



CASE STUDY

IMPLEMENTING CYPRESS FOR WEB APPLICATION QA



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BACKGROUND

- A leading e-commerce company sought to enhance their web application's quality assurance processes.



OBJECTIVES

- Implement Cypress to perform comprehensive testing, including:-
 1. End-to-End testing
 2. Functional testing
 3. Accessibility testing
 4. Compatibility testing (desktop and mobile)



IMPLEMENTATION

End-to-End Testing

Used Cypress to automate user journey tests from login to checkout, ensuring all transactions executed as expected.

Functional Testing

Automated tests for all critical functions, such as product search, filtering, and user profile updates.

Accessibility Testing

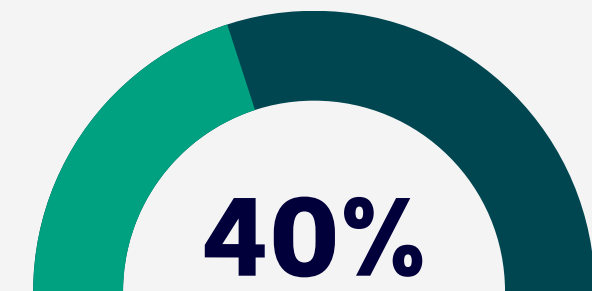
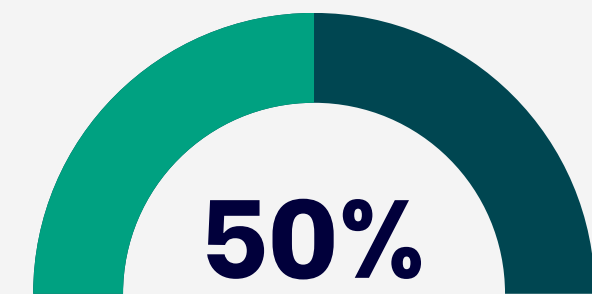
Integrated cypress-axe for accessibility checks to ensure the website adhered to WCAG standards.

Compatibility Testing

Leveraged Cypress to test the application across multiple browsers and screen resolutions can add, different devices like desktop and mobile

OUTCOMES

- Improved test execution speed by 50%, reducing overall testing cycles.
- Enhanced detection of functional bugs by 40%, leading to a more robust application.
- Accessibility compliance helped broaden the user base to include people with disabilities.
- Ensured consistent user experience across various browsers and devices.



BENEFITS

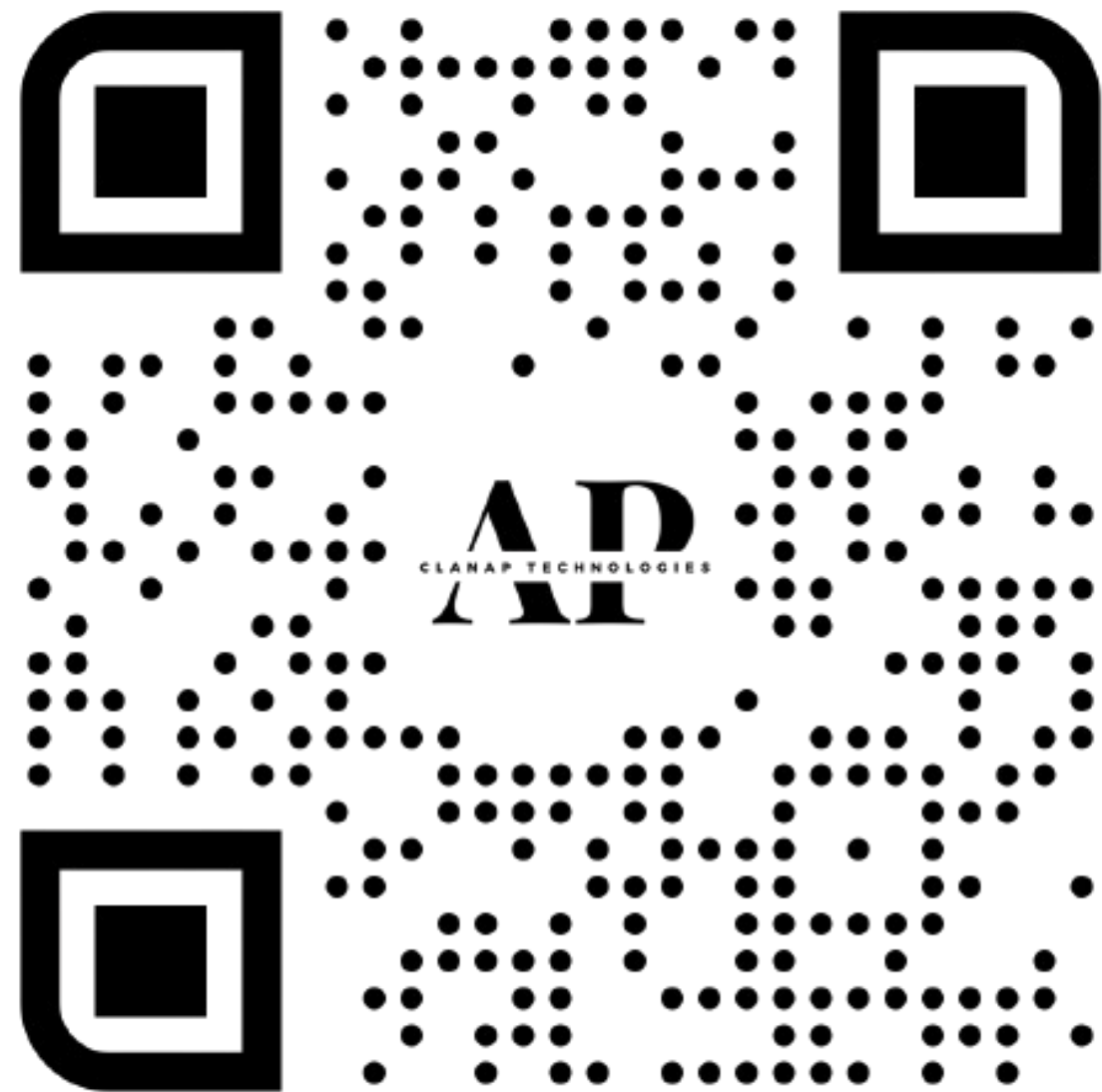
- The integration of Cypress has significantly enhanced our QA processes, offering multiple benefits:
 1. **Faster Releases:** Accelerates the deployment cycle, enabling quicker product updates.
 2. **High Quality:** Maintains rigorous quality standards, ensuring robust application performance.
 3. **Enhanced User Satisfaction:** Improves the end-user experience, leading to increased satisfaction.
 4. **Consistent Testing:** Provides reliable and consistent testing results, reducing the incidence of bugs in production.
 5. **Scalability:** Easily scales to accommodate complex applications and testing scenarios.

CONCLUSION

- The adoption of Cypress transformed the QA process, enabling faster releases while maintaining high quality and user satisfaction.



Thank You



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