VWO Login Module — Functional Test Plan

# 1. Purpose

To validate that the login module of app.vwo.com works reliably across browsers and user types, covering:  
- Functional correctness  
- UI behavior  
- Role-based access  
- Basic security and session handling

# 2. Test Scope

* In Scope:
* Email/password login
* SSO login
* UI validations (placeholders, error messages, responsiveness)
* Session timeout and management
* User roles and access flow
* Out of Scope:
* Backend infra-level tests (DevOps owned)
* Third-party system failures beyond integration points

# 3. Test Environment

|  |  |
| --- | --- |
| Component | Detail |
| Test URL | https://staging.vwo.com/login |
| Devices | Desktop, Android, iOS |
| OS | Windows 11, macOS Ventura, Android 13, iOS 16 |
| Tools Used | BrowserStack, Postman, JMeter, OWASP ZAP |
| Credentials | Valid/invalid test users (kept secure) |

# 4. Entry & Exit Criteria

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| --- | --- |
| Phase | Conditions |
| Entry | Finalized requirements, stable build, test data ready |
| Exit | 95% test cases passed, no open Sev1/Sev2 bugs, stakeholder approval |

# 5. Test Focus Areas

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| --- | --- |
| Category | Key Checks |
| Functionality | Valid login, invalid creds, error handling |
| UI | Field placeholders, tab order, focus behavior |
| Security | No user enumeration, secure API response, session expiry |
| Compatibility | Test on Chrome, Firefox, Safari, Edge |
| Integration | SSO working, redirects, auth tokens |

# 6. Team & Tools

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| --- | --- |
| Role | Tool / Person |
| Test Mgmt | TestRail |
| Automation | Selenium, REST Assured |
| Perf Testing | JMeter |
| Security | OWASP ZAP |
| Defects | JIRA |
| Comms | Slack, Zoom |
| Reporting | Allure, Confluence |

# 7. Sample Test Cases

|  |  |
| --- | --- |
| ID | Test Case Description |
| TC01 | Login with valid email & password |
| TC02 | Incorrect password shows error |
| TC03 | Blank email or password field |
| TC04 | Password masking & visibility toggle |
| TC05 | SSO login flow and fallback |
| TC06 | Session timeout after inactivity |
| TC07 | Error response on slow/invalid API |
| TC08 | Rate limiting after 5 failed attempts |

# 8. Risk & Mitigation

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| --- | --- | --- |
| Risk | Severity | Mitigation Strategy |
| Browser-specific bugs | High | Cross-browser via BrowserStack |
| API timeout under load | Medium | Optimize backend & CDN caching |
| Security gaps (auth leak) | Critical | Run OWASP ZAP + manual test |