



# Empowering US Retailer with DCqaf - Robust, Comprehensive and best-in-class Automation Framework

Improve test execution productivity and agility with Aspire's Retail Automation framework

## Challenges:

- *Supporting multiple brands*
- *Ensuring proper integration with third parties*
- *Ensuring intactness and security of Storefronts*

## About The Customer

Our client is a leading American plus-size apparel and home goods company based in New York City. For more than 100 years, they have been serving plus-size tailor made clothing to men and women catering to their individual needs.



*attention.  
always.*



## Solution:

- *DCqaf(Digital Commerce quality automation framework)*
- *Multiple regression test cycles and subsequent iterative releases for transformation*

## Result:

- *Drastic improvement in operational efficiency*
- *Maintained a zero percent defect leakage throughout the engagement*
- *Rapid automation also lessened the regression routines by 90%*
- *With one framework Aspire was able to automate 7 website, 3 device environments along with 5+ browser combination*
- *With the usage of reusable components, the client was able to achieve 30% faster time to market and around 100k per sprint in savings*

## The Need

As a growing organization, they had to make sure their customers' shopping experience was made seamless through their available brands. The constraint of having to address different brands compelled them to implement a robust framework that could support multiple brands with minimal effort. The storefront of each business was dynamic and the systems needed to be intact as well as secure to provide impeccable shopping experience. The e-commerce website had to work seamlessly with all third-party integrations to be consistent in business. With the help of a test management tool and continuous integration the chances of scalability and reliability of the website could be validated, which in turn involved huge data sets to be fool proof.





## Aspire's Solution

Aspire understood the client's requirements and suggested DCqaf (Digital Commerce quality automation framework) as the quality assurance solution

The client approved Aspire's consultative and deployment solution and it got executed in the following order:

- » 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
- » A traceability matrix was then formed to map each change request with its specifications and identified the business components that would be a part of the testing process
- » With the capabilities of DCqaf, Aspire was able to provide a single framework solution to automate all 7 different websites and API Testing
- » For multiple browsers & device support, usage of Sauce Labs was suggested and then it also was integrated with the framework for seamless execution of real-time as well as virtual devices and browsers



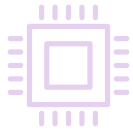


- » Usage of Sauce Labs has not only helped the customer to accelerate with variety of testing in Real time devices but also enhanced them to streamline the process of troubleshooting tests with cloud-based test grids
- » With the added advantage of cloud & cross-platform offering in the framework, live reporting and customized reports were provided
- » Along with API Support the execution results were mapped with TestRail to provide live execution status
- » The cohesive nature of the framework allowed easier integration with third-party modules like tax validation, customer CRM, review management tool, etc. Aspire's team executed robust functional testing that included back-end validation of order placed in Business Manager as well
- » Overall, Aspire's approach ensured end-to-end validation with assurance for QA certified product releases while constantly accommodating the customers' business ideas and requirements





## Technology Snapshot



- » Testing framework: DCqaf
- » Automation Object: Web + API Automation
- » Programming language: Java
- » Version control tools: Git (Bitbucket)
- » Defect tracking tool: Jira
- » Continuous Integration tool: Jenkins
- » Development environment: Java (Maven)
- » Execution environment: Sauce Labs, AWS Selenium Grid
- » Test management system: TestRail
- » Reporting Tool: Extent Reports, Google Sheets, Report Portal, TestRail Reports
- » API Integration Plugin: REST Assured
- » Value Added: One framework - 7 websites - 3 device environments - 5+ Browser Combos + API Automation + Support to Mobile App Automation



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