

# Scalable Test Automation for a Leading American Lifestyle Retailer



ATTENTION. ALWAYS.



**aspire**   
SYSTEMS  
*attention. always.*

## THE CUSTOMER

The customer is a leading retailer in the US and they are famous for their western formal footwear, apparels and other accessories for people from all age groups. Apart from operating from 208 stores in 29 states across the country, they recently acquired a leading ecommerce platform that sells country and western themed apparels and accessories.



## THE CHALLENGE



With their recent acquisition, the customer had been investing heavily on store renovation and overall technological enhancements to serve their customers better amidst their expanding business. As a part of the transition, the customer decided to transform their legacy systems to Salesforce's Commerce Cloud (formerly known as Demandware) to improve the overall usability.

In order to mitigate the risks associated with incomplete test coverage during this transition, they were in need of an expert partner that can take care of the quality assurance aspect.

# THE SOLUTION



Aspire's approach ensured end-to-end validation with assurance for AQ certified product releases while constantly accommodating the customer's business ideas and requirements.



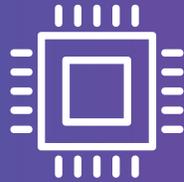
Aspire partnered with the customer by pitching in their automation expertise and suggested their flagship framework DCqaf (Digital Commerce quality automation framework) as the quality assurance solution. As a part of the transformation process, Aspire's team suggested an incremental approach with multiple regression test cycles and subsequent iterative releases as the fail-proof method.

## Solution in detail

The client approved Aspire's approach and it got executed in the following order:

- 1 As the procedure was incremental, Aspire's team understood the business needs by conducting workshops with the stakeholders and identified the most relevant test cases to be prioritized as per the requirement.
- 2 A traceability matrix was then formed to map each and every change request with its specifications and identified the business components that would be a part of the testing process.
- 3 The team then installed DCqaf, enabled Commerce cloud integration and began with the manual and automation testing procedures.
- 4 The cohesive nature of the framework allowed easier integration with 3rd party tools as several additional components like customer verification, fraud management, tax calculation applications were enabled in the client's application.
- 5 Aspire's team executed a robust functional and UI testing that included back-end validation as well.
- 6 DCqaf's multi-browser capabilities allowed the customer to expand the scope of their application beyond browser and application constraints.
- 7 Overall, Aspire's approach ensured end-to-end validation with assurance for AQ certified product releases while constantly accommodating the customer's business ideas and requirements.

# TECHNOLOGY SNAPSHOT



**Testing framework**  
Selenium

**Cloud-based testing platform**  
Sauce Labs, Browser Stack

**Programming language**  
Java

**Unit testing framework**  
TestNg, Junit

**Automation tool**  
Maven

**Version control tools**  
SVN, GIT

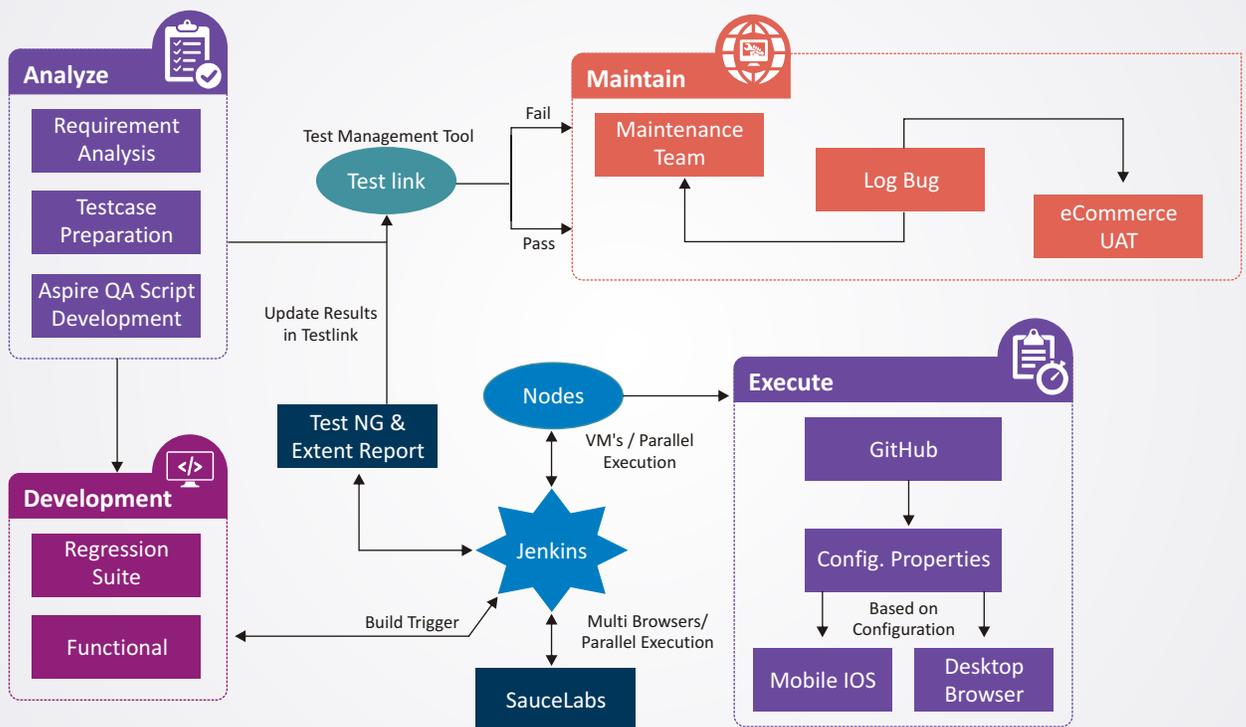
**Defect tracking tool**  
JIRA

**Continuous Integration tool**  
Jenkins

**Development Environment**  
Eclipse, Netbeans, RubyMine

**Test management system**  
TestLink

## TDD Framework Layout



## RESULTS & ROI

Aspire's automation solution with DCqaf aimed at improving cycle-time and ensure that no bugs get leaked during the client's application transformation process. The result of the collaboration proved to be a win-win for the parties; some of the highlights include:



Aspire's efforts resulted in drastic improvement in operational efficiency and maintained a zero percent defect leakage throughout the engagement.

As DCqaf was built on reusable components, it was easier to integrate it with the customer's original framework. As a result, during automation testing cycle, weekly executions got reduced to a 10 hours testing cycle.



Rapid automation also reduced the regression routines by 90%.

## FUTURE IMPACT



By implementing a powerful framework solution, Aspire empowered the customer with greater automation capabilities for seamless scaling of their applications for the future.

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## ABOUT ASPIRE

Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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