

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.

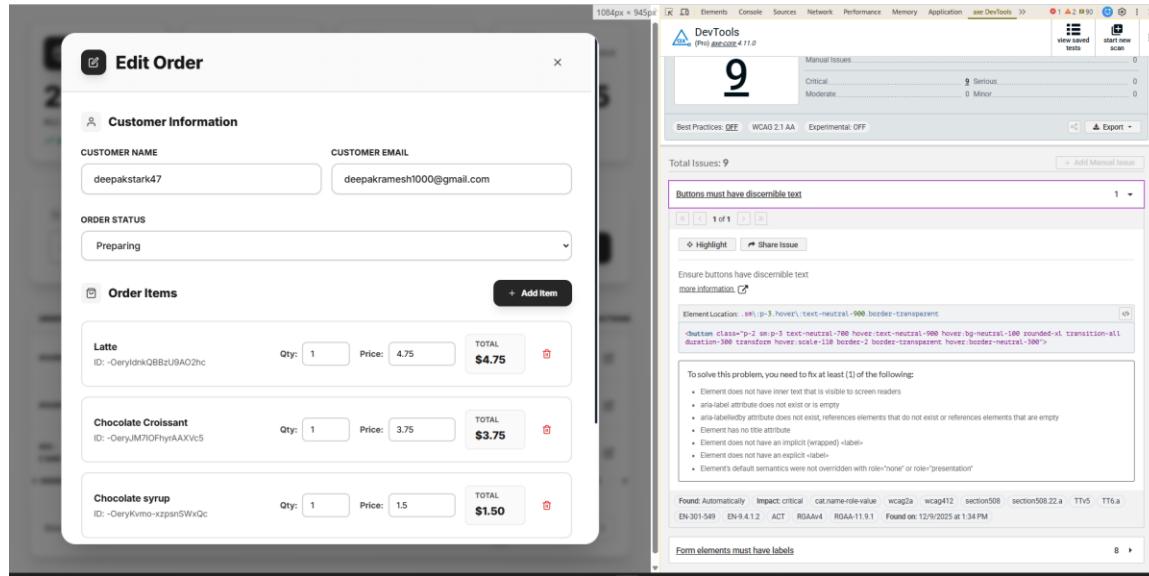


Figure: Admin Edit Order – Bug 1

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.

The screenshot displays two side-by-side browser windows. On the left is the 'Edit Order' application interface. It shows 'Customer Information' with 'CUSTOMER NAME' as 'deepakstark47' and 'CUSTOMER EMAIL' as 'deepakramesh1000@gmail.com'. The 'ORDER STATUS' is set to 'Preparing'. Below this is the 'Order Items' section, which lists three items: 'Latte' (Qty: 1, Price: 4.75, Total: \$4.75), 'Chocolate Croissant' (Qty: 1, Price: 3.75, Total: \$3.75), and 'Chocolate syrup' (Qty: 1, Price: 1.5, Total: \$1.50). On the right is the 'axe DevTools' results window. It shows 'TOTAL ISSUES' as 0. Under 'Automatic Issues', it shows 0 Critical, 0 Serious, and 0 Minor issues. Under 'Guided Issues', it shows 0 issues. Under 'Manual Issues', it shows 0 issues. A large '0' icon is prominently displayed. At the bottom, a message states 'You have (0) automatic issues, nice!' followed by a list of three recommendations: 'Re-run axe on every state of the page (include: expanding accordions, modals, sub-menus, etc.)', 'Use Intelligent Guided Tests to find even more issues', and 'View a list of 'Remaining testing' manually after automated/guided tests are completed.'

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 screenshot shows the Admin Dashboard of an Order Management System. At the top, there are four summary cards: 'TOTAL ORDERS' (27), 'ACTIVE' (20), 'SUCCESS' (5), and 'REVENUE' (\$44.55). Below these are search and filter controls for orders. A main table lists three orders with details like customer name, items, total, status, date, and actions. On the right, the DevTools panel is open, specifically the 'Elements' tab under 'DevTools'. It shows a list of 'TOTAL ISSUES' (4) with one item highlighted: 'Select element must have an accessible name'. The 'Element Location' is identified as '#select: class="w-full px-4 sm:px-5 ..."'.

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 screenshot shows the Admin Dashboard of an Order Management System. At the top, there are four summary cards: 'TOTAL ORDERS' (27), 'ACTIVE' (20), 'SUCCESS' (5), and 'REVENUE' (\$44.55). Below these are search and filter controls for orders. A main table lists three orders with details like customer name, items, total, status, date, and actions. The 'Actions' column contains icons for each row. On the right, the DevTools panel is open at the 'Elements' tab, specifically on the 'Issues' section. It highlights a warning for the 'Prepared' button in the first row of the order table, stating: 'Select element must have an accessible name'. It provides a detailed element location and a list of five specific accessibility issues that need to be resolved.

ORDER ID	CUSTOMER	ITEMS	TOTAL	STATUS	DATE	ACTIONS
ROG08H4ZP	deepakstark47	3 Items Latte, Chocolate Croissant, Chocol...	\$ 11.00	Preparing	12/8/2025 10:49:00 PM	
ROG09R8XU	deepakstark47	3 Items Latte, Chocolate Croissant, Chocol...	\$ 11.00	Preparing	12/8/2025 10:34:44 PM	
ROG-E3ahD	deepakstark47	2 Items Cappuccino, Chocolate syrup	\$ 13.20	Preparing	12/8/2025 5:09:48 PM	

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 screenshot shows the Admin Dashboard of an Order Management System. The dashboard features four main statistics boxes: Total Orders (27), Active Orders (20), Success (5), and Revenue (\$44.55). Below these are search and filter controls for orders, and a detailed list of orders with columns for Order ID, Customer, Items, Total, Status, Date, and Actions. The DevTools console on the right highlights a bug in the 'Actions' column of the order list. It shows an element located at `:hover\bg-neutral-50 md\:child(2) > td:md\:child(5) > .relative > .px-3 py-2 sm:-7 sm:40px -sm:outline-none transition-all duration-300 cursor-pointer appearance-none bg-neutral-800 text-white shadow-lg`. The issue is described as "Select element must have an accessible name" and provides a link to "more information". A list of steps to solve the problem is provided, including fixing implicit labels and ensuring aria-label attributes.

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 screenshot shows the Admin Dashboard of an Order Management System. At the top, there are four summary cards: 'TOTAL ORDERS' (27), 'ACTIVE' (20), 'SUCCESS' (5), and 'REVENUE' (\$44.55). Below these are search and filter controls for orders. A main table lists three orders with details like customer name, items, total, status, date, and actions. On the right side, the DevTools panel is open, specifically the 'Elements' tab. It shows a warning for a select element that must have an accessible name. The element in question is a dropdown menu with the class 'form-select'. The DevTools panel also displays the element's location in the DOM and provides a list of steps to solve the problem, such as adding an explicit label or ensuring the element has a title attribute.

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.

The screenshot displays the Admin Dashboard of an Order Management System. On the left, the Admin Management section includes a form to 'Add New Admin' with an 'Add Admin' button and a note about providing a Firebase UID. Below it is a list of 'Current Admins' with one entry: 'admin@gmail.com' added on 11/28/2025. On the right, the axe DevTools results show zero total issues across categories like Automatic, Guided, and Manual, with no serious or minor issues found. A large '0' indicates no 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.

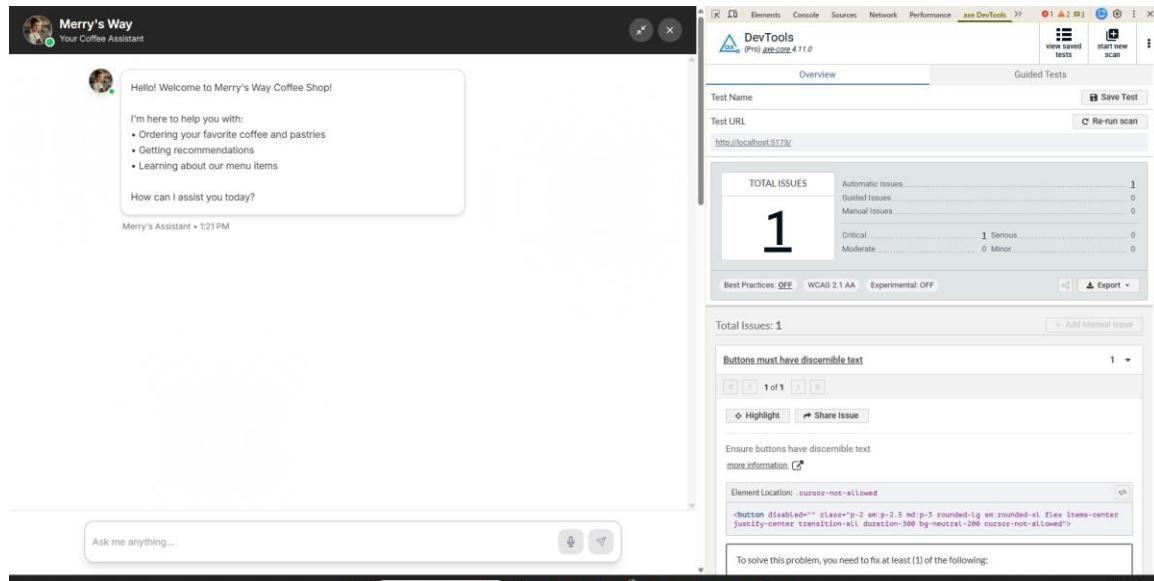


Figure: Chatbot Module – axe Bug

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.

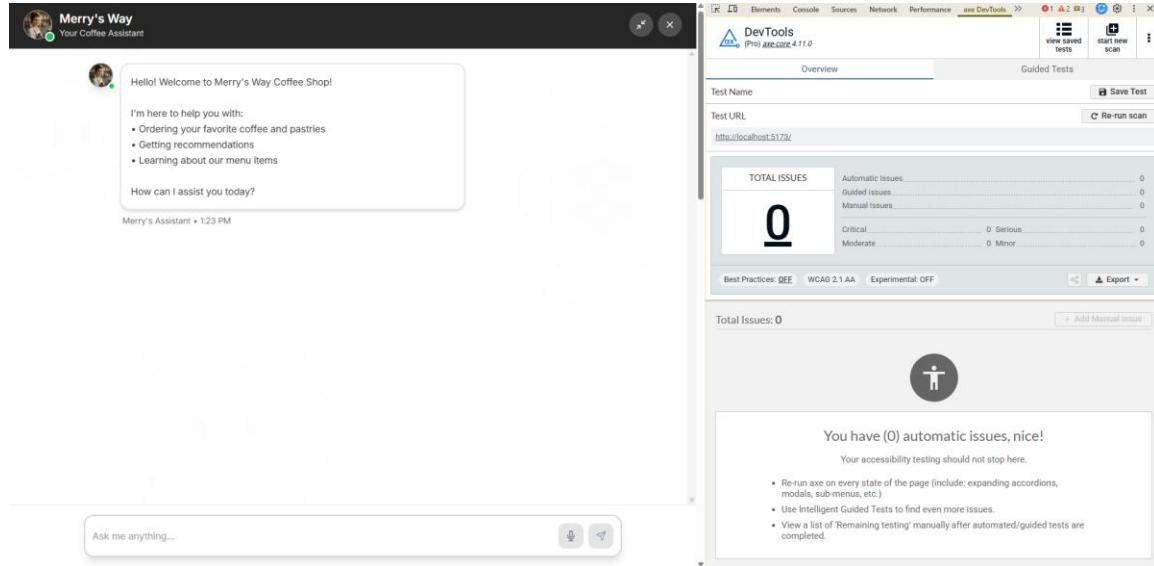


Figure: Chatbot Module – axe Bug Fixed

Forgot Password Module

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

How It Was Fixed: No action required.

The figure displays two side-by-side screenshots. On the left is the 'Reset Password' page of the Merry's Coffee Shop Chatbot. It features a logo at the top, followed by the heading 'Reset Password'. Below it is a form field labeled 'EMAIL ADDRESS' containing 'your@email.com', a 'Send Reset Link' button, and a 'Back to Sign In' link. At the bottom is a copyright notice: '© 2024 Merry's Coffee Shop. All rights reserved.' On the right is a screenshot of the DevTools accessibility report for the same URL. The report shows 'TOTAL ISSUES' as 0. It details 'Automatic Issues' (0), 'Guided Issues' (0), and 'Manual Issues' (0). Under 'Critical' and 'Moderate', both '0 Serious' and '0 Minor' are listed. The report also indicates 'Best Practices: OFF', 'WCAG 2.1 AA: Experimental: OFF', and a 'Re-run scan' button. A summary box states 'You have (0) automatic issues, nice!' and provides three tips: 'Re-run scan on every state of the page (Include: expanding accordions, modals, sub-menus, etc.)', 'Use Intelligent Guided Tests to find even more issues.', and 'View a list of 'Remaining testing' manually after automated/guided tests are completed.'

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.

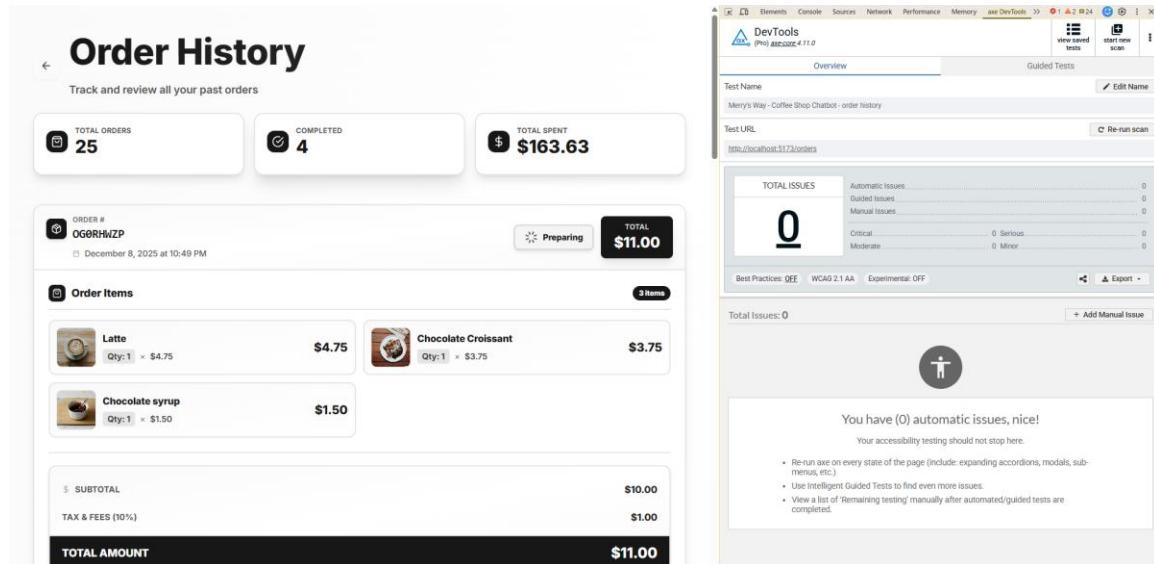
The figure shows a split-screen view. On the left is the Merry's Coffee Shop login page. At the top is a logo for 'MERRY'S COFFEE SHOP'. Below it is a 'Welcome Back' message and a 'Sign in to continue to Merry's Coffee Shop' link. The main area contains fields for 'EMAIL ADDRESS' (with placeholder 'your@email.com') and 'PASSWORD' (with placeholder '*****'). Below these fields is a 'Forgot password?' link. A large black button with white text contains the text '→] Sign In'. Underneath the sign-in button is a link 'NEW TO OUR SHOP?'. At the bottom of the form is a link 'Create an account →'. On the right side of the screen is the Google DevTools Accessibility panel. It shows the test name 'Merry's Way - Coffee Shop Chatbot Login Page' and the test URL 'http://localhost:5173/login'. The 'TOTAL ISSUES' section displays a large '0' and a breakdown of issues: Automatic Issues (0), Guided Issues (0), Manual Issues (0), Critical (0 Serious, 0 Minor), and Moderate (0 Serious, 0 Minor). Below this, a section titled 'You have (0) automatic issues, nice!' provides guidance: 'Your accessibility testing should not stop here.' followed by three bullet points: 'Re-run axe on every state of the page (include: expanding accordions, modals, sub-menus, etc.)', 'Use Intelligent Guided Tests to find even more issues.', and 'View a list of "Remaining testing" manually after automated/guided tests are completed.'

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.



The screenshot displays two side-by-side views. On the left is the 'Order History' interface, which includes a summary bar with 'TOTAL ORDERS 25', 'COMPLETED 4', and 'TOTAL SPENT \$163.63'. Below this is a detailed view of an order from 'ORDER # OG0RHnZP' dated 'December 8, 2025 at 10:49 PM'. The order status is 'Preparing' with a total of '\$11.00'. The order items listed are 'Latte' (\$4.75), 'Chocolate Croissant' (\$3.75), and 'Chocolate syrup' (\$1.50). At the bottom, breakdowns show a 'SUBTOTAL' of '\$10.00', 'TAX & FEES (10%)' of '\$1.00', and a final 'TOTAL AMOUNT' of '\$11.00'. On the right is a screenshot of the Chrome DevTools Accessibility panel. It shows 'TOTAL ISSUES 0' with 'Automatic Issues 0', 'Guided Issues 0', and 'Manual Issues 0'. It also shows 'Critical 0 Serious' and 'Moderate 0 Minor'. A note says 'You have (0) automatic issues, nice!' followed by a list of tips: 'Run accessibility tests on every state of the page (include: expanding accordions, modals, sub-menus, etc.)', 'Use Intelligent Guided Tests to find even more issues', and 'View a list of 'Remaining testing' manually after automated/guided tests are completed.'

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.

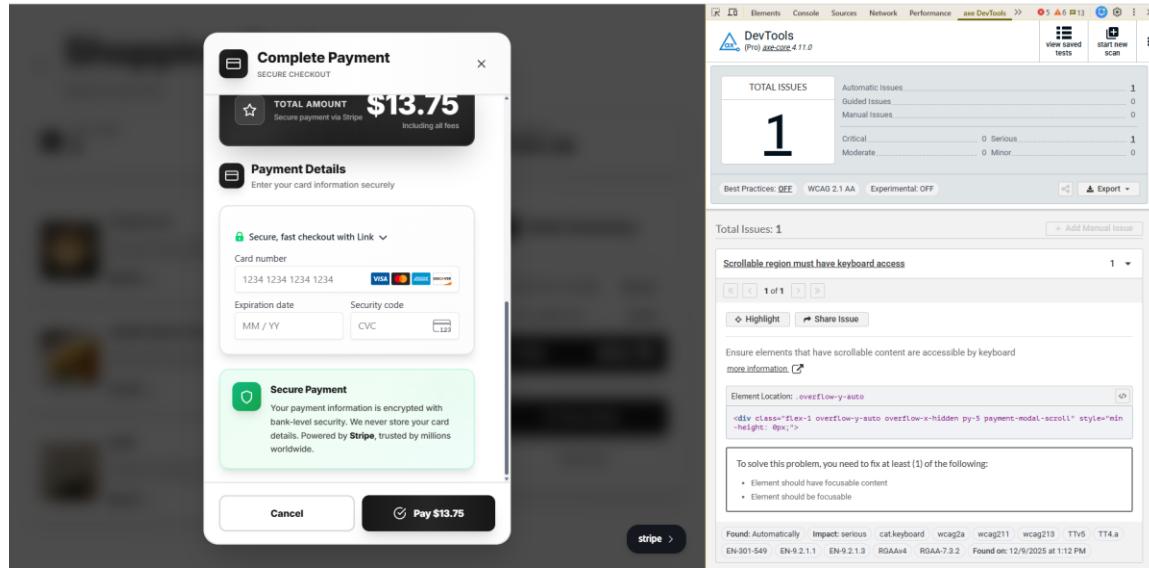


Figure: Payment Module – axe Bug

Payment Module – axe Bug Fixed

Issue Identified: No bug – fixed version.

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

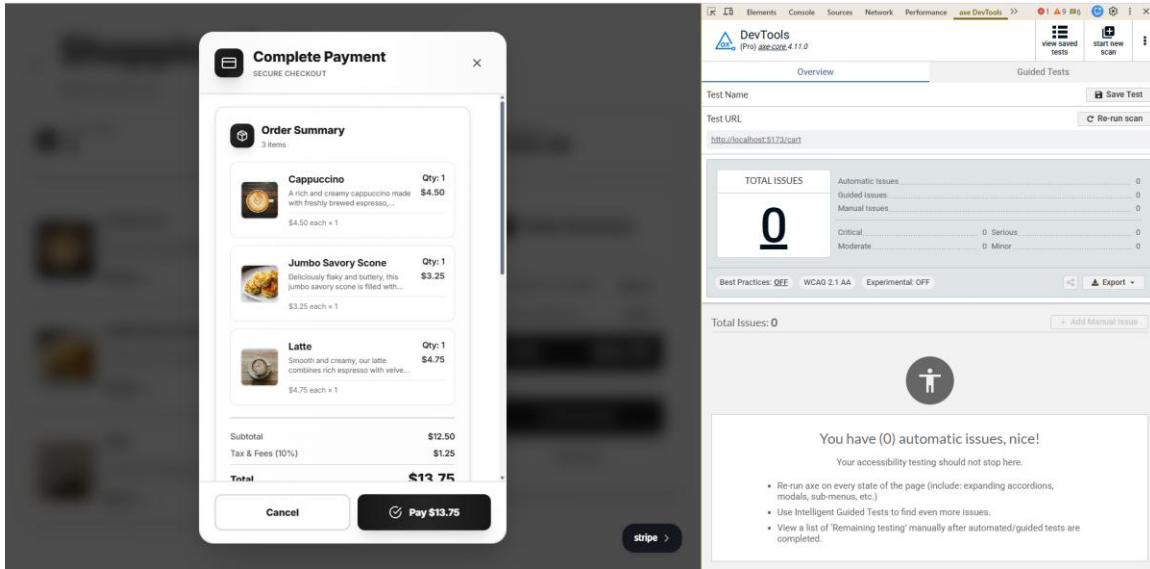


Figure: Payment Module – axe Bug Fixed

Profile Module

Issue Identified: No accessibility issues detected.

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

The figure displays two side-by-side screenshots. On the left is a user profile page for 'deepakstark47'. It shows a profile picture, the username 'deepakstark47', the email 'deepakramesh1000@gmail.com', and a status 'Member since Dec 2025'. Below this are sections for 'Account Information' (Email Address: deepakramesh1000@gmail.com, Username: deepakstark47, Phone Number: 6693406299), 'Address Information' (Street Address: 229 E 5th Street), and 'Account Summary' (Member Since: December 2025, Last Updated: Dec 1, 2025, Account Status: Active). A 'Quick Actions' button leads to 'Order History'. On the right is a screenshot of the DevTools Accessibility panel. It shows a test named 'Merry's Way - Coffee Shop Chatbot - profile page' with a URL of 'http://localhost:5172/profile'. The results show 'TOTAL ISSUES' at 0, with 0 Critical and 0 Moderate issues. It also indicates 'Automatic Issues' (0 Guided Issues, 0 Manual Issues) and 'WCAG 2.1 AA' compliance status. A note says 'You have (0) automatic issues, nice!' followed by a list of three items: 'Re-run scan on every state of the page (Include: expanding accordions, modals, sub-menus, etc.)', 'Use Intelligent Guided Tests to find even more issues.', and 'View a list of 'Remaining testing' manually after automated/guided tests are completed.'

Figure: Profile Module

Shopping Cart Module

Issue Identified: No accessibility issues detected.

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

The screenshot displays the Shopping Cart module interface and an axe DevTools accessibility audit report.

Shopping Cart Interface:

- Total Items:** 3
- Unique Products:** 3
- Subtotal:** \$12.50

Order Summary:

Subtotal (3 Items)	\$12.50
TAX & FEES (10%)	\$1.25
TOTAL	\$13.75

Items in Cart:

- Cappuccino:** A rich and creamy cappuccino made with freshly brewed espresso....
\$4.50 each
- Jumbo Savory Scone:** Deliciously flaky and buttery, this jumbo savory scone is filled with...
\$3.25 each
- Latte:** Smooth and creamy, our latte combines rich espresso with velvet...
\$4.75 each

Order Actions:

- Place Order
- Clear Cart

axe DevTools Accessibility Audit:

- Test Name:** Mem's Way - Coffee Shop Chatbot - Shopping Cart
- Test URL:** http://localhost:5173/cart
- Total Issues:** 0
- Automatic Issues:** 0
- Guided Issues:** 0
- Manual Issues:** 0
- Critical:** 0 Serious, 0 Minor
- Moderate:** 0 Serious, 0 Minor

Notes:

- You have (0) automatic issues, nice!
- Your accessibility testing should not stop here.
- Re-run axe on every state of the page (include: expanding accordions, modals, sub-menus, etc.)
- Use Intelligent Guided Tests to find even more issues.
- View a list of 'Remaining testing' manually after automated/guided tests are completed.

Figure: Shopping Cart Module

Signup Module

Issue Identified: No accessibility issues detected.

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

The screenshot shows a browser window with two panes. The left pane displays the 'Join Us Today' signup form for 'Merry's Coffee Shop'. The right pane shows the 'DevTools' accessibility report for the same page.

Form Fields (Left Pane):

- FULL NAME:** Input field containing "John Doe".
- EMAIL ADDRESS:** Input field containing "your@email.com".
- PASSWORD:** Input field showing masked text "*****". Below it, a note says "Must be at least 6 characters".
- CONFIRM PASSWORD:** Input field showing masked text "*****".

Buttons:

- A large black button labeled "Create Account" with a person icon.
- A smaller link "ALREADY HAVE AN ACCOUNT? Sign in instead →".

DevTools Accessibility Report (Right Pane):

- Test Name:** Merry's Way - Coffee Shop Chatbot - Signup
- Test URL:** <http://localhost:5173/signup>
- TOTAL ISSUES:** 0
- Automatic Issues:** 0
- Guided Issues:** 0
- Manual Issues:** 0
- Critical:** 0 Serious, 0 Minor
- Moderate:** 0 Minor

Summary: You have (0) automatic issues, nice!

Instructions:

- Re-run ase on every state of the page (Include: expanding accordions, modals, sub-menus, etc.)
- Use Intelligent Guided Tests to find even more issues.
- View a list of 'Remaining testing' manually after automated/guided tests are completed.

Figure: Signup Module

Wishlist Module

Issue Identified: No accessibility issues detected.

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

The screenshot displays the 'My Wishlist' interface. At the top, it shows 'TOTAL ITEMS 2' and 'TOTAL VALUE \$7.75'. Below this, there are two cards: 'Cappuccino' (a cappuccino with latte art) and 'Jumbo Savory Scone' (a plate of three savory scones). Each card includes an 'Add to Cart' button. To the right, a DevTools window shows an accessibility audit with 0 total issues, indicating no detected problems.

Figure: Wishlist Module