



Aspire's **End-to-End Retail Testing solution** enabled a major American retailer to save \$5 Million





Challenges:

- *Developing a single code base for migrating all e-commerce brands to Salesforce Commerce Cloud (SFCC)*
- *Functional testing of website features*
- *Performance testing of application and website to meet holiday peak loads*
- *Concurrent updates of mobile application with website*

Solution:

- *Dedicated QA/QE team to minimize manual testing efforts*
- *Performed quick testing for faster release with minimal cost and high quality*
- *Utilized cloud technologies for better stability*
- *Synchronized real-time application data using Salesforce front-end and Firebase*
- *Migrated build-management to cloud-based Bitrise to automate the processes*

About the Customer

- Our customer is an American departmental store chain which has 293 stores across 16 states of USA and a growing digital presence
- It is billed as a one-stop shopping destination for the entire family's needs that includes apparel, shoes, accessories, cosmetics and home furnishings from top national brands
- They also have a wedding registry

The Need

- To have a fully functional and high-performance e-commerce website with modern features to keep up with modern demands of omni-channel retailing
- Develop iOS and Android mobile applications compatible across different devices to provide the best customer experience





Benefits:

- *USD 5 Million saved over a period of five years by using a single solution*
- *USD 2 million saved per year from the application on backend hosting and maintenance*
- *Supported 150+ production releases with 1 million+ production users across the globe*
- *Reported 7000+ defects using 1350+ test cases and 800+ test scripts*

Challenges

The following are the challenges faced by the customer:

- Migrating all e-commerce brands to Salesforce Commerce Cloud (SFCC) requires developing a single code base for all mobile applications compatible on all screen sizes
- Enabling regular updates of the application to enhance website without affecting existing user experience
- Performance testing of the application and website during peak holiday loads
- Functional testing of all features across platforms
- Creation and execution of test cases for quality results
- Ability to scale the application and website without losing stability

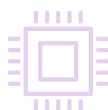


Aspire's Solution

Aspire's versatile retail testing framework DCqaf (Digital Commerce Quality Automation Framework) was used for the end-to-end testing of new e-commerce application across different platforms and browsers.

- Enabled to develop high-quality mobile application and website quickly at the lowest cost
- Performed rigorous and accurate end-to-end testing to suit every operation using DCqaf
- Downsized cross-browser testing complexities to provide agility to software development lifecycle and reduced costs
- Supported SFCC platform to allow compatibility testing
- Ensured the mobile app's quality stayed intact while enhancing core features and setting up of online store with the support of a dedicated QA team
- Implemented new feature enhancements in the mobile applications in parallel to those on the website which reduced time
- Cloud technologies were utilized for stability and Firebase was used to host mobile applications on cross-platform devices
- Highly efficient test cases from QA team helped to maintain the competitiveness of their e-commerce platform

Technology Snapshot



- » **Platform:** Demandware (Salesforce - SFCC)
- » **Cloud Computing:** Fastly, PerimeterX, GCP
- » **Bug Management:** JIRA and confluence
- » **Test Management:** TestLink
- » **Automation Tool:** Selenium Web driver/gird, Maven, TestNG, Sauce labs, Jenkins, GIT, Postman



Benefits

- Achieved a total savings of \$5 million over a period of five years by using an end-to-end testing framework
- Also attained a total savings of around USD 2 million per year from the application on backend hosting and maintenance
- Supported 150+ production releases with 1 million+ production users across the globe
- Reported 7000+ defects using 1350+ test cases and 800+ test scripts



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