LogSmart Accessibility Testing

Date: December 8th, 2025
Tools Used: Google Lighthouse v13.0.1, WAVE Extension
Scope: All Pages

Overall Study Summary

The overall accessibility posture of the **LogSmart.app** web application is strong. The majority of the audited pages achieved a score of **95/100**, with the Landing Page and Templates Dashboard achieving a perfect **100/100**.

The application successfully adheres to most structural ARIA standards, navigation best practices, and image tagging requirements. The remaining issues are primarily **Visual/Design (Colour Contrast)** and **Semantics (IDs and Labels)**. These are low-effort, high-impact fixes that will likely bring the score to 100 across the board.

Global / Systemic Issues

Multiple issues appear on multiple pages on the site, possibly suggesting they originate from shared components (e.g., Headers, Global CSS).

Issue 1: Color Contrast (WCAG AA 1.4.3)

Severity: High (Affects legibility for users with low vision)

Affected Pages: Dashboard, Users Admin, Reports, Settings.

Multiple text elements do not meet the required contrast ratio of **4.5:1** (for normal text) or **3:1** (for large text). The primary brand colour (`#94C5CC`) is too light when used against white backgrounds or as a background for white text.

- **The Header Logo/Link:**
  - **Element:** `<a href="/dashboard" class="text-2xl font-bold">`
  - **Current Colours:** Text `#94C5CC` (Light Blue) on Background `#ffffff` (White).
  - **Current Ratio: 1.88:1** (Fails)
  - **Requirement:** Must be at least 3:1 for large text.
- **User Avatar (Initials):**
  - **Element:** User profile circle containing "BD".
  - **Current Colours:** Text `#ffffff` on Background `#94C5CC` .
  - **Current Ratio: 1.88:1** (Fails)

Changes Necessary: Darken the main colour `#94C5CC` to a shade such as `#4A8B94` or darker to ensure sufficient contrast.

Issue 2: Header Scaling Issue

Page-Specific Findings

Users Admin Page (`/users-admin`)

Lighthouse Score: 95 - This page contains specific semantic markup errors that can confuse assistive technology (screen readers).

- **Issue 1: Duplicate ID Attributes**
  - **Diagnosis:** The ID `email` is used on multiple elements (likely a form inside the main content *and* a separate form inside the sidebar).
  - **Impact:** Screen readers and keyboard navigation rely on unique IDs to associate labels with inputs. Duplicate IDs break this association, making it difficult to know which field is being filled out.
  - **Fix:** Ensure the ID for the sidebar email input is unique (e.g., `id="sidebar-email"`).
- **Issue 2: Label & Accessible Name Mismatch (WCAG 2.5.3)**
  - **Element:** `<button aria-label="Send email">Send Invite</button>`
  - **Diagnosis:** The visible text says "Send Invite," but the screen reader announces "Send email" via the aria-label.
  - **Impact:** Users using speech-recognition software (like Dragon NaturallySpeaking) may say "Click Send Invite," but the software won't recognise the command because the underlying code calls it "Send email."
  - **Fix:** Change the `aria-label` to match the visible text, or remove the `aria-label` if the visible text describes the action sufficiently.

Settings Page (`/settings`)

Lighthouse Score: 95 - Apart from the global header issue, there is a specific button contrast failure.

- **Issue: Button Contrast**
  - **Element:** `<button class="btn-create...">+ Create New Template</button>`
  - **Current Colours:** Text `#ffffff` on Background `#5cb85c` (Green).
  - **Current Ratio: 2.48:1** (Fails).
  - **Fix:** Darken the green background to approximately `#2c7c2c` (or a similar accessible shade) to meet the 4.5:1 ratio.

Reports Page (`/reports`)

Lighthouse Score: 95

- **Issue: Button Contrast**
  - **Element:** "Generate" Button
  - **Current Colours:** Text `#111827` (Dark Grey) on Background `#6b7280` (Medium Grey).
  - **Current Ratio: 3.66:1** (Fails).
  - **Fix:** Lighten the background colour or darken the text colour to increase separation between the text and the button face.

Templates Dashboard (`/templates-dashboard`) and Templates Designer (`/templates-designer`)

Lighthouse Scores: 95

- **Issue: Missing form labels**
  - **Element:** Search Templates Text input and Enter Template Title input
  - **Current Issue**: Missing form label - a form control does not have a corresponding label.
    - **Fix:** Add the required form label to allow the function or purpose of that form control to be presented to screen reader users.
- **Issue: Buttons Contrast**
  - **Element:** "Snap On" and "Create New" Buttons
  - **Current Ratio: 2.48:1** (Fails).
  - **Fix:** Darken the background colour or darken the text colour to increase separation between the text and the button face.

Landing Page (`/`)

Lighthouse Score: 100

- **Status:** No automated accessibility errors found. This page is compliant with Lighthouse checks.

Technical & SEO Observations

While these checks are not strictly necessary, they impact how users (and bots) access and index the site, so are worth while paying attention to, ensuring a consistent index for all users.

- **Robots.txt Error (All Pages):**
  - **Error:** "Unknown directive" on Line 29 (`Content-signal: search=yes,ai-train=no`).
  - **Context:** This looks like an attempt to control AI scraping. Standard web crawlers may choke on invalid syntax. Ensure this is formatted correctly according to the `robots.txt` standard or moved to meta tags if intended for specific bots.
- **Back/Forward Cache (BFCache):**
  - The site is failing BFCache restoration due to browser extension messaging. This affects navigation speed for users relying on the "Back" button, which can be an accessibility concern for users with cognitive limitations requiring fluid navigation.