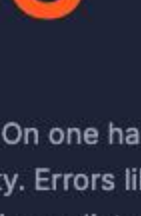


AI Test Results from testers.ai



The 'Wipro' app's HOME page presents a mixed bag. On one hand, it's concerning to see multiple resource loading failures that severely impact performance and usability. Errors like 'ERR_NAME_NOT_RESOLVED' and '404' indicate potential server-side or configuration issues needing immediate attention. Furthermore, the multitude of WCAG violations regarding missing labels, insufficient color contrast, and unclear form labeling create a frustrating experience for users with disabilities. Finally, the presence of outdated libraries and potential GDPR compliance issues concerning third-party tracking expose serious security and legal risks.

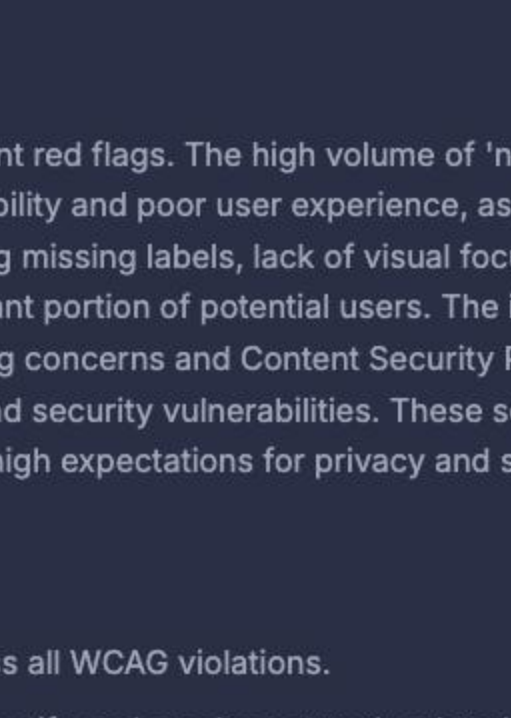
Best Aspects

The application appears to have attempted to incorporate third-party tracking, suggesting an awareness of analytics and user engagement, even if the implementation requires significant improvements.

Areas for Improvement

The app's HOME page suffers from a multitude of accessibility violations, network issues, and concerning security vulnerabilities, including the use of outdated libraries and potential GDPR violations.

Quality Summary



<https://www.wipro.com/>

Detailed Analysis

The 'Wipro' app's HOME page shows some significant red flags. The high volume of 'network' and 'performance' tagged bugs stemming from failed resource loads paints a picture of unreliability and poor user experience, as users may encounter broken pages and delayed responses. The numerous WCAG violations, including missing labels, lack of visual focus indicators, and color contrast issues, indicate a lack of attention to accessibility, alienating a significant portion of potential users. The inclusion of 'security' and 'GDPR' tagged bugs, stemming from outdated libraries, third-party tracking concerns and Content Security Policy (CSP) issues highlight not only compliance concerns but also the real threat of data breaches and security vulnerabilities. These security issues are amplified by the fact that this is likely a Productivity application, which typically has high expectations for privacy and security.

Key Suggestions

- Conduct a thorough accessibility audit and address all WCAG violations.
- Implement robust error handling and logging to identify and resolve network-related resource loading failures.
- Implement automated testing with tools like Axe and Lighthouse and OWASP ZAP to help catch accessibility and security flaws earlier in the development cycle.
- Perform a comprehensive security assessment, addressing vulnerabilities related to outdated libraries, CSP configuration, and third-party tracking.
- Establish a process for regularly updating third-party libraries to mitigate security risks.
- Educate development teams on secure coding practices and accessibility guidelines.
- Engage in real user monitoring (RUM) to gather field data to ensure the highest levels of Performance and Usability.

Priority Improvements

1. Address the 'ERR_NAME_NOT_RESOLVED' and '404' resource loading errors by investigating server configurations, DNS resolution, and resource availability.
2. Update the Font Awesome library to the latest stable version to mitigate known security vulnerabilities.
3. Implement a properly configured Content Security Policy (CSP) header to prevent cross-site scripting (XSS) attacks.
4. Rectify all WCAG violations related to missing labels, insufficient color contrast, and missing visual focus indicators, ensuring compliance with accessibility guidelines.
5. Review and revise the third-party tracking implementation (Adobe DTM and Marketo) to ensure explicit user consent is obtained before tracking begins, in compliance with GDPR.

Issues Found by AI Testers



Isabella
Usability Tester

Missing Labels for Form Elements
Priority: 8/10 Confidence: 9/10

WCAG Form Accessibility

Why is this a bug?
The form elements don't have proper labels which creates accessibility problems. Specifically, screen readers will not correctly identify these elements. This violates WCAG 2.4.6 standards for accessibility.

Suggested Fix
Add descriptive and properly associated labels to each form field using the "label" element. For complex form elements, ensure that appropriate ARIA attributes are used to provide additional context and instructions.

Why Fix This?
Providing appropriate labels enhances the accessibility and usability of forms for all users, especially those using screen readers or other assistive technologies.

Route To
Frontend Engineer

Adeela
Mobile Responsive Tester

Missing Top Navigation Menu on Mobile
Priority: 8/10 Confidence: 9/10

general accessibility

Why is this a bug?
The top navigation menu ("What We Do", "What We Think", "About Wipro", "Careers", "Contact Us", "EN") visible on the desktop version is completely absent from the mobile version. The presence of a hamburger menu indicates the navigation should be there, but the items are missing in the mobile view. This severely hinders navigation on mobile devices.

Suggested Fix
Investigate why the navigation menu items are not rendering within the hamburger menu on mobile. Ensure the media queries and JavaScript logic correctly display the menu options when the hamburger menu is activated.

Why Fix This?
The missing navigation menu makes it difficult, if not impossible, for mobile users to access key sections of the website, impacting user experience and potentially business objectives.

Route To
Front-end developer

Relevant Network Call
Check network calls to ensure the menu data is being fetched correctly.

Jason
AI Tester

Multiple Failed Resource Loads (ERR_NAME_NOT_RESOLVED)
Priority: 7/10 Confidence: 8/10

network performance usability

Why is this a bug?
The console shows multiple 'Failed to load resource: net:ERR_NAME_NOT_RESOLVED' errors. This indicates that the browser is unable to resolve the domain name of the requested resource, leading to a failure to load the resource. This could be due to DNS issues, incorrect URLs, or server downtime.

Suggested Fix
Investigate the URLs that are failing to load. Verify that the DNS settings are correct and that the servers hosting these resources are online and accessible. Implement proper error handling to gracefully handle resource loading failures and provide informative messages to the user.

Why Fix This?
Users will experience broken functionality and a degraded user experience if resources fail to load. This can lead to frustration and abandonment of the application.

Route To
Frontend Engineer, DevOps Engineer

Isabella
Usability Tester

Missing Visual Focus Indicator on Interactive Elements
Priority: 7/10 Confidence: 8/10

WCAG Keyboard Accessibility

Why is this a bug?
Interactive elements like buttons and links do not display a clear visual focus indicator when navigated to using the keyboard. This makes it difficult for keyboard users to determine which element is currently selected, hindering keyboard navigation accessibility (WCAG 2.4.7 Focus Visible).

Suggested Fix
Implement a clear and distinguishable visual focus indicator for all interactive elements, such as a high-contrast border or background color change. Ensure the focus indicator meets WCAG 2.4.7 requirements for contrast and visibility.

Why Fix This?
Focusing this is crucial for users who rely on keyboard navigation, including those with motor impairments and screen reader users.

Route To
Frontend Engineer

Jason
AI Tester

Potential Exposure of Analytics Data
Priority: 5/10 Confidence: 6/10

security privacy

Why is this a bug?
The console log includes the line "Send Beacon" Rule: analyticsData [id, {pageInfo: Object, ArticleInfo: Object, GatedInfo: Object, form: Object, SearchInfo: Object}]. This suggests that analytics data is being logged to the console. While it might be for debugging, it poses a potential security risk if sensitive user information is included in the logged data, especially in a production environment. The fact that form data is being logged is very concerning.

Suggested Fix
Review the code responsible for logging analytics data. Ensure that no sensitive user information (e.g., PII, passwords, API keys) is being logged to the console, especially in production environments. Consider using more secure logging mechanisms or redacting sensitive data before logging.

Why Fix This?
Exposure of sensitive data can lead to security breaches and privacy violations, resulting in legal and reputational damage.

Route To
Security Engineer, Frontend Engineer

Sharon
API and Networking Tester

Outdated Font Awesome Library
Priority: 7/10 Confidence: 8/10

security dependency

Why is this a bug?
The network traffic shows the webpage is loading Font Awesome 4.7.0 frommaxcdn.bootstrapcdn.com. Font Awesome 4.7.0 is a very old version of the library. Using outdated libraries can introduce security vulnerabilities, compatibility issues with modern browsers, and prevent the site from leveraging newer features and performance improvements in later versions. There have been many updates to Font Awesome since 4.7.0, addressing security concerns and adding new features. Using an outdated version exposes the site to known vulnerabilities.

Suggested Fix
Update Font Awesome to the latest stable version (e.g., Font Awesome 6 or 7). This might involve updating the CSS and potentially some HTML to align with the newer version's class names and structure. Consider using a package manager (npm, yarn) to manage the Font Awesome dependency for easier updates.

Why Fix This?
Updating to a newer version addresses security vulnerabilities, ensures compatibility with modern browsers, and allows the website to leverage the latest features and performance improvements of the library. This will improve the overall security and user experience of the site.

Route To
Frontend Engineer

Relevant Network Call
<https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css>

Jason
AI Tester

Failed Resource Load (404)
Priority: 7/10 Confidence: 8/10

network content

Why is this a bug?
The console shows 'Failed to load resource: the server responded with a status of 404 ()'. This indicates that the requested resource was not found on the server. This is a definite error.

Suggested Fix
Verify that the URL for the resource is correct and that the resource exists on the server. Check for any broken links or incorrect file paths in the application code. If the resource is intentionally removed, update the application to reflect the change.

Why Fix This?
Users will experience broken functionality or missing content if a resource returns a 404 error. This leads to a bad user experience.

Route To
Frontend Engineer, Backend Engineer, Content Manager

Abdul
Privacy and Security Tester

Missing or Misconfigured Content Security Policy (CSP) Header
Priority: 7/10 Confidence: 8/10

OWASP General Security Issues

Why is this a bug?
The absence or misconfiguration of a Content Security Policy header allows the browser to load resources from any origin, which increases the risk of XSS attacks. An attacker can inject malicious scripts that the browser will execute because there are no restrictions on the sources from which the scripts can originate. The presence of javascript libraries from multiple CDNs does not guarantee that a CSP is in place to properly restrict it.

Suggested Fix
Implement a strict Content Security Policy (CSP) header on all pages. The CSP should explicitly define the allowed sources for various types of resources (scripts, styles, images, etc.). Consider using a 'nonce' or 'hash' based approach for inline scripts to further mitigate XSS risks.

Why Fix This?
Mitigating XSS vulnerabilities prevents attackers from injecting malicious scripts into the website, which can lead to session hijacking, data theft, and defacement of the website. Implementing a proper CSP is a crucial step in securing web applications.

Route To
Security Engineer/Frontend Engineer

Relevant Network Call
<https://www.wipro.com/>

Alejandro
Accessibility Tester

Missing Language Attribute
Priority: 7/10 Confidence: 8/10

WCAG Language Specification

Why is this a bug?
The '<html>' tag does not have a 'lang' attribute specified. This is crucial for screen readers to properly interpret the language of the page and pronounce text correctly. Without this, users relying on screen readers may experience difficulties in understanding the content.

Suggested Fix
Add a 'lang' attribute to the '<html>' tag, specifying the primary language of the page (e.g., '<html lang="en">').

Why Fix This?
Ensures proper screen reader support for text pronunciation and content interpretation, improving accessibility for visually impaired users.

Route To
Frontend Engineer

AI Generated Functional Test Results

Start Page: HOME

Alden
Demo_Tests

Submit form with valid data

This test verifies that the form submission is successful when all fields are filled with valid data. It ensures that the form data is properly processed and stored (simulated success).

✓ Click 'Learn More', then a 'Read More' and back to the home page

This test verifies the navigation flow from the home page to another page via 'Learn More', then to a 'Read More' link on that page and back. It is testing the navigation between different sections of the website. A failure in this test would indicate problems with site navigation or broken links, significantly impacting the user experience.

Search, then Delete the Term

This test validates the search functionality by entering a search term and then deleting it from the search bar to see how the search reacts. The expectation is that the search results will reset to the default state or to a previous state.

User Persona Feedback Summary



HOME

The website aims to showcase Wipro's capabilities, services, and thought leadership in various technology and business domains, with a particular focus on Agentic AI and digital transformation.

Overall Score	Visual Design	Usability	Content Quality
★★★★☆	★★★★☆	★★★★☆	★★★★☆
The website effectively presents Wipro's services and thought leadership, but improvements can be made in user experience and content tailoring to better cater to specific user needs and interests.	The visuals are modern and clean, but they could be more engaging and tell a better story about Wipro's impact.	While the navigation is present, it could be more intuitive. The site has a lot of content that could be better organized for different user needs.	The content is informative and showcases Wipro's expertise, but it can be dense and overwhelming. It could be more tailored to different user interests and roles.

Individual User Persona Feedback

Priya Sharma, 35

Persona: Priya is a Senior Manager at a global financial services firm. She's responsible for evaluating technology solutions and vendors.

Overall Rating
★★★★☆

As a senior manager, I found the website informative but could use a more streamlined experience to quickly find relevant case studies and solutions. Content specifically for the financial services industry would be great.

Actions Performed

- Review case studies related to financial services.
- Download white papers on Agentic AI.

Suggestions

- Offer personalized content recommendations based on industry and role.
- Incorporate interactive demos of key solutions.
- Provide clear and concise comparisons to competitors.
- Add more visual appeal.

Kenji Tanaka, 48

Persona: Kenji is the CIO of a multinational manufacturing company. He is responsible for the company's IT strategy and digital transformation initiatives.

Overall Rating
★★★★☆

As a CIO, I'm looking for strategic insights and proven solutions to address complex business challenges. The website provides valuable information, but it could be more concise and focused on key outcomes.

Actions Performed

- Read articles on supply chain disruptions.
- Explore Wipro's sustainability initiatives.

Suggestions

- Personalize content based on user role and industry.
- Incorporate interactive tools to help users evaluate solutions.
- Highlight Wipro's unique differentiators and value proposition.

Print Report