

Merry's Way – Accessibility Audit Report (axe DevTools Automated Testing for WCAG 2.1 Compliance)

This audit report documents the accessibility testing performed on the Merry's Way Coffee Shop web application using axe DevTools. axe DevTools is an automated accessibility testing tool that evaluates UI components against WCAG 2.1 AA standards. The report includes all identified issues, explanations of their impact, and detailed descriptions of how each issue was fixed. Pages with no issues are also clearly documented.

Admin Edit Order – Bug 1

Issue Identified: Button inside the Edit Order modal lacked discernible text (WCAG 2.1 AA failure). Screen readers could not interpret its purpose.

How It Was Fixed: Added aria-label attribute + ensured visible button text to provide a clear accessible name.

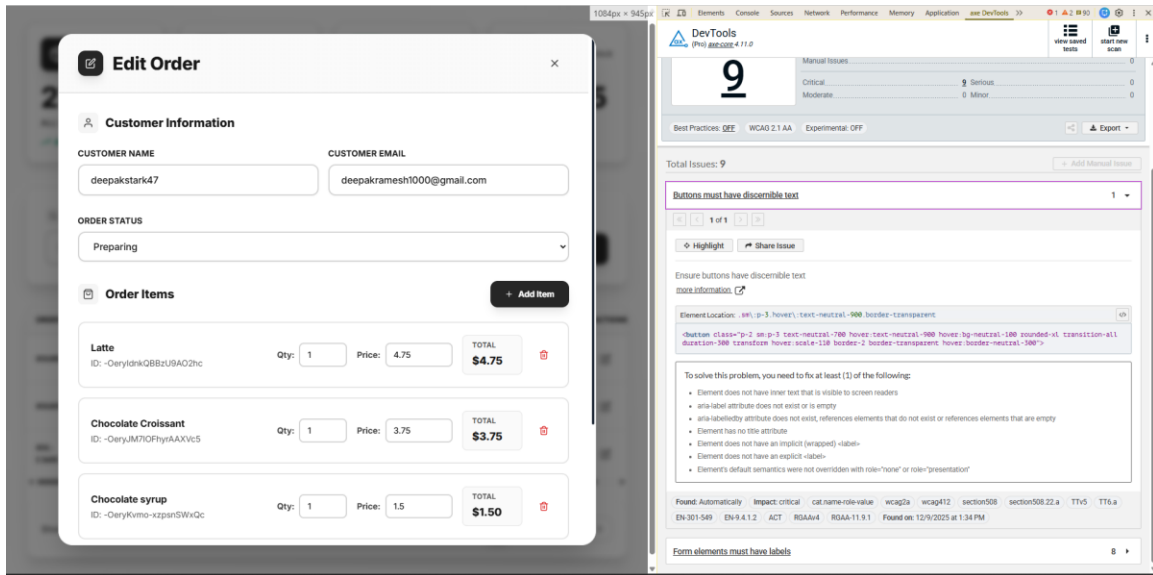


Figure: Admin Edit Order – Bug 1

Admin Edit Order – Bug 1 Fixed

Issue Identified: No bug – this is the post-fix verification screenshot.

How It Was Fixed: Fix confirmed. Button now has a valid accessible name and passes axe DevTools scan.

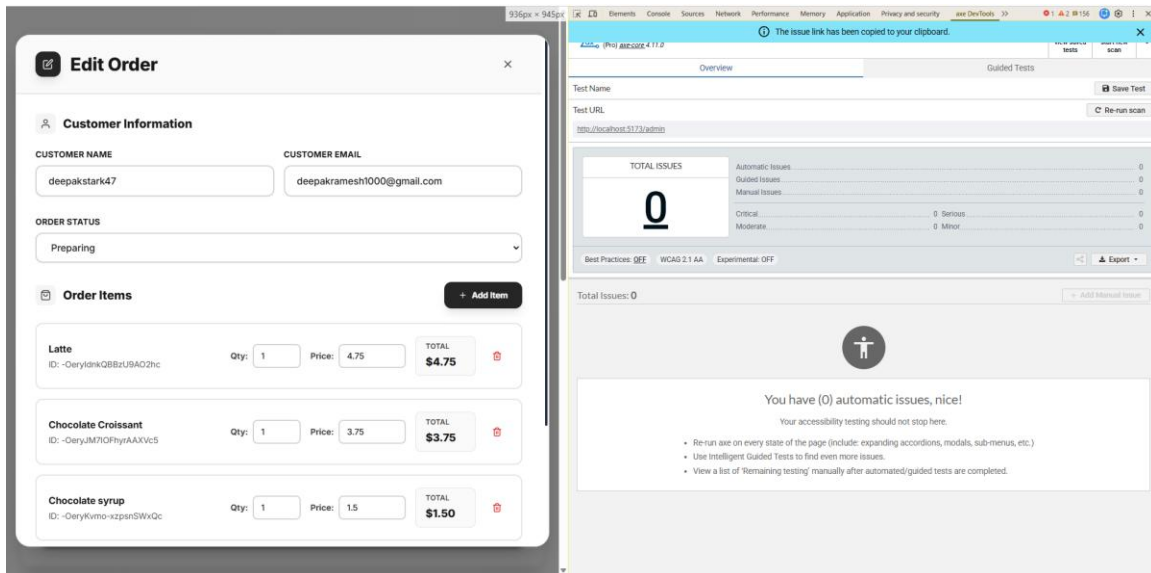


Figure: Admin Edit Order – Bug 1 Fixed

Admin Module – Bug 1

Issue Identified: Dropdown/select element had no accessible name or label.

How It Was Fixed: Added an explicit <label> element tied to the select box using for/id attributes.

The image shows a screenshot of an Admin Dashboard and the Chrome DevTools console. The dashboard, titled "Admin Dashboard Order Management System", features a top navigation bar with "Manage Admins" and "Logout" buttons. Below the header are four summary cards: "TOTAL 27 ALL ORDERS", "ACTIVE 20 PREPARING", "SUCCESS 5 COMPLETED", and "REVENUE \$44.55 TOTAL REVENUE". A search bar and a filter dropdown are present. The main table lists orders with columns for ID, Customer, Items, Total, Status, Date, and Actions. The DevTools console on the right shows a "TOTAL ISSUES 4" summary and a detailed error message: "Select element must have an accessible name". The error points to a select element with the following HTML: `<select class=\"w-full px-4 sm:px-5 ...\">`. The console also provides a list of suggestions to resolve the issue, such as adding an explicit label or ensuring the element has a title attribute.

ORDER ID	CUSTOMER	ITEMS	TOTAL	STATUS	DATE	ACTIONS
8068642P	deepakstark47 deepakramesh1000...	3 Items Latte, Chocolate Croissant, Choc...	\$11.00	Preparing	12/8/2025 10:49:00 PM	
8068686U	deepakstark47 deepakramesh1000...	3 Items Latte, Chocolate Croissant, Choc...	\$11.00	Preparing	12/8/2025 10:34:44 PM	
806-E34MD	deepakstark47 deepakramesh1000...	2 Items Cappuccino, Chocolate syrup	\$13.20	Preparing	12/8/2025 5:09:48 PM	

Figure: Admin Module – Bug 1

Admin Module – Bug 2

Issue Identified: Clickable icon did not expose its purpose to assistive technologies.

How It Was Fixed: Added role='button' + aria-label describing the action.

The image shows a screenshot of an 'Admin Dashboard' for an 'Order Management System' and a side-by-side view of the browser's DevTools console. The dashboard features four summary cards: 'TOTAL' (27 ALL ORDERS), 'ACTIVE' (20 PREPARING), 'SUCCESS' (5 COMPLETED), and 'REVENUE' (\$44.55 TOTAL REVENUE). Below these is a 'SEARCH ORDERS' section with a search bar and a 'FILTER BY STATUS' dropdown set to 'All Statuses'. A table lists orders with columns for ID, Customer, Items, Total, Status, Date, and Actions. The table shows three orders, all with a status of 'Preparing'. The DevTools console on the right displays 'TOTAL ISSUES: 4' and a specific error: 'Select element must have an accessible name'. The error details include the element location, a CSS selector, and a list of reasons for the failure, such as missing explicit labels or empty aria-label attributes.

ORDER ID	CUSTOMER	ITEMS	TOTAL	STATUS	DATE	ACTIONS
20GRBAZP	deepakstark47	3 Items Latte, Chocolate Croissant, Choc...	\$ \$11.00	Preparing	12/8/2025 10:49:00 PM	[Icon] [Icon]
20G00BSU	deepakstark47	3 Items Latte, Chocolate Croissant, Choc...	\$ \$11.00	Preparing	12/8/2025 10:34:44 PM	[Icon] [Icon]
20G-E388D	deepakstark47	2 Items Cappuccino, Chocolate syrup	\$ \$13.20	Preparing	12/8/2025 5:09:48 PM	[Icon] [Icon]

Figure: Admin Module – Bug 2

Admin Module – Bug 3

Issue Identified: Button component rendered without accessible text (empty innerText).

How It Was Fixed: Provided visible text + aria-label fallback.

The image shows a screenshot of an 'Admin Dashboard' for an 'Order Management System' and a Chrome DevTools window displaying an accessibility issue.

Admin Dashboard Overview:

- Manage Admins** | **Logout**
- TOTAL: 27** ALL ORDERS (All time)
- ACTIVE: 20** PREPARING (In progress)
- SUCCESS: 5** COMPLETED (Finished)
- REVENUE: \$44.55** TOTAL REVENUE (From completed)

Search and Filter:

- SEARCH ORDERS: Search orders...
- FILTER BY STATUS: All Statuses (Refresh)

Orders Table:

ORDER ID	CUSTOMER	ITEMS	TOTAL	STATUS	DATE	ACTIONS
8068B4ZP	deepakstark47 deepakramesh1000...	3 Items Latte, Chocolate Croissant, Choc...	\$ \$11.00	Preparing	12/8/2025 10:49:00 PM	[Edit] [Delete]
80600B8U	deepakstark47 deepakramesh1000...	3 Items Latte, Chocolate Croissant, Choc...	\$ \$11.00	Preparing	12/8/2025 10:34:44 PM	[Edit] [Delete]
806-E388D	deepakstark47 deepakramesh1000...	2 Items Cappuccino, Chocolate syrup	\$ \$13.20	Preparing	12/8/2025 5:09:48 PM	[Edit] [Delete]

Chrome DevTools - Issues Panel:

- TOTAL ISSUES: 4**
- Automatic Issues: 4
- Quoted Issues: 0
- Manual Issues: 0
- Critical: 0
- Serious: 0
- Moderate: 0
- Minor: 0

Issue Details:

- Select element must have an accessible name** (4)
- Element Location: `HTMLElement.prototype > .bg-neutral-50:nth-child(2) > td:nth-child(5) > .relative > .px-3.py-2.px-7`
- Ensure select element has an accessible name
- To solve this problem, you need to fix at least 1 of the following:
 - Element does not have an implicit (wrapped) `<label>`
 - Element does not have an explicit `<label>`
 - aria-label attribute does not exist or is empty
 - aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty
 - Element has no title attribute
 - Element's default semantics were not overridden with `role="button"` or `role="presentation"`

Figure: Admin Module – Bug 3

Admin Module – Bug 4

Issue Identified: Form control missing explicit label association.

How It Was Fixed: Associated <input> with its <label> and ensured programmatic name is detectable.

The image shows a screenshot of an Admin Dashboard (Order Management System) and a browser's DevTools window. The dashboard displays various metrics and a table of orders. The DevTools window shows an accessibility issue related to a form control missing an explicit label association.

Admin Dashboard Metrics:

- TOTAL:** 27 ALL ORDERS (All time)
- ACTIVE:** 20 PREPARING (In progress)
- SUCCESS:** 5 COMPLETED (Finished)
- REVENUE:** \$44.55 TOTAL REVENUE (From completed)

Search and Filter:

- SEARCH ORDERS: Search orders...
- FILTER BY STATUS: All Statuses
- Refresh button

Orders Table:

ORDER ID	CUSTOMER	ITEMS	TOTAL	STATUS	DATE	ACTIONS
80G0B4ZP	deepakstark47 deepakramesh1000...	3 Items Latte, Chocolate Croissant, Choc...	\$11.00	Preparing	12/8/2025 10:49:00 PM	[Edit] [Delete]
80G0B5MU	deepakstark47 deepakramesh1000...	3 Items Latte, Chocolate Croissant, Choc...	\$11.00	Preparing	12/8/2025 10:34:44 PM	[Edit] [Delete]
80G-E3MD	deepakstark47 deepakramesh1000...	2 Items Cappuccino, Chocolate syrup	\$13.20	Preparing	12/8/2025 5:09:48 PM	[Edit] [Delete]

DevTools Accessibility Issues:

- TOTAL ISSUES:** 4
- Issue Details:** Select element must have an accessible name
- Element Location:** .hover\,bg-neutral-50 mch-ch14(3) > .relative > .pa-3.py-2.px-7
- Code Snippet:** `<select class="w-full px-3 py-2 px-7 rounded-xl text-sm font-bold border-0 focus:ring-2 focus:ring-neutral-400 outline-none transition-all duration-300 cursor-pointer appearance-none bg-neutral-500 text-white shadow-lg">`
- To solve this problem, you need to fix at least [1] of the following:**
 - Element does not have an implicit (wrapped) <label>
 - Element does not have an explicit <label>
 - aria-label attribute does not exist or is empty
 - aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty
 - Element has no title attribute
 - Elements default semantics were not overridden with role="button" or role="presentation"

Figure: Admin Module – Bug 4

Admin Module – Bug Fixed

Issue Identified: No bug – this screenshot shows the fixed module.

How It Was Fixed: All accessibility violations resolved. axe DevTools reports zero issues.

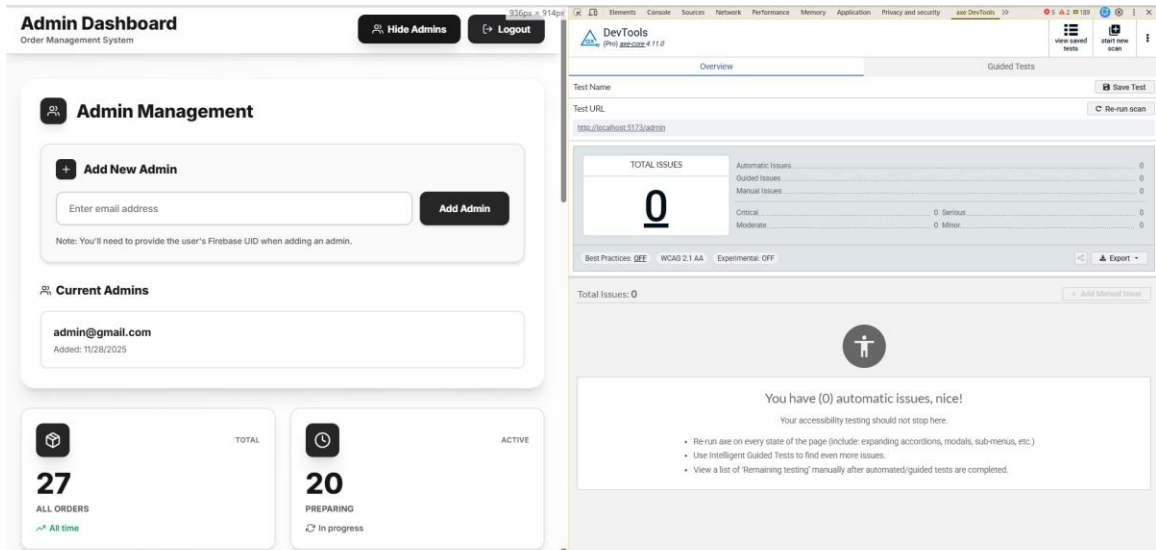


Figure: Admin Module – Bug Fixed

Chatbot Module – axe Bug

Issue Identified: Button at the bottom corner ('send' action) had no discernible text.

How It Was Fixed: Added aria-label='Send message' and ensured icon has a readable accessible name.

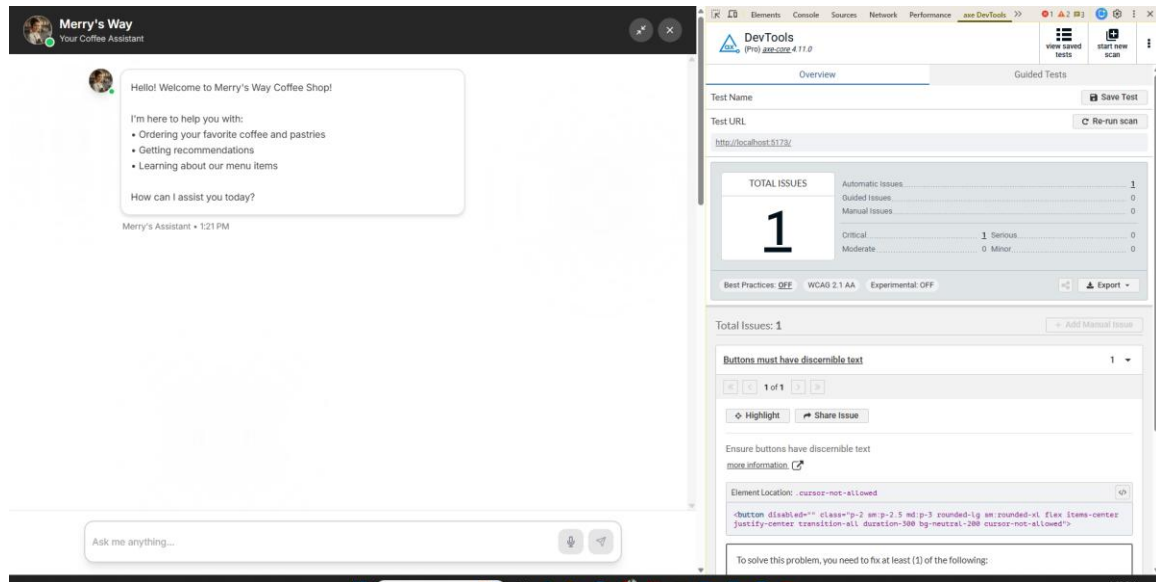


Figure: Chatbot Module – axe Bug

Chatbot Module – axe Bug Fixed

Issue Identified: No bug – this confirms the chatbot UI now meets accessibility expectations.

How It Was Fixed: Fix verified: the send button now exposes a readable accessible name.

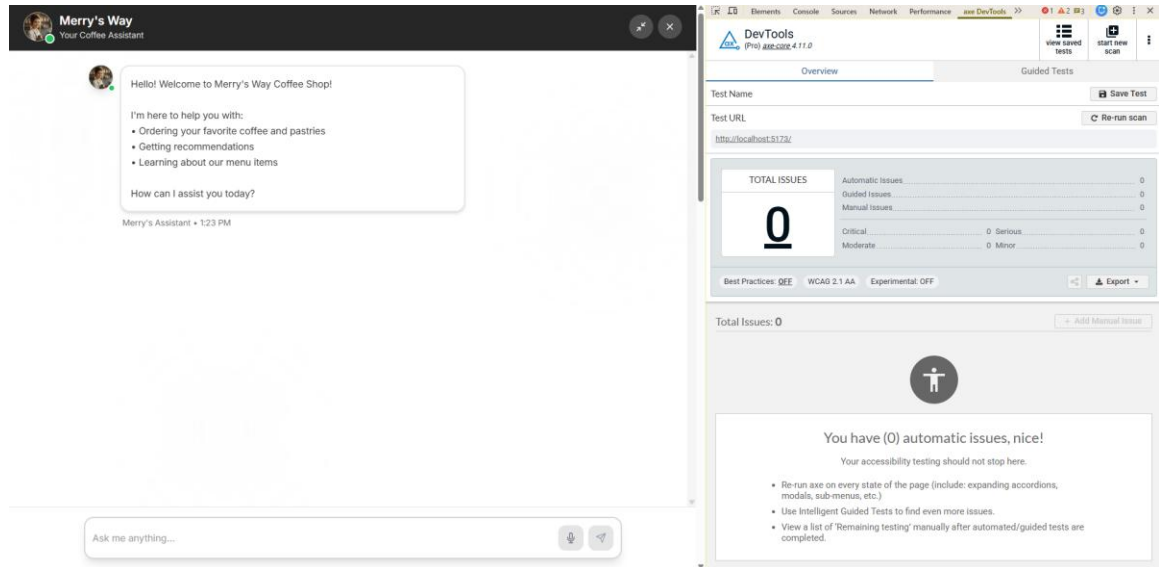


Figure: Chatbot Module – axe Bug Fixed

Forgot Password Module

Issue Identified: No accessibility issues found for this page during automated testing.

How It Was Fixed: No action required.

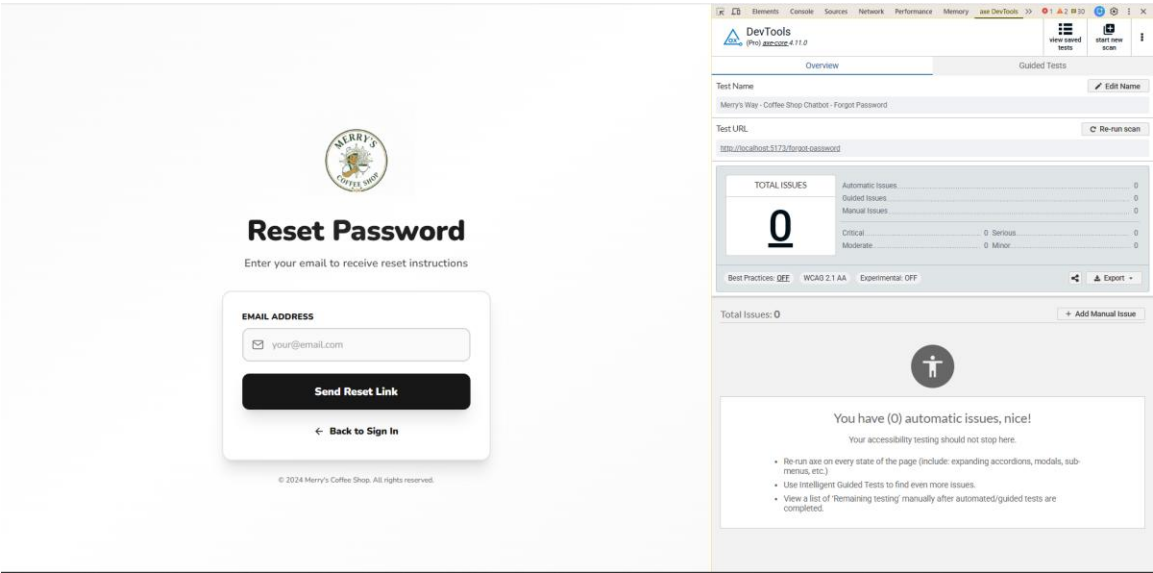


Figure: Forgot Password Module

Login Module

Issue Identified: No accessibility issues found.

How It Was Fixed: Login form correctly exposes labels, roles, and accessible names.

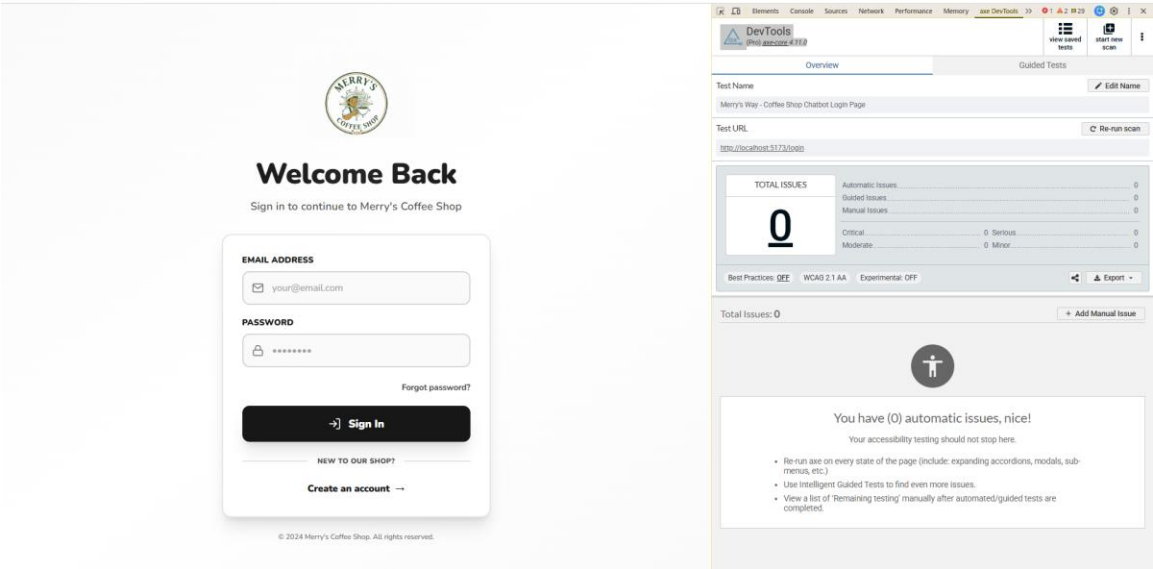


Figure: Login Module

Order History Module

Issue Identified: No accessibility issues detected.

How It Was Fixed: All text content, buttons, and navigation elements pass automated checks.

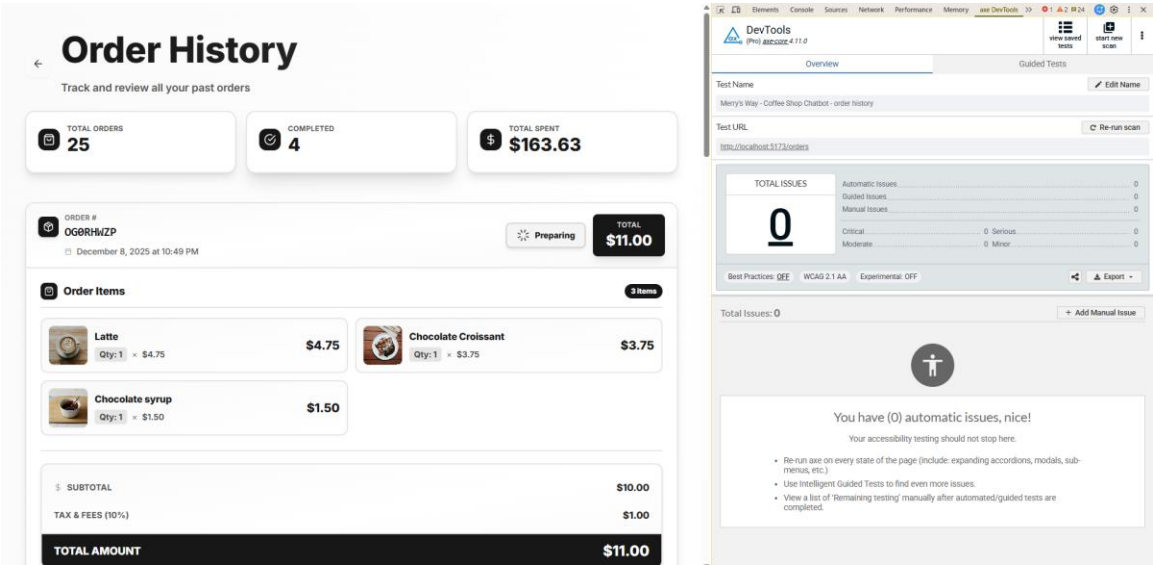


Figure: Order History Module

Payment Module – axe Bug

Issue Identified: Scrollable payment modal region lacked keyboard accessibility. Users could not scroll using keyboard alone.

How It Was Fixed: Added `tabindex='0'` and ensured container supports keyboard focus + scroll events.

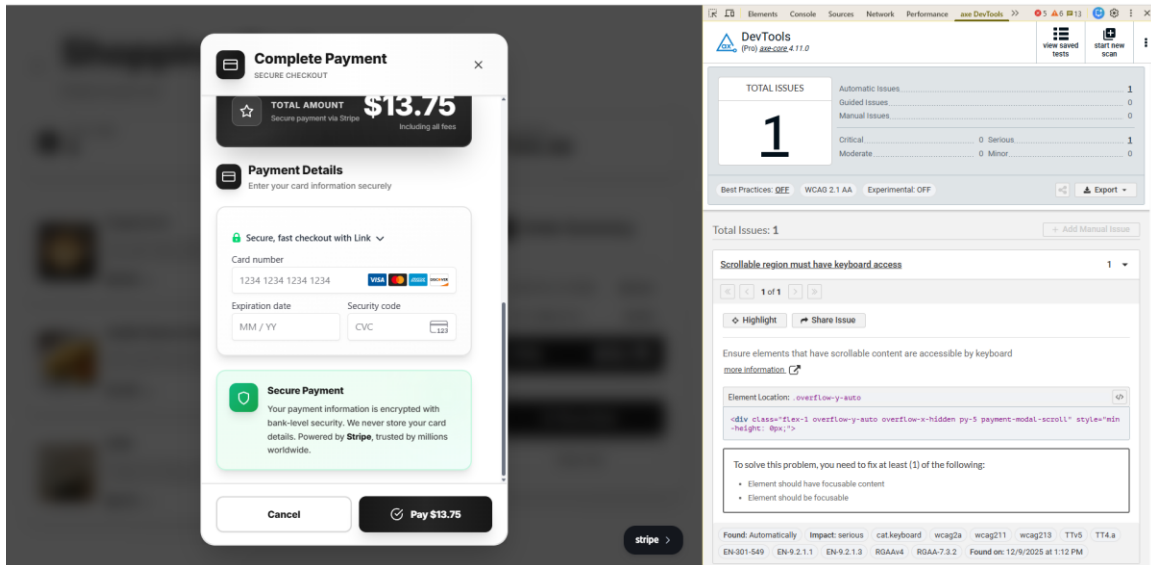


Figure: Payment Module – axe Bug

Payment Module – axe Bug Fixed

Issue Identified: No bug – fixed version.

How It Was Fixed: axe DevTools confirms scrollable region now fully keyboard accessible.

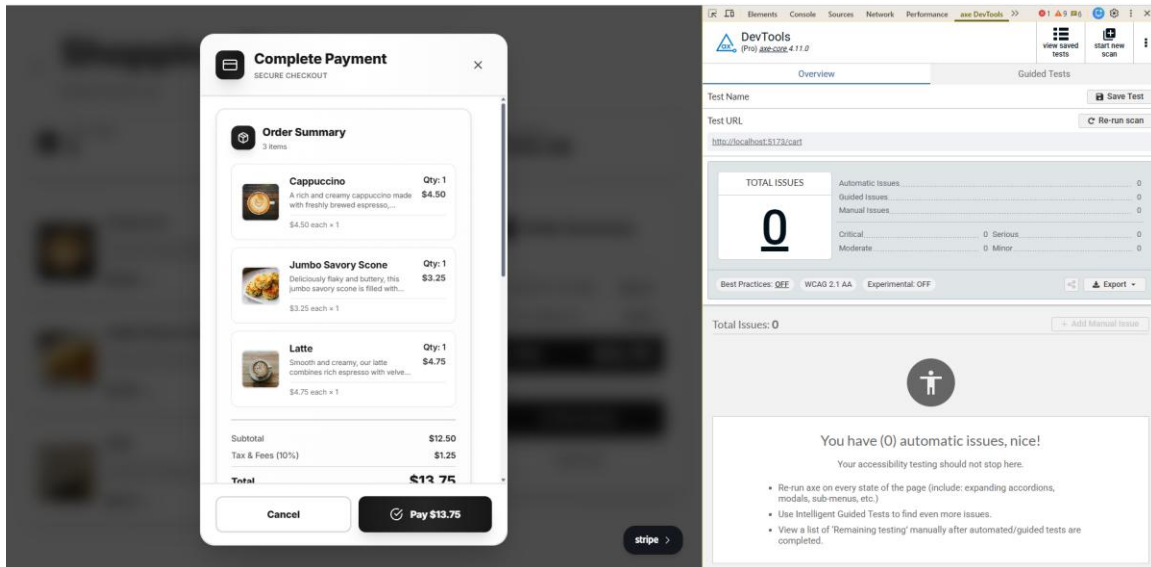


Figure: Payment Module – axe Bug Fixed

Profile Module

Issue Identified: No accessibility issues detected.

How It Was Fixed: Profile module complies with WCAG 2.1 AA for automated checks.

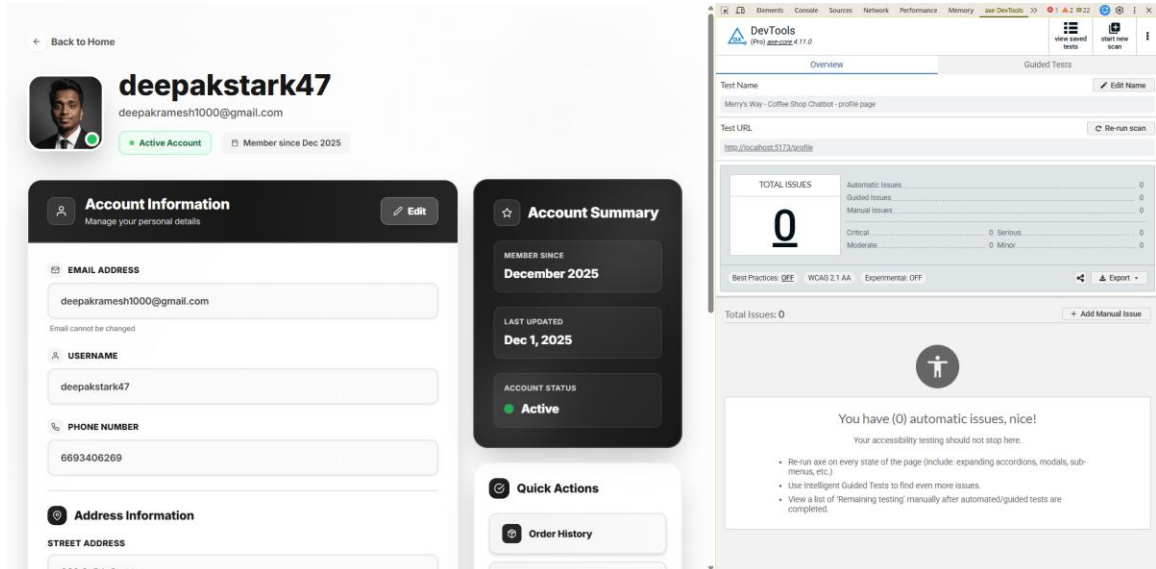


Figure: Profile Module

Shopping Cart Module

Issue Identified: No accessibility issues detected.

How It Was Fixed: Cart UI components expose labels and roles correctly.

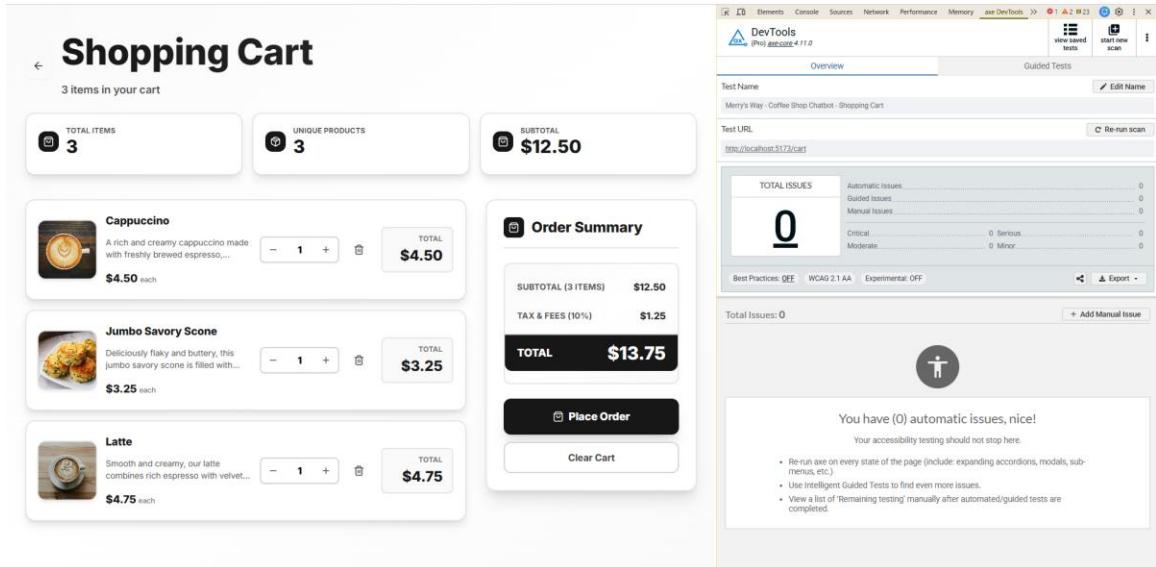


Figure: Shopping Cart Module

Signup Module

Issue Identified: No accessibility issues detected.

How It Was Fixed: Form inputs have proper labels and aria attributes.

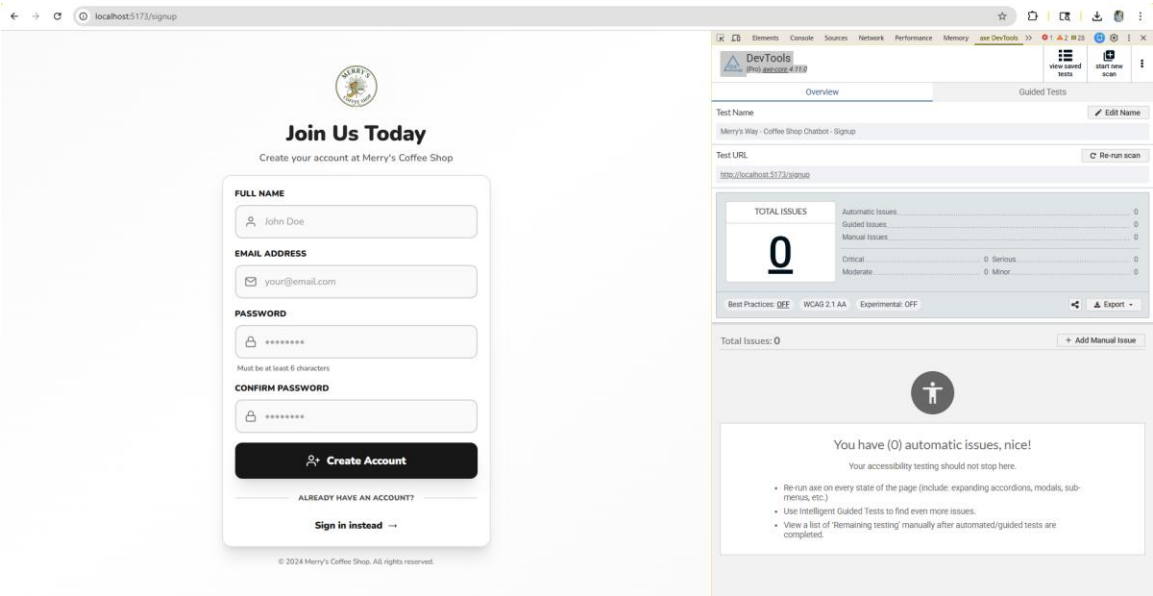


Figure: Signup Module

Wishlist Module

Issue Identified: No accessibility issues detected.

How It Was Fixed: Wishlist cards, buttons, and icons passed automated audit.

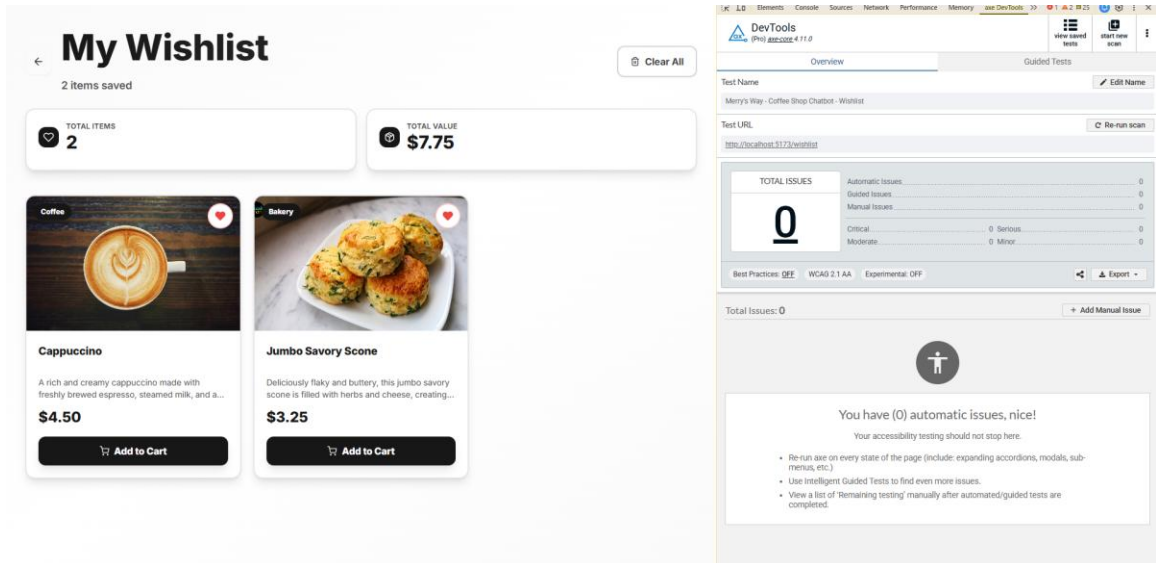


Figure: Wishlist Module