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Leveraged Aspire's POS Automation Framework for a US based Retailer

Harnessing the power of increased scalability

Challenge

- *Unable to support multiple brands due to lack of robust framework*
- *Had to ensure proper integration with third parties*
- *Dependency on huge data sets to ensure scalability and reliability*

About The Customer

Our client is a leading American specialty retailer of casual apparel, footwear, and accessories for young men and women with an extensive assortment of iconic global, emerging, and proprietary brands rooted in an active and social lifestyle. More than 100 years into the business, they now operate 229 total stores, including a few pop-up stores, across 33 states.



Solution

- *Aspire's POS Framework*
- *Incremental approach with multiple regression test cycles and subsequent iterative releases*

Result

- *Drastic improvement in operational efficiency*
- *Maintained a 0% defect leakage*
- *Rapid automation lessened the regression routines by 90%*
- *Customized reports were provided for detailed tracking of the script's failure status*
- *Saved around 80% of the cost that could have incurred if done manually*
- *Quicker turnaround time with respect to execution and defect detection*

The Need

As a growing organization, they wanted to make sure their customers' shopping experience is made seamless through their available stores across the states. The constraint of having to address different platforms needed a robust framework that could support multiple platforms with minimal effort. APTOS under each store had to work seamlessly with all third party integrations to be consistent in business. With the help of the Test management tool and continuous integration, the chances of scalability and reliability of APTOS could be validated, which in turn involved huge data sets to be foolproof.





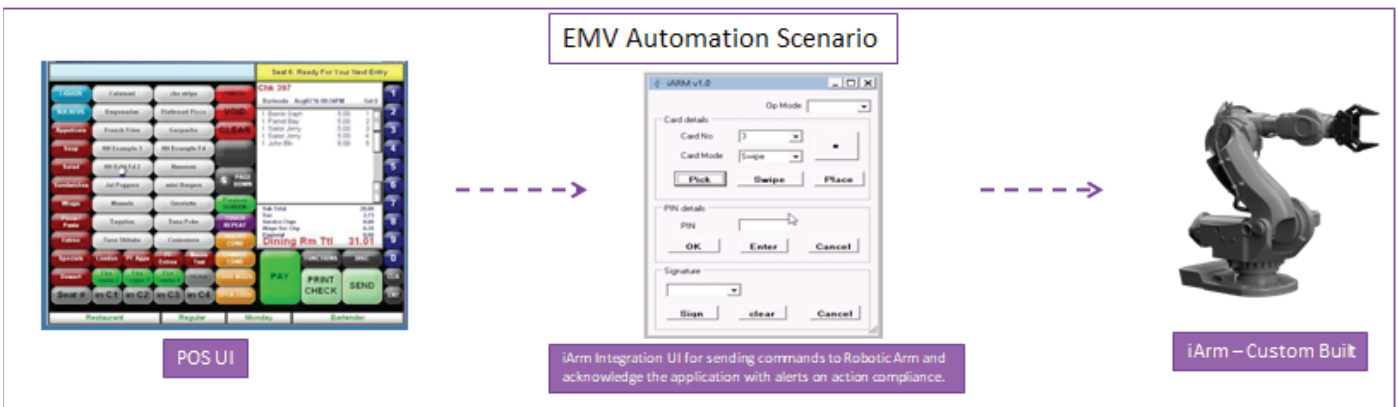
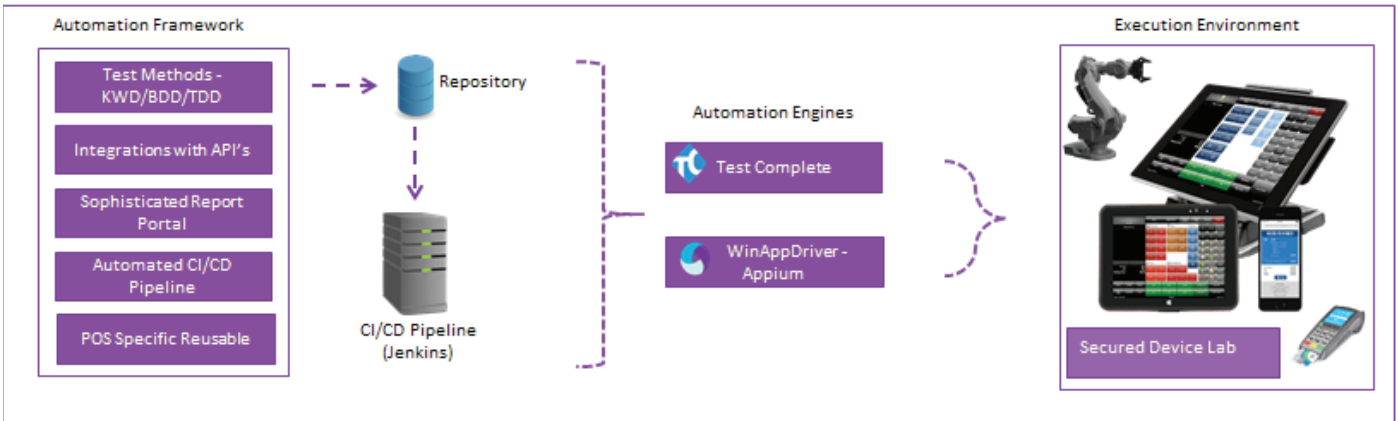
Aspire's Solution

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

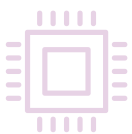
The client was happy with Aspire's approach and the process was executed in multiple steps.

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. Identification of the business components that would be a part of the testing process was done as well
3. The team then installed Aspire's POS Framework, enabled APTOS integration and began with the manual and automation testing procedures. The cohesive nature of the framework allowed easier integration with an integral part of POS components like Back Office Tools, Promotion, Loyalty modules. Etc. Integrated Robotic Arm to Aspire's POS test automation framework as well to make the end to end solution more robust and reliable. With this addition, the customer achieved a faster time to market
4. Overall, Aspire's approach ensured end-to-end validation with assurance for QA certified product releases while constantly accommodating the customer's business ideas and requirements





Technology Snapshot



Testing framework: POS DCqaf (Digital Commerce quality automation framework)

- » Automation Object: Desktop POS application
- » Test Automation tool: TestComplete
- » Programming language: VBScript
- » Version control tools: SVN
- » Defect tracking tool: JIRA
- » Continuous Integration tool: Jenkins
- » Development environment: TestComplete
- » Test management system: TestLink
- » Reporting Tool: Extent Reports



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