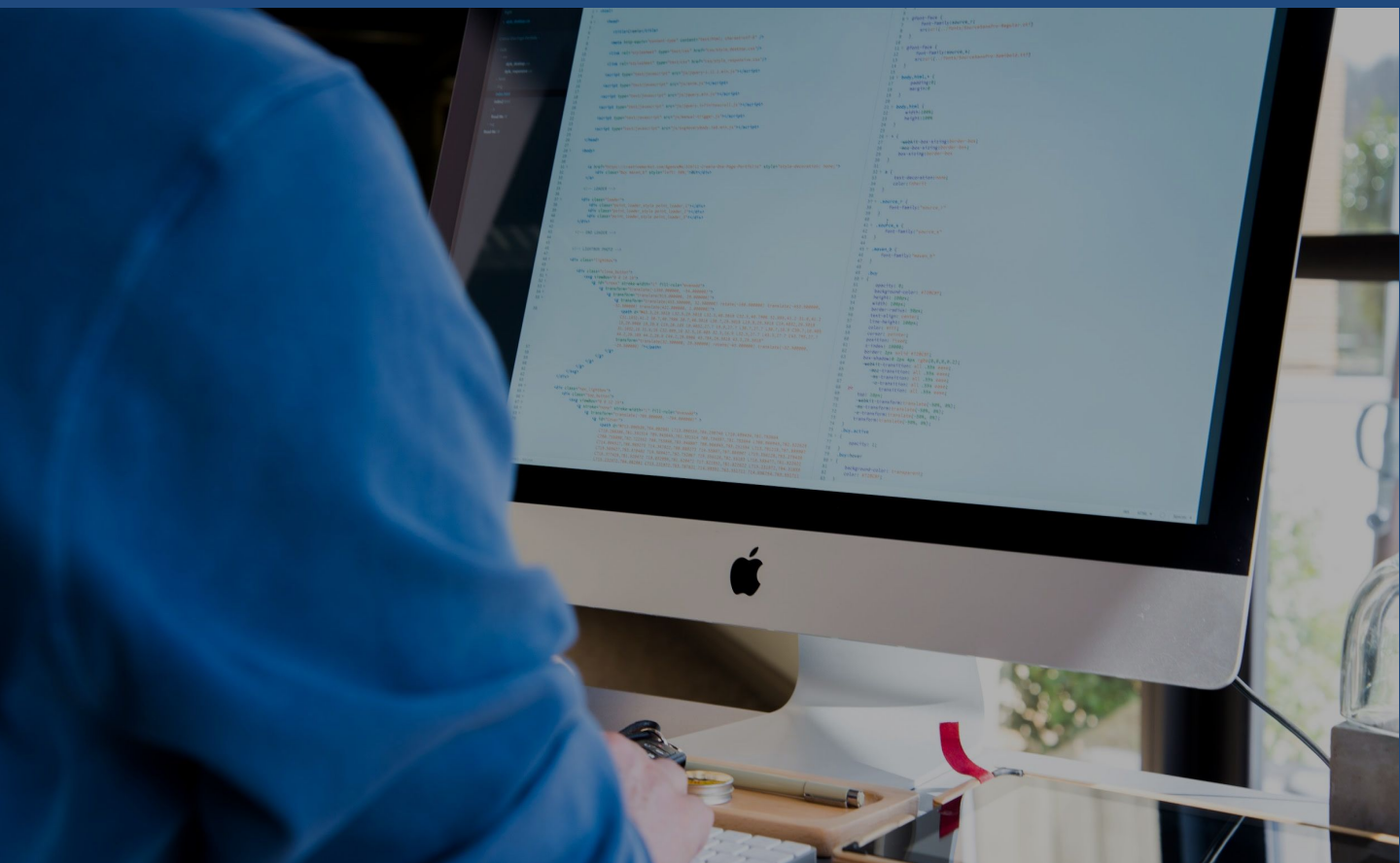# Enhancing Quality Assurance at Garbarino

Garbarino

Overview

Garbarino was one of Argentina's leading retail chains, specializing in electronics and home appliances. With over 200 stores nationwide and a robust e-commerce platform, ensuring a seamless shopping experience for customers was critical. However, without a dedicated Quality Assurance (QA) department, the company faced significant challenges in detecting defects before deploying software updates to production.

Challenges

Garbarino operated with an agile development framework, releasing updates on a weekly basis. Due to the absence of a structured QA process, defects in the software were often discovered only after deployment, leading to disruptions in online and in-store transactions. When issues reached production, sales were directly impacted, and customers were driven to competitors. The key challenges included:

- *Frequent production issues:* Software defects were identified late in the development cycle, affecting business operations.
- *Lack of automated testing:* Manual testing was insufficient to cover all critical functionalities within short sprint cycles.
- *High cost of errors:* A single defect in production could disrupt transactions across all stores, leading to lost revenue and customer dissatisfaction.
- All Garbarino systems were cloud based systems.

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Solutions Implemented

BairesQA was engaged to implement a structured QA process and introduce test automation to accelerate defect detection and resolution. Our team worked closely with Garbarino's development and operations teams to deploy a comprehensive QA framework tailored to their agile workflow. Key actions included:

- *Development of an Automated Testing Framework:* We built a custom automation framework using Selenium and Java, enabling the execution of over 1,000 test cases daily. Those tests were centred on the final user point of view.
- *Integration with CI/CD Pipelines:* Automated tests were incorporated into TeamCity to ensure continuous validation of new releases before deployment.
- *High-Level Test Scripting Language:* To facilitate efficient test case creation, we developed a user-friendly scripting language, allowing non-technical team members to contribute to automation efforts.
- The framework significantly improved error detection, reducing the number of defects reaching production.

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Results

The implementation of BairesQA's automated testing framework transformed Garbarino's software development lifecycle. The key outcomes were:

- **Faster Defect Detection:** Automated tests identified critical issues before release, reducing the risk of production failures.
- **Increased Test Coverage:** Daily automated executions covered a broad range of test cases, ensuring the stability of key functionalities.
- **Reduced Time to Market:** Continuous testing accelerated the release cycle, allowing faster and safer deployments.
- **Minimized Business Disruptions:** By preventing defective software from reaching production, Garbarino significantly reduced the risk of lost sales.

Conclusion

BairesQA's contribution to Anypoint Partner Manager exemplifies our expertise in **complex integration testing, automation, and cloud-based system validation**. Our ability to develop scalable, reusable testing solutions significantly enhanced Salesforce's ability to deliver a stable and secure product to its partners worldwide.

This success story highlights *our strength in tackling technically challenging QA projects*, reinforcing BairesQA as a trusted partner in high-end software quality assurance.

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Thanks!

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