

## Important Links:

- GitHub Repository: [AI Study Buddy GitHub Repo](#)
- Live Deployed Site: [ai-study-buddy-4.onrender.com](#)

# Accessibility Report - AI Study Buddy

***Team:*** Group 3



***Audit Date:*** April 14–15, 2025

***Audit Tool:*** Lighthouse (Chrome DevTools)

***Views Audited:*** Desktop & Mobile

***Report Files:*** See docs/accessibility/ folder in the GitHub repository

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# Audit Scope

We audited 8 core pages of the application across both desktop and mobile views.

Page	Route	Desktop Report	Mobile Report
Login	/login	✔ login.html	✔ login-mobile.html
Signup	/signup	✔ signup.html	✔ signup-mobile.html
Dashboard	/dashboard	✔ dashboard.html	✔ dashboard-mobile.html
Study Materials Index	/study-materials	✔ study-materials.html	✔ study-materials-mobile.html
Study Material Detail	/study-materials/:id	✔ study-materials:id.html	✔ study-materials:id-mobile.html
Edit Material	/study-materials/:id/edit	✔ study-materials:is:edit.html	✔ study-material:id:edit-mobile.html
Profile Page	/profile	✔ profile.html	✔ profile-mobile.html
Admin Reports	/admin-reports	✔ admin-reports.html	✔ admin-reports-mobile.html

# Accessibility Scores Summary

## Desktop

Page	Lighthouse Score (Accessibility)
login.html	100 / 100
signup.html	100 / 100
dashboard.html	92 / 100
study-materials.html	96 / 100
study-materials:id.html	89 / 100
study-materials:id:edit.html	90 / 100
profile.html	100 / 100
admin-reports.html	100 / 100

## Mobile

Page	Score (Accessibility)
Login	100
Signup	100
Dashboard	91
Study Materials Index	95
Study Material Detail	89
Edit Material	90
Profile	100
Admin Reports	100

## Strengths

- **Keyboard Navigation:** All interactive elements are focusable and accessible using only the keyboard.
- **Semantic HTML Tags:** Proper use of `<nav>`, `<section>`, `<main>`, `<button>`, and heading levels (`<h1>`, `<h2>`) improves screen reader parsing.
- **Contrast Compliance:** Most text meets WCAG 2.1 AA contrast guidelines, especially post styling updates.
- **Form Guidance:** Most input fields use placeholder text or logical grouping to guide users.
- **Mobile View:** The hamburger menu works correctly, all pages render responsively, and there's no horizontal scrolling or hidden content.

## Improvements Needed (Optional – Not Addressed)

We identified minor accessibility issues during the audits. These were not fixed due to time constraints but are documented below for future reference:

Page	Issue Description
Dashboard	Missing ARIA landmarks or “skip to main content” link.
Study Detail Page	Low contrast on some small elements (e.g., action buttons like "Delete" or "Report").
Edit Material Page	Form fields lack <code>&lt;label&gt;</code> tags or ARIA descriptions for full screen reader context.
All Forms	Use of placeholder text without <code>&lt;label&gt;</code> tags — not ideal for screen reader users.

These issues do not block usage but may slightly impact screen reader usability or accessibility audits in production.

## Conclusion

The **AI Study Buddy** web application demonstrates strong accessibility support across all major user flows, especially on mobile and for authenticated users. Most common accessibility best practices were followed, including semantic markup, keyboard support, and responsive design.

While a few refinements remain (especially for form labeling and ARIA roles), the app is overall highly accessible for both desktop and mobile users.