Test Strategy Document Project: apo.vwo.com (A/B Testing Platform) Prepared by: Senior QA Manager (20+ Yrs Experience) Reviewed by: QA Lead (20+ Yrs Experience) Date: 3rd May 2025 1. Objective Ensure the end-to-end functionality, usability, performance, security, and data accuracy of apo.vwo.com, an A/B testing platform, aligning with business and technical requirements. 2. Scope In Scope: - Customer Workflows: - User Registration (Sign-up) - User Login & Logout - Dashboard navigation - A/B Test creation, modification & deletion - Reporting and analytics viewing - Account Management: - Profile updates - Password reset - Integrations: - API Endpoints (A/B test management, user management, analytics) - Webhooks & third-party analytics integrations (e.g., Google Analytics) - Platform Coverage:

- Web application (Desktop + Mobile browsers)

Out of Scope:

- Mobile native apps (Android, iOS)
- Internal admin dashboards (for now)
- Third-party billing and payment workflows (handled externally)
- 3. Focus Areas
- Functional Correctness
- Data Accuracy
- UI / Navigation
- Performance
- Security
- Compatibility
- Usability
- API Reliability
- Database Integrity
- Server Log Validation
- 4. Test Approach
- Functional Testing: Manual, Selenium
- API Testing: Postman / Rest Assured (Java)
- Database Testing: SQL queries using DBeaver
- Log Validation: Kibana / Splunk
- Performance Testing: JMeter
- Security Testing: OWASP ZAP / Burp Suite
- Cross-browser Testing: BrowserStack
- Accessibility Testing: Axe, Lighthouse
- Exploratory Testing: Session-based test charters

5. Deliverables - Functional Test Reports - API Test Report - Performance Test Results - Security Assessment Report - Cross-browser Compatibility Report - Usability Evaluation Report - UAT Sign-off Report - Test Coverage & Defect Reports - Automated Test Suite & Execution Logs 6. Team & Schedule Team Composition: - 4 QA Engineers (2 Manual, 2 Automation) - 1 Performance Tester - 1 Security Tester (part-time) - 1 Contingency Backup QA (floating) Schedule: May: Functional, API, Database & Security Testing June: Performance Testing, Cross-browser Testing

July: Usability Evaluation, UAT

UAT Participants:

August: Final Regression Testing & Release Sign-off

- Regression Testing: Selenium + TestNG

- 5 Business Stakeholders- 5 Beta Users
- 7. Entry & Exit Criteria

Entry:

- All user stories signed-off by Product
- Test environment stable & accessible
- APIs deployed and documented

Exit:

- All functional & non-functional tests executed
- No Critical/High open defects
- Load test SLAs met (Avg Response < 2 sec @ 1000 users)
- No OWASP Top 10 Critical/High vulnerabilities
- UAT sign-off obtained
- 95%+ Test Coverage achieved
- 8. Metrics to Track
- Requirement Coverage %
- Test Case Execution %
- Defect Density & Leakage Rate
- API Test Coverage %
- Automation Suite Pass Rate %
- Performance Metrics (TPS, Response time)
- Security Issues count (by severity)
- Usability Issues count

9. Risks & Mitigation

- Frequent UI changes: Early collaboration + Exploratory Testing
- API schema instability: Contract Testing + Dev sync
- Limited UAT participants: Pre-identify backups

10. Tools Stack

- Test Management: Jira + Zephyr

- Automation: Selenium + TestNG

- API Testing: Postman / Rest Assured

- Database: DBeaver

- Log Monitoring: Kibana / Splunk

- Performance: JMeter

- Security: OWASP ZAP / Burp Suite

- Cross-browser: BrowserStack

- Accessibility: Axe, Lighthouse

- CI/CD: Jenkins

Approval:

Role: QA Manager | Name: Pramod Dutta | Signature: (signed) | Date: 03-May-2025

Role: QA Lead | Name: Senior QA Lead | Signature: (signed) | Date: 03-May-2025

Role: Product Owner | Name: [Pending] | Signature: | Date: