



<b>Context</b>	A popular “big box store” found in most cities in the USA developed a new online ordering system partly in response to Covid but mostly for the convince of their members. The reputation of this store is very high-profile.	In an AI-first adoption, the client was able to see results quickly that showed areas of concern in the application. The first results identified slow perming APIs from 3rd-parties and detected some mismatches between product descriptions, product names, and product images.
<b>Application Under Test</b>	This app was developed rapidly and testing was incomplete. With roll out just a few weeks away, executives wanted to be certain there would be no issues after the “go live” date.	Through close collaboration between dev, test, and expert AI automation engineers from the SI partner and Appvance, Blueprints (autonomous tests) were developed that targeted specific functional areas of the application.
<b>Staffing</b>	The highly agile team developed the application in record time and made use of many new features and design elements to create modern looking site with many advanced features.	While the client needed to see that certain test cases were implemented to satisfy compliance and audit controls, the majority of the testing depended on the AI. A small team of automation engineers partnered with dev domain experts.
<b>Testing Regime</b>	The only testing possible was done manually. The existing open source test tool stack was too slow to use and unable to keep up with the UI changes.	Selecting the areas of the application for automation was organized on a priority basis tackling those parts that had high reputational exposure, financial risk, and privacy concerns.
<b>Test Creation</b>	The developers did unit testing and the small test team manual testing that showed the application was solid and reliable. However coverage was estimated to be less than 10%.	A daily review of the overnight blueprints initially resulted in roughly an hour long Machine Learning session each day. By the end of just two-weeks, the blueprints were reporting >90% coverage of pages and actions and generating several thousand tests.
<b>Results</b>	Management concern and executive level policies drove an urgent search for possible solutions.	In the first few blueprint iterations, a number of critical third-party api-calls, several missing images, and some serious workflow deficiencies were caught.
<b>Response</b>	The store’s system integration partner recommended a rapid proof of concept using Appvance’s AIQ technology and in just one-day the AI was discovering unfound errors.	Now the application is released with no major issues the team are focussed on ensuring critical business flows are covered with human-written tests for specific use cases. The team calls it their “double-coverage” model - AI plus Human testing.

### Autonomous Testing Highlight

When you have mere days to the release window and insufficient time to fully test your business critical application, what do you do? In the past we've thrown bodies at it. But those bodies are expensive, take time to ramp up, and well, they're human.

We call it "the 'double-coverage' testing model" making best use of human and machine testers

Combining the domain expertise of the client's dev and test teams with the experience of the SI's and Appvance's automation engineers, meant that the Autonomous testing technology called "Blueprinting" was able find UI- and API-level issues in parts of the application that had not even been unit tested. Application coverage rapidly reached the high 90th percentile.

Though no one would say this rush to testing was ideal, having the infinite scale of Autonomous testing meant more of the application could be certified in the very short time available.

### About AIQ

Appvance IQ is the world's only fully Autonomous Testing Solution and Unified Test Automation System.

Appvance.ai is the leader in Ai-driven testing, which is revolutionizing how software testing is performed. The company's premier product is Appvance IQ™, the world's first Ai-driven, unified test automation system. AIQ empowers enterprises to improve the quality, performance and security of their apps, while transforming the efficiency and output of their testing teams.

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