

AI Test Results from testers.ai



The Mastercard app's Home page presents a mixed bag. On one hand, there's a concerning number of accessibility issues, such as missing alt text for the logo and inconsistent aria-label implementations, impacting usability for users with disabilities. Then, we have potential security vulnerabilities arising from outdated third-party libraries like OneTrust and failed resource loading, which raises red flags. Performance is also a concern with failed resource loading due to DNS resolution failure, which likely causes poor user experience.

Best Aspects

The app aims to provide a streamlined user experience, but falls short on core accessibility and security requirements. The home page at least provides a central launch point for key features.

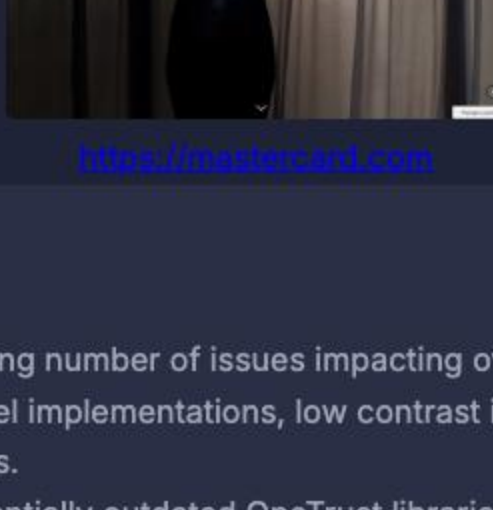
Areas for Improvement

The prevalence of accessibility violations and potential security vulnerabilities on the Home page. The app also exhibits poor UX and accessibility, as well as security issues

Quality Summary

HOME

1.83 seconds



<https://testers.ai.com>

Detailed Analysis

The Mastercard app's Home page reveals a concerning number of issues impacting overall quality. Accessibility takes a hit with problems like missing alt text for the logo, inconsistent aria-label implementations, low contrast in footer links, and a problematic skip navigation link. These issues create barriers for users with disabilities.

From a security perspective, the dependency on potentially outdated OneTrust libraries and the possibility of third-party tracking raise serious concerns about user privacy and data security. Failed resource loading suggests possible vulnerabilities from outdated components, adding another layer of risk.

Performance isn't spared either, with failed resource loading due to DNS resolution failures potentially causing delays and frustration for users. Further UX issues include a missing hamburger menu on the desktop view and inconsistencies in the 'Manage Cookies' button's functionality.

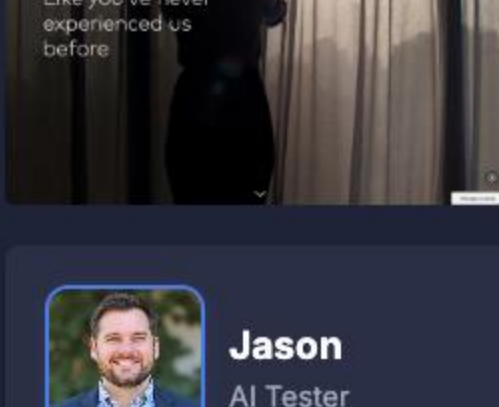
Key Suggestions

- Conduct a thorough accessibility audit using tools like WAVE and axe DevTools to identify and fix all accessibility violations.
- Perform a security assessment to identify and address vulnerabilities arising from outdated third-party libraries and potential tracking mechanisms.
- Implement a monitoring system to detect and prevent failed resource loading issues.
- Establish coding standards and guidelines that prioritize accessibility and security best practices during the development process.

Priority Improvements

- Upgrade the OneTrust library to the latest secure version and rigorously audit for potential third-party tracking to mitigate security risks.
- Fix the failed resource loading issue due to DNS resolution failure to improve performance and availability of core functionality.
- Implement proper alt text for all images, ensure consistent and informative aria-labels throughout the page, and improve the contrast of footer links to significantly enhance accessibility.
- Add the missing Hamburger Menu for the desktop view to improve UX and address user accessibility

Issues Found by AI Testers



HOME

Jason
AI Tester

Failed to load resource due to DNS resolution failure

Priority: 8/10 Confidence: 8/10

network performance

Why is this a bug?
The "net::ERR_NAME_NOT_RESOLVED" error signifies that the browser couldn't resolve the domain name of the resource being requested. This will lead to a broken page, missing functionality, and a poor user experience. It prevents necessary resources from loading.

Suggested Fix
Investigate the DNS configuration of the server hosting the resource. Verify that the domain name is correctly configured and reachable. Implement error handling to gracefully manage resource loading failures.

Why Fix This?
Failing to load resources due to DNS issues breaks functionality and creates a negative user experience. Immediate action is needed to resolve this problem, as this could mean the website is completely broken or that important functionality is not working. Fix will also prevent related issues in the future.

Route To
DevOps/Network Engineer, Frontend Engineer

Isabella
Usability Tester

Missing Alt Text for Logo Image

Priority: 7/10 Confidence: 9/10

WCAG Accessibility

Why is this a bug?
The Mastercard logo image (tag_name: 'a', class: 'logo-img', href: 'https://www.mastercard.us/en-us.html') is missing alt text. This violates WCAG 2.0 guideline 1.1.1 (Non-text Content), which requires that all non-text content have a text alternative that serves the equivalent purpose. Absence of alt text negatively impacts users who rely on screen readers, as they will not receive information about the image. Failure to provide alt-text can also impact SEO.

Suggested Fix
Add descriptive alt text to the Mastercard logo image. For example, alt="Mastercard logo".

Why Fix This?
Improves accessibility for screen reader users, enhances SEO, and ensures compliance with WCAG guidelines.

Route To
Frontend Developer

Abdul
Privacy and Security Tester

Failed Resource Loading (Potential Vulnerable Component)

Priority: 7/10 Confidence: 7/10

OWASP

Using Components with Known Vulnerabilities

Why is this a bug?
The console log "Failed to load resource: net::ERR_NAME_NOT_RESOLVED" indicates that a resource is failing to load. This could be due to the resource no longer being available, a misconfiguration in the URL, or an issue with the DNS resolution. If the missing resource is a component or library used by the website, and it is not loading, it can lead to unpredictable behavior, security vulnerabilities if there are any fallback mechanisms that trigger vulnerabilities. It is crucial to determine the resource that is not loading and address the root cause of the failure.

Suggested Fix
Investigate the cause of the "ERR_NAME_NOT_RESOLVED" error. Verify the URL for the resource and ensure that the DNS is correctly resolving. If the resource is no longer needed, remove the reference to it from the website. If the resource is critical, investigate the availability and correct any misconfigurations.

Why Fix This?
Failing to load resources can lead to unpredictable behavior and potential security vulnerabilities. It is essential to ensure all resources are loading correctly or remove references to them if they are no longer needed.

Route To
Frontend Engineer/DevOps

Aisha
Tester for Missing Aspects

Ambiguous ARIA labels in main navigation

Priority: 7/10 Confidence: 8/10

WCAG Accessibility

Why is this a bug?
The main navigation uses ARIA labels such as "Find a card. Press the Enter key to open the page or the right arrow key to display the submenu." This phrasing is ambiguous and not fully accessible, as it doesn't clearly indicate the state and behavior of the menu items. Assistive technology users may not understand that some elements are dropdown menus.

Suggested Fix
Improve ARIA labels to be more descriptive and specific, clearly indicating if an element is a menu item, has a submenu, and the current state (e.g., expanded/collapsed). Consider using ARIA attributes like aria-expanded and aria-haspopup.

Why Fix This?
Ensures that users of assistive technologies can easily navigate and understand the website's structure, meeting WCAG guidelines for accessibility.

Route To
Frontend Engineer

Alejandro
Accessibility Tester

Skip Navigation Link Target Issue

Priority: 7/10 Confidence: 8/10

WCAG Keyboard Navigation

Skip Navigation Links

Why is this a bug?
The 'Skip to Content' link is present, but it is unclear from the provided page elements where it directs to. If the target '#content' does not exist or is not properly implemented (e.g., the target element lacks tabindex="-1" or isn't focusable), keyboard users may not be able to effectively skip the navigation and access the main content, failing WCAG 2.4.1 Bypass Blocks.

Suggested Fix
Verify that the target of the 'Skip to Content' link, identified by '#content', exists and is appropriately focusable. Add tabindex="-1" to the target element and programmatically focus it when the skip link is activated. Ensure it's a meaningful content section.

Why Fix This?
Ensuring the 'Skip to Content' link functions correctly provides a crucial navigation aid for keyboard and screen reader users, allowing them to bypass repetitive content and reach the main content efficiently. This directly addresses WCAG 2.4.1.

Route To
Front-end Engineer

AI Generated Functional Test Results

Start Page: HOME

Aiden
Demo_Tests

Search for 'Mastercard'

This test validates that the search functionality correctly retrieves relevant results when searching for a known keyword, such as 'Mastercard'.

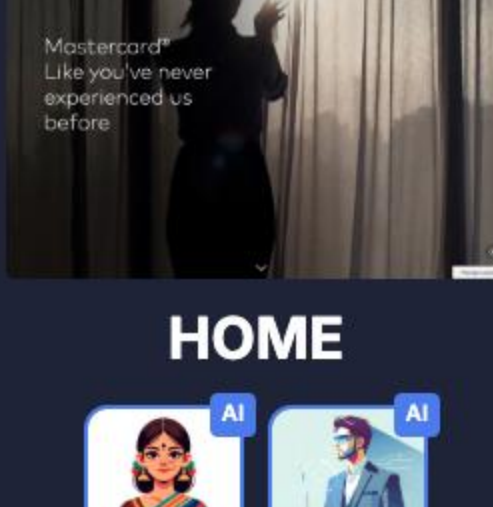
✓ Click on 'Read More' link on the first news article

This test verifies that the 'Read More' link on the first news article is clickable and navigates to the full article. This is important for users to access the full content of news articles.

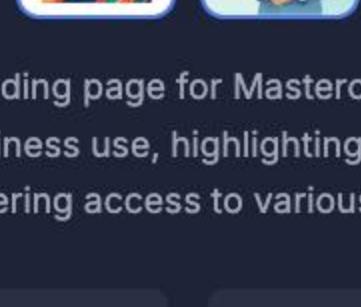
✓ Click 'Get a Card' Button

This test verifies that the 'Get a Card' button is clickable and navigates to the card application section or a relevant page. It ensures the core funnel for acquiring a card is functional.

User Persona Feedback Summary



HOME



The webpage serves as the main landing page for Mastercard, providing information about their services for both personal and business use, highlighting their commitment to innovation and social responsibility, and offering access to various resources and card options.

Overall Score	Visual Design	Usability	Content Quality
★★★★☆	★★★★☆	★★★★☆	★★★★☆
The Mastercard website offers a wealth of information and resources, but its navigation could be more intuitive. The visual design is modern and appealing, but the sheer amount of content can feel overwhelming. Improving the search functionality and providing clearer pathways to specific information would enhance the user experience.	Visually, the site looks great. The imagery is very modern and high quality.	The website is functional, but navigation could be more intuitive. A better-organized menu and improved search functionality would make it easier to find specific information.	Lots of really good resources on the site and good content, but it is not always easy to find.

Individual User Persona Feedback

Aisha Khan, 32

Persona:Aisha is a marketing manager at a tech startup. She is responsible for managing digital campaigns and analyzing marketing data. She is proficient with various software applications and social media platforms.

Overall Rating
★★★★☆

As a marketing manager, I appreciate the site's focus on cybersecurity and business solutions. The content is relevant to my needs, but I wish the navigation were more intuitive. It took me a while to find the specific information I was looking for.

Actions Performed

- Explore cybersecurity solutions
- Find a business card

Suggestions

- Implement a more robust search function.
- Create a dedicated section for business resources.
- Personalize content based on user roles and interests.

David Chen, 25

Persona:David is a recent college graduate working as a junior developer. He is passionate about new technologies and always eager to learn about the latest trends in the tech industry.

Overall Rating
★★★★☆

As a developer, I'm interested in the cybersecurity solutions and the Mastercard Developers platform. The site looks great, but it's a bit overwhelming to navigate. I wish there was a clearer path to the developer resources.

Actions Performed

- Explore cybersecurity solutions
- Learn about Mastercard Developers

Suggestions

- Create a dedicated section for developers with API documentation and tutorials.
- Provide more technical details about the cybersecurity solutions.
- Improve the search functionality to prioritize developer-related content.

Print Report