



Context	A decades old company creates an innovative disruption in the relationship between providers, insurers, and patients. As a result their product is generating rapid growth and adoption.	By 2020, in addition to the existing regulatory landscape, drastic world events, drive the need for a faster cadence of product development and the highest order of product quality. Through AIQ the QA resources can now match Dev innovation.
Application Under Test	Uniquely the application has multiple portals based on a common core system that encapsulates both regulatory differences and business requirements unique to each client. This makes testing a "to the power n" problem set.	Modular test scripts harnessed together into portal specific test scenarios, each driven by a client-specific set of test data, means that changes to core code, changes to client-specific code, can be tested thoroughly on-demand. In addition, AI-generated tests enable near 100% coverage in each portal.
Staffing	Small onshore team augmented with offshore resources. Onshore team are talented testers but hindered by old, brittle testing tools.	By up-skilling the onshore team and making them AI proficient the critical systems can be test by the onshore team who are colocated with Dev. The offshore team are devoted to non-critical apps.
Testing Regime	Heavy reliance on manual testing because existing Selenium scripts require heavy maintenance.	Initial productivity gains of 5x in test script creation and the AI-driven improvement of test coverage to near 100% enable the onshore team keep up.
Test Creation	Test cases were described as "directionally correct" and "valid on day of issue" as the rapid innovation in the application was more important than accurate documentation.	Product owners now devote time to thorough description of high risk/high value use cases and the definition of business rules. The onshore team scripts the high value/risk use cases and the AI applies the business rules to everything else.
Functional Coverage	Best guess for the core system was about 30% but for the individual client portals much lower as they were rapidly changing	Now in the high 90th percentile with AI generating 10 times the number of test scripts the human team is doing. In addition load tests and security penetration tests happen several times per build.
Reliability	Inadequate tools resulted in a set of complex and underperforming processes that yielded insufficient results.	This client hosts their entire test environment and has full control over the AIQ environment. They can run a full battery of tests on demand and deliver comprehensive results and dashboards to QA, Dev, and the executive team.

AI Highlight

The use of AI with this progressive client transformed their QA practices. Where once the focus was on critical, often regulatory defined, use cases, now the focus is on defining the underlying business rules and teaching the AI how to recognize them. The result is an Expert System that combines the knowledge and experience of the Quality team with their decades of working in this space, with the millions of hours of experience exercising applications of all kinds that the Appvance AI has accumulated. The resulting system is one that adapts automatically to changes in the app and tests them anew without any human interaction needed.

By defining business rules once, AIQ was able to apply them universally cutting 90% of the scripts needed

About AIQ

Appvance IQ is an AI-driven, unified test automation system. It delivers transformational productivity gains in test creation and execution via Ai scripting and code-less test creation, and through unified functional, performance and security testing.

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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