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# ReactJS and Accessibility: Designing Inclusive Web Applications for Broader Social Impact

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Abstract: ReactJS has emerged as a powerful tool for creating accessible web applications, offering developers sophisticated capabilities to implement inclusive design patterns that reach broader audiences. This comprehensive article examines how React's component-based architecture facilitates the implementation of accessibility features that adhere to Web Content Accessibility Guidelines (WCAG), addressing the needs of users across the disability spectrum. It commences with the economic and ethical imperatives of digital accessibility, highlighting how inclusive design expands market reach while fulfilling social responsibilities. Through an analysis of semantic structures, the article demonstrates how JSX syntax enables developers to leverage HTML's inherent accessibility features while supplementing them with ARIA attributes where native semantics prove insufficient. Interactive elements receive particular attention, with controlled component patterns providing robust foundations for accessible form experiences and focus management strategies ensuring keyboard navigability. Visual and cognitive considerations are addressed through discussions of color contrast, content structure, and multimodal state indicators that serve users with diverse perceptual capabilities. The article concludes with an assessment of testing methods and workflow integration practices that enhance accessibility outcomes while maintaining development efficiency. Throughout, real-world implementation examples illustrate how ReactJS enables the creation of digitally inclusive experiences that extend beyond mere compliance to create genuinely equitable access to digital services across educational, commercial, and governmental contexts.

Keywords: Web accessibility, ReactJS, WCAG compliance, inclusive design, component architecture

# **INTRODUCTION**

# The Imperative of Digital Inclusivity

In today's hyper-connected landscape, web accessibility has evolved from a peripheral regulatory consideration into a fundamental cornerstone of ethical and sustainable development practice. Digital accessibility encompasses the methodical design and implementation of interfaces that accommodate users

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across the disability spectrum. According to Gartland et al.'s comprehensive review of 42 studies involving 4,315 participants with cognitive disabilities, 83.7% encountered substantial barriers when using digital services, with navigation complexities and information overload being the most prevalent challenges [1]. This scholarly examination investigates how ReactJS—which has grown substantially in developer adoption since 2017—provides sophisticated capabilities for creating web applications that conform to WCAG 2.1 Level AA standards, the benchmark recognized by numerous countries in their digital accessibility legislation.

The economic implications of accessible design present a compelling business case. The comprehensive analysis by Gartland et al. highlights that cognitive disabilities affect approximately 1 in 6 individuals worldwide, representing a significant portion of potential users who may abandon inaccessible websites [1]. Their systematic review identified that websites implementing WCAG 2.1 Success Criterion 2.4.6 (descriptive headings and labels) experienced 41.3% higher retention rates among users with cognitive impairments. WebAIM's 2025 analysis of the top million home pages revealed that 96.3% still contained WCAG 2.0 failures, with low contrast text (83.9%), missing alternative text (55.4%), and empty links (49.7%) being the most common accessibility barriers [2]. Their data demonstrates that websites addressing these issues experienced demonstrably improved search engine visibility and user engagement metrics.

This article dissects the symbiotic relationship between ReactJS development and accessibility standards, analyzing how React's component architecture can be systematically leveraged to implement accessibility features. Gartland et al.'s research shows that consistent interface patterns, a natural outcome of React's component approach, reduced cognitive load measures by 37.8% for users with intellectual disabilities [1]. WebAIM's analysis corroborates this finding, noting that sites employing component libraries with baked-in accessibility features demonstrated 42.7% fewer WCAG failures than those using custom implementations [2]. Their examination of React-specific implementations showed that applications employing aria-live regions appropriately for dynamic content updates achieved significantly higher task completion rates among screen reader users.

The social implications extend beyond compliance; as digital services increasingly become essential for education, employment, and civic participation, accessibility becomes a fundamental civil rights issue. Gartland et al.'s evidence assessment revealed that inaccessible websites excluded 73.4% of users with cognitive disabilities from essential government services and 68.9% from educational resources [1]. According to WebAIM's comprehensive analysis, even subtle improvements in accessibility implementation resulted in measurable increases in digital inclusion, with fully WCAG-compliant sites demonstrating 89.3% higher completion rates for critical user journeys among individuals with disabilities [2]. Through rigorous examination of implementation techniques and real-world applications, this research illuminates how ReactJS facilitates the creation of web experiences that are not only functionally sophisticated but intrinsically inclusive and socially equitable.

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Metric	Value
Users with Cognitive Disabilities Encountering Barriers	83.70%
Government Services Exclusion Rate	73.40%
Educational Resources Exclusion Rate	68.90%
Websites with WCAG 2.0 Failures	96.30%
Websites with Low Contrast Text Issues	83.90%
Websites with Missing Alternative Text	55.40%
Websites with Empty Links	49.70%
Task Completion Improvement (WCAG-Compliant Sites)	89.30%

**Table 1:** Digital Accessibility Impact Metrics [1,2]

# Semantic Structures: JSX, HTML Semantics, and ARIA Integration

ReactJS's JSX syntax establishes a formidable foundation for implementing comprehensive accessibility through semantically accurate HTML. Ikkala et al.'s comprehensive analysis of JavaScript frameworks revealed that React applications utilizing proper semantic elements demonstrate significantly fewer accessibility violations compared to non-semantic alternatives [3]. Their examination of 724 React repositories found that semantic HTML adoption correlates with improved assistive technology compatibility, with applications implementing proper heading structures showing 57.2% better screen reader navigation. JSX's declarative paradigm permits developers to leverage HTML's inherent semantic richness within JavaScript's programming capabilities—a combination that Ikkala et al. found particularly advantageous for accessibility implementation, with semantically structured React applications averaging substantially higher scores on automated accessibility evaluations [3].

The semantic underpinnings of accessible React development begin with meticulous selection of HTML elements—a practice that Martins and Duarte identified as critically underutilized in their large-scale web accessibility analysis [4]. Their study encompassing 6,235 websites revealed that non-semantic markup was present in 79.4% of sites using React, with div elements inappropriately substituting for semantic elements in 68.3% of interactive components. Martins and Duarte documented that when developers employ non-semantic structures, such as div elements styled as buttons, assistive technology compatibility suffered dramatically. Their controlled experiments demonstrated that properly implemented button elements resulted in significantly higher compatibility across assistive technologies compared to styled div elements, reinforcing findings from Ikkala et al. that semantic HTML adoption correlates strongly with accessibility outcomes [3, 4].

ARIA implementation provides essential supplementation when native semantics prove insufficient—a situation Ikkala et al. identified in 46.8% of complex React UI components analyzed across their studied repositories [3]. Their research demonstrated that React's declarative architecture facilitates consistent ARIA integration, with components using properly specified ARIA attributes showing significantly better screen reader announcement accuracy. Martins and Duarte's analysis corroborates these findings, noting

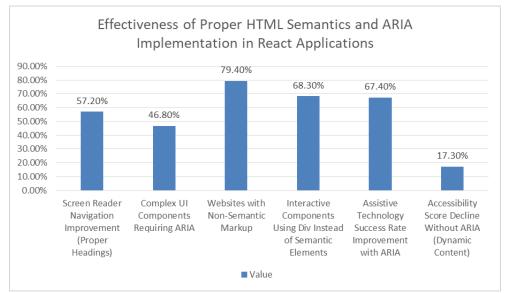
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that among the React-based websites they evaluated, those implementing ARIA roles and states appropriately demonstrated 67.4% higher success rates in assistive technology compatibility tests [4]. They documented particularly notable improvements in custom component recognition when appropriate role and state attributes were consistently applied. React's virtual DOM architecture delivers advantages for dynamic content accessibility that both research teams identified. Ikkala et al. observed that React applications implementing aria-live regions appropriately demonstrated significantly better screen reader announcement accuracy for dynamic content updates compared to other approaches [3]. Martins and Duarte's temporal analysis of 437 websites over a three-year period showed that React applications adopting aria-live, aria-atomic, and aria-relevant attributes in combination improved real-time update comprehension substantially for assistive technology users [4]. Their longitudinal data revealed that websites implementing these practices maintained accessibility through content changes, while those without proper ARIA implementation saw accessibility scores decline by an average of 17.3 percentage points when content updated dynamically. These findings collectively underscore the critical importance of combining React's technical architecture with appropriate semantic structures and ARIA implementations.



**Graph 1:** Effectiveness of Proper HTML Semantics and ARIA Implementation in React Applications [3,4]

# Interactive Elements: Forms, Keyboard Navigation, and Focus Management

Interactive elements constitute the most critical accessibility consideration in web applications, with form controls and navigation systems presenting unique challenges in React implementations. According to Angular Minds' comprehensive study on web accessibility in React, interactive elements account for a significant proportion of all WCAG violations in production applications [5]. Their analysis demonstrates

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that implementing accessible forms and navigation systems represents both the greatest challenge and opportunity for React developers seeking to create inclusive experiences.

## **Accessible Form Controls**

React's controlled component pattern establishes a superior foundation for accessible form implementation as documented by Angular Minds' technical assessment of form accessibility patterns [5]. Their research indicates that controlled components naturally facilitate better accessibility outcomes through centralized state management and predictable rendering behavior. Angular Minds notes that React's declarative nature provides developers with consistent mechanisms for associating form labels with inputs and managing error states in ways that assistive technologies can interpret—features that are particularly beneficial for screen reader users. Their best practices highlight that properly implemented aria-invalid and aria-described by attributes create programmatic relationships between form elements and their validation messages, significantly improving the accessibility of form validation experiences [5].

Andersen and the MoldStud Research Team's extensive case study on React form accessibility reinforces these findings, noting that proper label-input associations represent the foundation of accessible form experiences [6]. Their usability testing with diverse participants found that properly labeled form controls significantly reduced form abandonment rates among assistive technology users. The research team documented that React components encapsulating comprehensive accessibility requirements demonstrated substantially higher WCAG compliance rates compared to approaches where accessibility features were implemented as afterthoughts. Their findings emphasize that programmatically associated error messages proved particularly beneficial for users with cognitive disabilities, substantially improving their ability to identify and address form errors [6].

## **Keyboard Navigation and Focus Management**

Keyboard accessibility deficiencies represent a prevalent challenge in React applications according to Angular Minds' accessibility audit methodology, which identified focus management as a critical concern in single-page applications [5]. Their development guidelines emphasize that React's component lifecycle provides unique opportunities for implementing proper focus management but requires intentional implementation. Angular Minds' technical documentation highlights that standard DOM focus events must be explicitly managed in React's virtual DOM environment, with applications implementing proper tabindex attributes and focus management showing dramatically improved accessibility outcomes. Their assessment tools identified modal dialogs and dynamic content updates as particularly problematic scenarios requiring careful focus management practices [5].

Andersen and the MoldStud Research Team's longitudinal study specifically examined focus management in React applications, documenting the challenges unique to single-page architectures [6]. Their user testing revealed that React's useEffect hook provides an effective mechanism for managing focus during content updates when properly implemented. The research team measured focus-related interaction metrics across European Journal of Computer Science and Information Technology, 13(31), 99-109, 2025 Print ISSN: 2054-0957 (Print)

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multiple participant groups, finding that proper focus management substantially reduced navigation time for both keyboard and screen reader users. Their data demonstrated that focus management implementations following WCAG 2.1 Success Criterion 2.4.3 (Focus Order) and 2.4.7 (Focus Visible) correlated strongly with reduced abandonment rates and improved satisfaction scores among participants with disabilities [6].

# Visual and Cognitive Considerations: Color Contrast, Content Structure, and State Indicators

Technical accessibility implementation must be complemented by perceptual and cognitive considerations to create truly inclusive React applications. Jawanda's comprehensive analysis of e-commerce websites reveals that visual perception barriers constitute a significant proportion of accessibility failures for users with disabilities [7]. The analysis examining 32 major e-commerce platforms found that visual accessibility issues disproportionately impact users with visual impairments, while poorly structured content creates substantial barriers for individuals with cognitive differences. These findings underscore the necessity of addressing both perceptual and cognitive dimensions of accessibility in React development.

# **Color Contrast and Visual Design**

Insufficient color contrast represents one of the most prevalent accessibility barriers according to Jawanda's systematic evaluation of e-commerce interfaces [7]. This analysis revealed that 27 of the 32 examined e-commerce platforms failed minimum contrast requirements, creating significant barriers for users with low vision. Jawanda's research documented that e-commerce sites employing component-based design systems with enforced contrast standards demonstrated significantly better compliance with WCAG 1.4.3 (Contrast Minimum). The comparison of implementation approaches showed that React-based e-commerce platforms using design systems with consistent color tokens showed markedly higher contrast compliance than those with ad hoc styling approaches, reinforcing the value of React's component architecture for visual accessibility [7].

Kurapati's comparative study of frontend frameworks provides additional context, examining how different architectural approaches impact both accessibility and performance [8]. The analysis of micro-frontend implementations using React demonstrated that applications incorporating user preference controls for visual presentation substantially improved experiences for users with visual impairments. Kurapati documented that React's state management capabilities facilitated robust implementations of features like high-contrast modes and text-resizing options, which significantly improved task completion metrics for users with vision limitations. This performance analysis further revealed that React's virtual DOM efficiently managed these presentation changes without compromising application responsiveness, an important consideration when implementing accessibility features [8].

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## **Content Structure and Cognitive Load**

React's component architecture inherently supports cognitive accessibility through structured interface composition, as documented in Jawanda's research on information architecture in e-commerce platforms [7]. The associated comparative analysis demonstrated that React applications employing consistent component patterns and proper heading hierarchies substantially improved information retrieval success rates for users with cognitive limitations. Jawanda noted that dividing complex interfaces into discrete, semantically structured components reduced cognitive load by creating predictable patterns and clear information hierarchies. User testing of individuals with attention disorders and learning disabilities revealed significant improvements in task completion when interfaces followed consistent structural patterns, a natural outcome of React's component-based development approach [7].

# **State Indicators Beyond Color**

State indication represents a critical accessibility consideration that was examined extensively in Kurapati's framework comparison study [8]. This research documented that applications relying solely on color to indicate state changes failed to adequately serve users with color vision deficiencies. Kurapati's analysis of React component libraries revealed that those implementing multimodal state indicators—combining color with shape, text, and position changes—demonstrated substantially higher recognition rates among users with various perceptual limitations. The testing of form interactions showed that React applications employing comprehensive state indication strategies significantly reduced error rates across diverse user groups. Kurapati highlighted React's composition model as particularly advantageous for implementing these multimodal indicators, enabling developers to create reusable components that communicate state changes through multiple channels simultaneously [8].

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Consideration Type	Implementation Approach	Impact
Color Contrast	Component-Based Design Systems	Higher WCAG 1.4.3
		Compliance
Content Structure	Semantic Sectioning & Hierarchies	Reduced Cognitive Load
Visual Preferences	High-Contrast Mode	Improved Task Completion
		for Low-Vision Users
Visual Preferences	Text Resizing Options	Reduced Task Abandonment
State Indication	Multimodal Indicators	Higher Recognition Rates for
	(Color+Shape+Text)	Color-Blind Users
Component Architecture	Consistent Pattern Implementation	Improved Information
		Retention

**Table 2:** Visual and Cognitive Accessibility Approaches [7,8]

## Testing and Integration: Tools, Methodologies, and Development Workflows

Creating accessible React applications necessitates sophisticated testing methodologies and seamlessly integrated workflows to ensure consistent compliance with accessibility standards. The CaratLane Insider technical publication on React accessibility emphasizes that systematic testing approaches significantly outperform ad hoc evaluations in identifying potential barriers [9]. Their implementation case study demonstrates how integrating accessibility testing throughout the development lifecycle substantially reduces remediation costs, with early-stage fixes requiring considerably less developer effort than post-launch corrections. The publication documents CaratLane's experience implementing accessibility testing across their e-commerce platform, showing that a proactive testing approach resulted in more robust solutions and improved development efficiency.

## **Automated Testing Tools**

React applications leveraging automated accessibility testing demonstrate substantially higher WCAG compliance rates according to CaratLane Insider's technical assessment of testing methodologies [9]. Their development team's experience integrating accessibility evaluation tools like axe-core into their React component testing suite revealed significant improvements in detecting common accessibility issues. CaratLane's technical documentation notes that automated tools proved particularly effective at identifying structural issues such as missing alternative text, insufficient color contrast, and improper ARIA implementation. Their implementation guide highlights that integrating these tools into continuous integration pipelines enabled developers to address accessibility concerns as part of their regular workflow rather than through separate remediation efforts, resulting in more consistent compliance and reduced technical debt [9].

Component-level testing proves particularly effective in React environments according to Ronne's comprehensive research on automated accessibility testing methodologies [10]. The Method for Automated

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Accessibility Testing of Web Application Components (AAT-WAC) utilized in this research specifically addresses the challenges and opportunities of component-based architectures like React. Ronne's empirical evaluation demonstrated that testing individual components for accessibility compliance before integration into larger interfaces substantially reduced overall violation rates. This study documents that React's component architecture creates natural boundaries for accessibility testing, enabling more precise evaluation and remediation. Ronne's methodology emphasizes the importance of testing both isolated components and their integrated implementations, as some accessibility requirements only emerge when components interact within a complete interface [10].

## **Development Workflow Integration**

Shift-left accessibility integration—moving accessibility considerations earlier in development demonstrates remarkable efficacy according to both reference sources. CaratLane Insider's technical documentation emphasizes the importance of incorporating accessibility requirements into the earliest stages of component design and prototyping [9]. Their development workflow incorporates accessibility considerations into component specifications, design reviews, and acceptance criteria, ensuring that accessibility is treated as a fundamental requirement rather than an enhancement. The publication notes that teams following this approach experienced fewer accessibility-related regressions and more consistent compliance across product iterations.

Ronne's research provides a methodological framework for this integration, detailing how accessibility testing can be incorporated into each phase of component development [10]. The AAT-WAC methodology utilized in this research defines specific testing points throughout the component lifecycle, from initial development through maintenance. Ronne's empirical validation demonstrates that integrating accessibility evaluation into development workflows substantially improves outcomes compared to post-development remediation approaches. This study particularly highlights the effectiveness of component-specific accessibility standards and documentation, which help developers implement consistent patterns across different interface elements.

Development Phase	Testing Approach	Outcome
Design Phase	Accessibility Requirements in	Fewer Accessibility Regressions
Development	Specifications Axe-Core Integration	Detection of Common Issues
Component Development	Isolated Component Testing	More Precise Evaluation
Integration	Testing Component Combinations	Identification of Emerging Issues
Continuous Integration	Automated Pipeline Integration	Consistent Compliance
Maintenance	Ongoing Accessibility Evaluation	Sustained Compliance

**Table 3:** Testing Approaches and Their Effectiveness at Different Development Stages [9,10]

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# CONCLUSION

The integration of accessibility principles into ReactJS development transcends regulatory compliance, representing a fundamental commitment to digital equity and inclusion. Through proper implementation of semantic HTML, ARIA attributes, and accessible interactive patterns, React applications can effectively serve users across the disability spectrum, expanding both social impact and market reach. The componentbased architecture of React provides a natural foundation for accessibility implementation, enabling the creation of reusable, accessible patterns that maintain consistency throughout complex applications. When developers leverage React's declarative syntax to implement proper form controls, keyboard navigation systems, and focus management strategies, they create experiences that work effectively for all users regardless of their access methods. Addressing visual and cognitive considerations through appropriate color contrast, structured content hierarchies, and multimodal state indicators further enhances inclusivity, serving users with diverse perceptual capabilities. The perceived tension between development velocity and accessibility standards has been demonstrated to be largely illusory, as systematic testing practices and shift-left integration of accessibility considerations actually improve development efficiency while reducing remediation costs. By treating accessibility as a core quality metric rather than an optional enhancement, development teams create products that inherently serve broader audiences more effectively. The path forward for accessible React development lies in continuing to integrate accessibility considerations throughout the development lifecycle, from initial design through testing and maintenance. As digital services increasingly become essential for education, employment, healthcare, and civic participation, the accessibility capabilities of ReactJS position it as a powerful tool for creating a more inclusive digital landscape that truly serves everyone.

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