**Software Requirements Specification (SRS) Document**

**Project**: VWO Application – Authentication Module  
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**Prepared on**: 01-08-2023

**1. Introduction**

**1.1 Purpose**

This document outlines the functional and non-functional requirements for the **Authentication Module** of the VWO application, which includes the following components:

* Login Page
* Forgot Password Page
* Start a Free Trial Page
* Sign in Using SSO Page

**1.2 Scope**

The Authentication Module enables users to access the VWO platform securely. It supports email-password login, password recovery, SSO authentication, and user onboarding via a free trial. This document is intended for developers, testers, designers, and stakeholders.

**1.3 Definitions**

| **Term** | **Description** |
| --- | --- |
| SSO | Single Sign-On |
| CAPTCHA | Security challenge to prevent bots |
| VWO | Visual Website Optimizer |

**2. Functional Requirements**

**2.1 Login Page**

* FR-1.1: Users must be able to log in using valid email and password.
* FR-1.2: CAPTCHA must be integrated for bot protection.
* FR-1.3: “Forgot Password” and “Start Free Trial” links must be accessible.
* FR-1.4: “Sign in using SSO” link must redirect to SSO page.
* FR-1.5: The system must validate credentials via backend API.
* FR-1.6: Appropriate error messages must appear for incorrect login attempts.

**2.2 Forgot Password Page**

* FR-2.1: Users can request a password reset by entering their registered email.
* FR-2.2: An email must be sent with reset instructions.
* FR-2.3: Success and error messages must be shown accordingly.

**2.3 Start a Free Trial Page**

* FR-3.1: Allows new users to sign up by entering full name, business email, password, and phone number.
* FR-3.2: All fields must be validated with proper formats.
* FR-3.3: CAPTCHA integration to prevent automated signups.
* FR-3.4: Upon successful submission, redirect to email verification or dashboard.

**2.4 Sign in Using SSO Page**

* FR-4.1: Users can log in via enterprise SSO by entering company domain.
* FR-4.2: Redirects to corresponding identity provider (e.g., Google Workspace, Okta).
* FR-4.3: Error handling must be shown for unrecognized domains.

**3. Non-Functional Requirements**

* NFR-1: The pages must be responsive and accessible on all major browsers (Chrome, Firefox, Safari, Edge, Opera).
* NFR-2: Support WCAG 2.1 Level AA accessibility standards (keyboard nav, screen readers).
* NFR-3: Must function under slow network conditions (2G, 3G).
* NFR-4: All inputs must be secure and protected from XSS/SQLi attacks.
* NFR-5: Page load time should be under 3 seconds in normal conditions.
* NFR-6: User sessions must be securely maintained post-login.
* NFR-7: Error messages must not leak sensitive information.
* NFR-8: Rate limiting should be in place to prevent brute-force attacks.

**4. UI Requirements**

**4.1 Common UI Elements**

* VWO Logo must be present on all auth-related pages.
* Email, password, CAPTCHA, and buttons must be clearly labeled.
* Mobile responsiveness required for phones and tablets.
* Tooltips or help icons for password criteria.

**4.2 Accessibility**

* ARIA labels for form fields.
* Keyboard focus indicators.
* High contrast compatibility.

**5. System Interface**

* Backend authentication APIs (login, forgot password, SSO redirect)
* CAPTCHA service (e.g., Google reCAPTCHA)
* Email service for password reset
* SSO Providers (OAuth or SAML integration)

**6. Assumptions and Dependencies**

* CAPTCHA and email service APIs are already integrated and working.
* SSO providers are configured and support domain-based redirects.
* The system has role-based access post-login (not covered in this doc).

**7. Acceptance Criteria**

* User should be able to login successfully with valid credentials.
* Proper validation and error messages should be shown for invalid cases.
* All four pages should follow UI/UX consistency.
* The module should pass all functional, UI, accessibility, regression, and integration test cases.

**Module 1: Sign in to VWO Platform**

**URL:** <https://app.vwo.com/#/login>  
**Screenshot:** Included in design doc

**Functional Requirements:**

* Allow users to log in using **email + password**
* Validate presence of both fields before enabling login
* CAPTCHA verification must be passed before submission
* "Remember Me" checkbox retains session
* Redirects:
  + “Forgot Password?” → Forgot Password page
  + “Sign in using SSO” → SSO login page
  + “Start a free trial” → Free Trial page

**UI Requirements:**

* Primary button: **Sign In** (purple)
* Email and password fields must show errors on invalid input
* CAPTCHA widget from Google
* Minimal, clean layout with modern color scheme

**Module 2: Forgot Password**

**URL:** <https://app.vwo.com/#/forgot-password>

**Functional Requirements:**

* Accepts only registered/valid emails
* On submit, shows confirmation message (email sent)
* Invalid email or empty field must trigger error
* "Back" link returns to Login page

**UI Requirements:**

* Single input field (email)
* Primary button: **Reset Password**
* Left-aligned form with marketing content on the right

**Module 3: Sign in using SSO**

**URL:** <https://app.vwo.com/#/sso>

**Functional Requirements:**

* Accepts **company domain email only**
* Clicking “Sign in” redirects to configured Identity Provider (IdP)
* Invalid domain/email should show inline validation error
* "Back" link returns to Login page

**UI Requirements:**

* Email-only input field
* Button: **Sign in** (purple)
* Consistent with forgot password layout

**Module 4: Start a Free Trial**

**URL:** https://vwo.com/free-trial

**Functional Requirements:**

* Must accept **valid business email only**
* User must check **Privacy Policy & Terms** checkbox
* On submit, user is redirected to onboarding
* Free trial duration: **30 days**
* No credit card required

**UI Requirements:**

* Email input, checkbox, and submit button
* Testimonials and brand credibility logos on left side
* Cookie consent bar at the bottom
* Submit button inactive until checkbox is checked

**Common Design Standards**

| **Aspect** | **Standard** |
| --- | --- |
| Fonts | Modern sans-serif, consistent across pages |
| Buttons | Rounded with hover effects, purple for CTAs |
| Error Handling | Inline, clear, next to respective fields |
| Responsiveness | Layout should adapt on mobile & desktop |
| Accessibility | Tab-based navigation, screen reader-friendly |