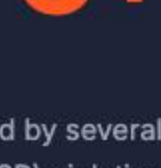


AI Test Results from testers.ai



The DuckDuckGo app's Home page quality is marred by several issues across different quality attributes. Security is a concern, evidenced by Content Security Policy (CSP) violations related to image loading, which could potentially open the door to XSS attacks. User experience suffers from accessibility issues, including low contrast on 'Learn More' links and the 'Get Privacy Pro' button, making it difficult for users with visual impairments to interact with the page. Additionally, the absence of focus indicators on interactive elements further hinders keyboard navigation. From a content perspective, core promotional content and VPN promotions are missing on mobile, impacting marketing effectiveness. A preloaded resource not being used also hints at performance inefficiencies.

Best Aspects

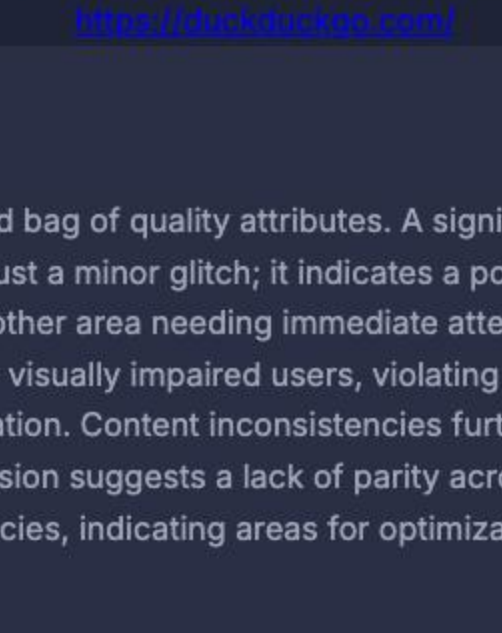
The app, in general, is well-intentioned towards privacy, which is commendable, but it has some ways to go.

Areas for Improvement

The most significant concerns are the Content Security Policy violation and the accessibility issues related to low contrast and missing focus indicators, as they impact both security and usability.

Quality Summary

HOME



Detailed Analysis

The DuckDuckGo app's Home page presents a mixed bag of quality attributes. A significant concern arises from the Content Security Policy (CSP) violation related to image loading. This is not just a minor glitch; it indicates a potential vulnerability to Cross-Site Scripting (XSS) attacks, a serious security threat. Accessibility is another area needing immediate attention. The low contrast on 'Learn More' links and the 'Get Privacy Pro' button directly impacts usability for visually impaired users, violating WCAG guidelines. The absence of focus indicators creates barriers for users relying on keyboard navigation. Content inconsistencies further detract from the overall experience; the missing core promotional and VPN content on the mobile version suggests a lack of parity across platforms. Finally, a 'Preloaded Resource Not Used' bug suggests potential performance inefficiencies, indicating areas for optimization in resource loading.

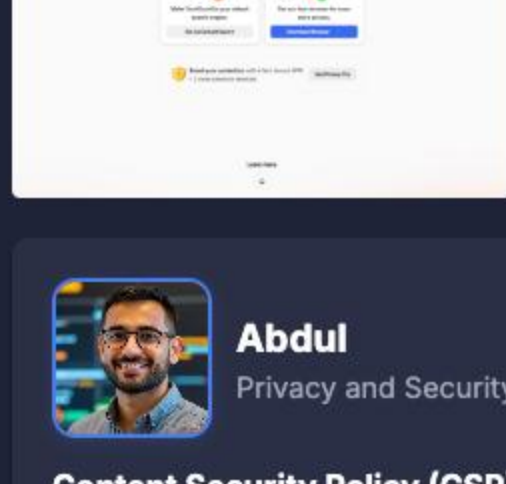
Key Suggestions

- Address the CSP violation immediately to mitigate potential XSS vulnerabilities.
- Prioritize fixing the low contrast and missing focus indicators to improve accessibility and meet WCAG guidelines.
- Ensure content parity across desktop and mobile platforms for key promotional materials.
- Investigate and resolve the 'Preloaded Resource Not Used' bug to optimize performance.

Priority Improvements

- Implement a strict Content Security Policy to prevent XSS attacks by explicitly whitelisting allowed sources for images and other resources.
- Increase the contrast ratio of 'Learn More' links and the 'Get Privacy Pro' button to meet WCAG AA standards (4.5:1 for normal text, 3:1 for large text).
- Implement visible focus indicators on all interactive elements to ensure keyboard navigation is fully functional and accessible.
- Ensure core promotional and VPN content are consistently displayed across both desktop and mobile versions of the Home page.
- Investigate why the preloaded resource is not being used and either implement its use or remove it to avoid unnecessary resource loading.

Issues Found by AI Testers



HOME

Abdul
Privacy and Security Tester

Content Security Policy (CSP) Violation - Image Loading

Priority: 7/10 Confidence: 8/10

OWASP XSS

Why is this a bug?
The console logs show multiple instances where image loading from 'checkie.ai' is blocked due to CSP directives. The img-src directive explicitly allows images from 'https://duckduckgo.com', 'https://*.duckduckgo.com', and 'https://spreadprivacy.com', but not 'checkie.ai'. This indicates a misconfiguration or overly restrictive CSP that prevents legitimate resources from loading. While the images may not be critical to functionality, the CSP should be configured to allow necessary image sources, or the images should be hosted on a domain that is already whitelisted.

Suggested Fix
Review and update the Content Security Policy to include 'checkie.ai' in the img-src directive if those images are indeed required for the site's functionality. Alternatively, host those images on the DuckDuckGo domain or one of the already whitelisted domains. Also check that the intended CSP is actually being delivered from the server as expected.

Why Fix This?
A properly configured CSP is crucial for mitigating XSS attacks. Blocking legitimate resources due to a misconfigured CSP can lead to a degraded user experience and potential functionality issues.

Route To
Security Engineer/DevOps Engineer

Alejandro
Accessibility Tester

Missing Focus Indicator on Interactive Elements

Priority: 7/10 Confidence: 7/10

WCAG Keyboard Navigation

Focus Indicators

Why is this a bug?
It's likely that some interactive elements (links, buttons) on the page lack a visible focus indicator when navigated to using the keyboard. Without a clear focus indicator, keyboard users may have difficulty determining which element is currently selected, hindering keyboard navigation.

Suggested Fix
Ensure that all interactive elements (e.g., links, buttons) have a clearly visible focus indicator (e.g., a solid border or outline) when they receive focus via keyboard navigation. The focus indicator should have sufficient contrast against the surrounding background to be easily noticeable.

Why Fix This?
Addresses WCAG 2.4.7 Focus Visible.

Route To
Frontend Engineer

Adeela
Mobile Responsive Tester

Missing Core Promotional Content on Mobile

Priority: 7/10 Confidence: 9/10

general content

Why is this a bug?
The 'Switch to DuckDuckGo. It's private and free!' message, along with the 'Set As Default Search' and 'Download Browser' prompts are completely absent on mobile. This content is central to the desktop landing page's message. The mobile screen only shows 'Protection. Privacy. Peace of Mind'.

Suggested Fix
Re-evaluate the mobile landing page content. Consider incorporating a concise version of the desktop promotion message, perhaps as a carousel or accordion, to avoid overwhelming the mobile user.

Why Fix This?
The mobile landing page loses the core value proposition of DuckDuckGo by omitting the 'private and free' message and prompts to use the default browser/extension. This can negatively impact user acquisition.

Route To
Front-end developer, UX designer

Relevant Network Call
Investigate network calls to see if the missing content is intentionally not being loaded on mobile or if it's a rendering issue.

Aieha
Tester for Missing Aspects

Low Contrast on 'Learn More' Links

Priority: 7/10 Confidence: 8/10

WCAG Accessibility Usability

Why is this a bug?
The 'Learn More' links throughout the page use a light color on a light background, resulting in a low contrast ratio. This violates WCAG guidelines for contrast and makes it difficult for users with low vision to read the links. This can significantly impact usability, especially for visually impaired users.

Suggested Fix
Increase the contrast ratio of the 'Learn More' links by using a darker text color or a darker background behind the text. Consider using a color contrast checker to ensure compliance with WCAG guidelines (at least 4.5:1 for normal text).

Why Fix This?
Improving the contrast will make the links more accessible to users with low vision, enhancing the overall usability of the page.

Route To
Front-End Engineer

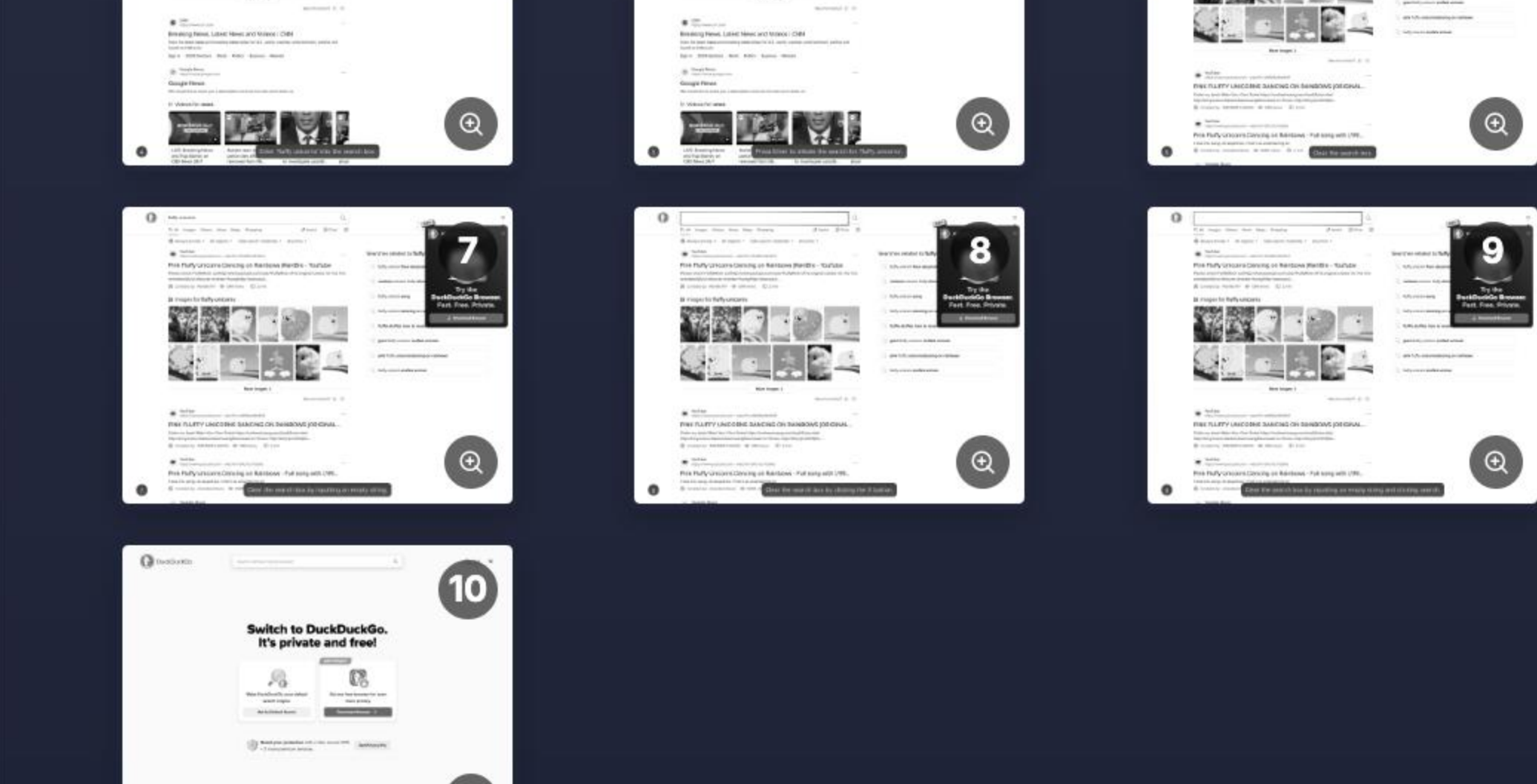
AI Generated Functional Test Results

Start Page: HOME



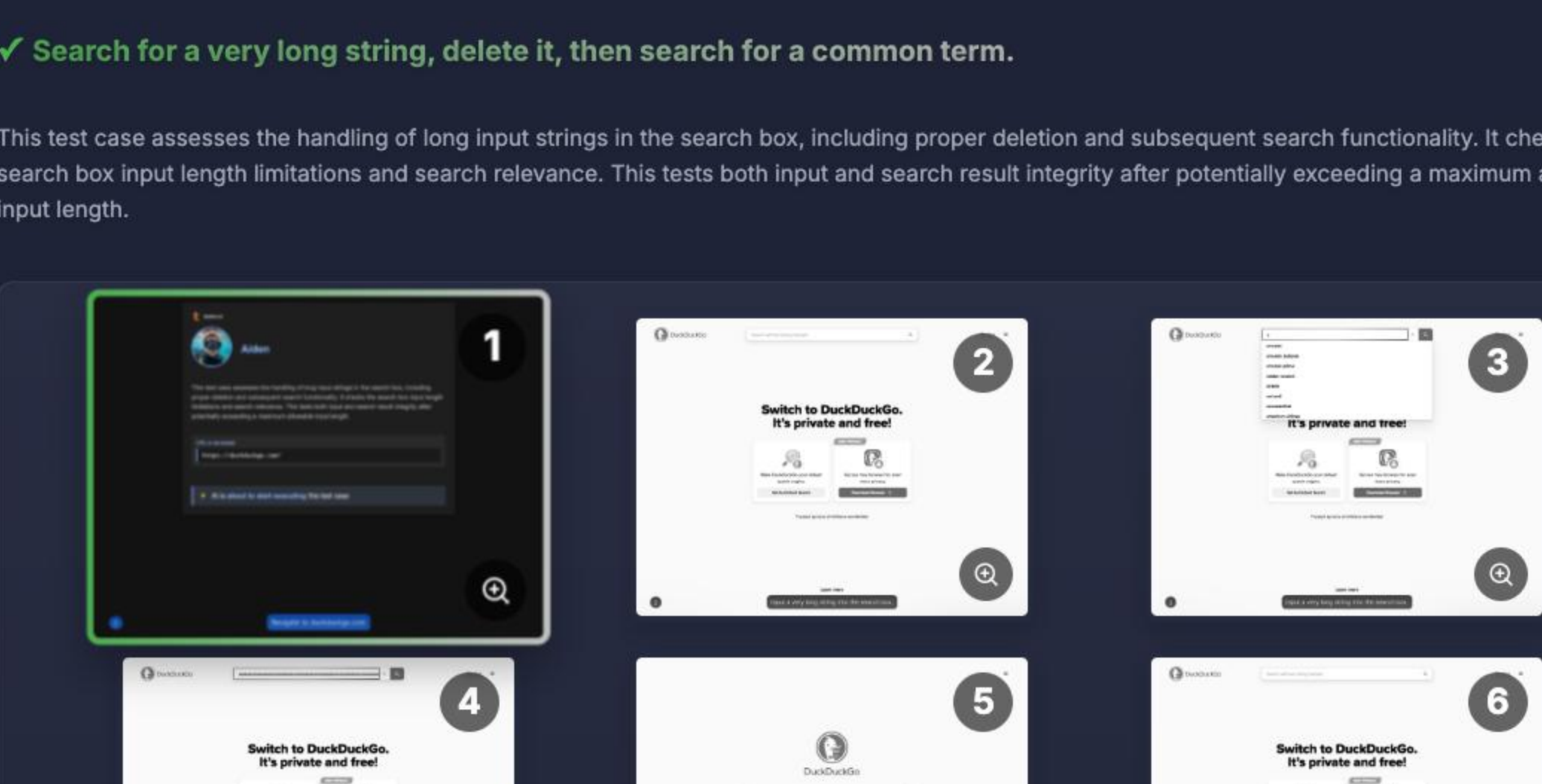
✓ Search for a term, then search for an unrelated term, then clear the search box.

This test checks if the search functionality works across multiple searches, including clearing the search box. It verifies that the search results change appropriately based on the search query and that the search box can be emptied.



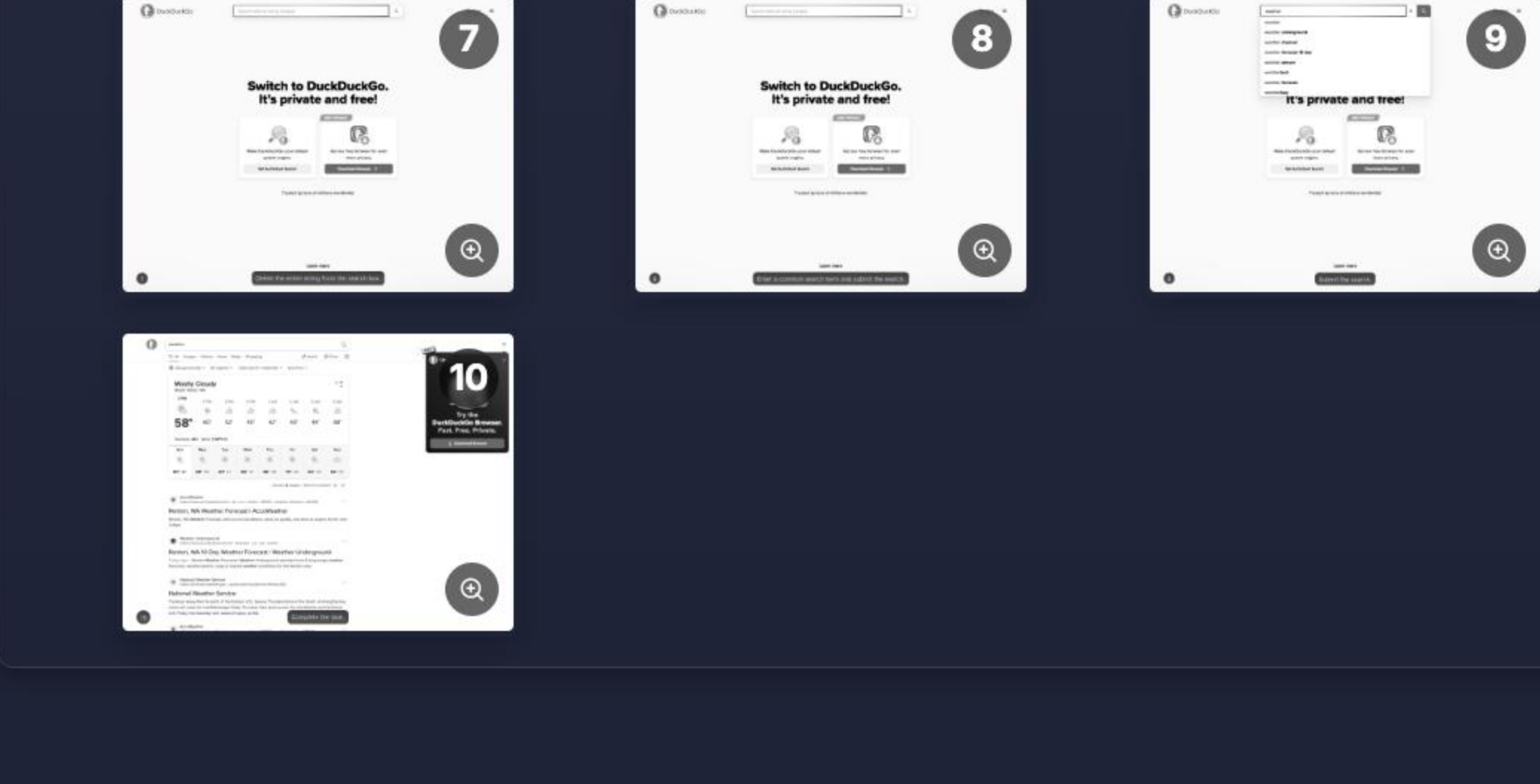
✓ Search for a very long string, delete it, then search for a common term.

This test case assesses the handling of long input strings. In this search box, including and proper deletion and subsequent search functionality. It checks the search box input length limitations and search relevance. This tests both input and search result integrity after potentially exceeding a maximum allowable input length.

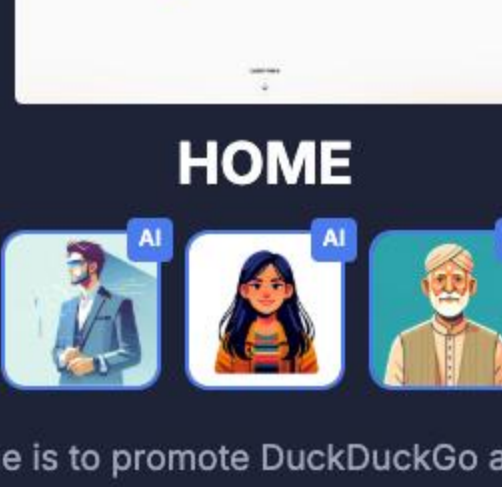


✓ Search for a string with non-latin characters and verify results

This test focuses on the search functionality's ability to handle non-Latin characters. It ensures that the search engine can correctly process and return relevant results for queries containing characters outside the standard English alphabet. This is important for supporting a global user base and diverse content.



User Persona Feedback Summary



HOME



The primary purpose of this page is to promote DuckDuckGo as a privacy-focused alternative to mainstream search engines and browsers, highlighting its features and benefits related to user data protection.

Overall Score	Visual Design	Usability	Content Quality
★★★★☆	★★★★☆	★★★★☆	★★★★☆
The website effectively communicates DuckDuckGo's commitment to privacy and offers multiple avenues for users to adopt its products. The design is clean and intuitive, making it easy for users to understand the value proposition and take action. The site could benefit from more detailed explanations of the technical aspects of privacy protection and further customization options.	The visual presentation is really appealing and conveys a sense of trust and simplicity. It's easy to see what DuckDuckGo is all about at a glance.	Navigating the site is a breeze. Everything is logically organized and easy to find. The download links are readily available, and the explanations are straightforward.	The content is informative and well-written, clearly explaining the benefits of using DuckDuckGo. It effectively addresses privacy concerns and positions DuckDuckGo as a solution.

Individual User Persona Feedback

<p>Ethan Miller, 35</p> <p>Persona: Ethan is a software developer who values privacy and security. He's concerned about data tracking and wants to protect his personal information online. He is employed at Google as a software engineer, but is not completely convinced about the company's vision.</p> <p>Overall Rating ★★★★☆</p> <p><i>As a software developer, I'm always looking for tools that prioritize privacy. DuckDuckGo's focus on tracker blocking and email protection is exactly what I need. I'd love to see more technical details about the implementation of these features.</i></p> <p>Actions Performed</p> <ul style="list-style-type: none"> Download DuckDuckGo Browser Learn about Web Tracking Protection <p>Suggestions</p> <ul style="list-style-type: none"> Add a FAQ section to address common privacy questions. Include a blog with in-depth articles about privacy. Offer a developer API for privacy-focused applications. 	<p>Samantha Rodriguez, 22</p> <p>Persona: Samantha is a college student who uses the internet for social media, research, and entertainment. She's increasingly concerned about her online privacy but doesn't have much technical knowledge.</p> <p>Overall Rating ★★★★☆</p> <p><i>I'm not a tech expert, but I'm worried about my online privacy. DuckDuckGo seems like a simple and effective way to protect my data without having to understand all the technical stuff. The email protection feature is especially appealing.</i></p> <p>Actions Performed</p> <ul style="list-style-type: none"> Download DuckDuckGo Browser Learn about Email Protection <p>Suggestions</p> <ul style="list-style-type: none"> Add a FAQ section to address common privacy questions. Include customer testimonials to build trust. Offer a privacy check-up tool to assess users' current online privacy. 	<p>Rajesh Patel, 65</p> <p>Persona: Rajesh is a retired engineer who uses the internet primarily for email, news, and online banking. He is concerned about online scams and wants to protect his personal information from being stolen. He isn't very skilled with modern phone apps.</p> <p>Overall Rating ★★★★☆</p> <p><i>As someone who isn't very tech-savvy, I appreciate the simplicity of DuckDuckGo. I'm concerned about online scams and want to make sure my personal information is protected. The search protection feature is very appealing.</i></p> <p>Actions Performed</p> <ul style="list-style-type: none"> Download DuckDuckGo Browser Learn about Search Protection <p>Suggestions</p> <ul style="list-style-type: none"> Add a FAQ section to address common security concerns. Include customer testimonials to build trust. Offer a free security check-up tool.
---	---	---

Print Report