and Mitigations  
   | Risk | Impact | Mitigation |  
   |------|--------|------------|  
   | Environment Instability | High | Backup Environments Prepared |  
   | Unavailability of Resources | Medium | Cross-training of QA Team |  
   | Delays in Development Builds | High | Escalation Mechanism to Project Manager |  
   | Third-party Integration Failures | Medium | Use mocks/simulators in early stages |
2. Approvals  
   | Name | Role | Approval Date | Signature |  
   |------|------|---------------|-----------|  
   | Sharik Sayyad | Test Lead | May 5, 2025 | — |  
   | Client Stakeholder | Product Owner | May 6, 2025 | — |
3. Test Data Management

* Pre-configured dummy websites
* Automated data generation scripts for mass user creation
* Role-based data segregation (Admin, Editor, Viewer)

1. Traceability Matrix

* Each requirement mapped to one or more test cases and corresponding defects.

1. Compliance and Standards

* WCAG 2.1 AA for accessibility
* OWASP Top 10 for security
* ISO/IEC 25010 Quality Model alignment for product quality attribute