XORIANT

PRODUCT TESTING AUTOMATION AUGMENTS QUALITY OF CLIENT'S PROPRIETARY APPLICATION

Automated legacy manual testing methodologies and improved overall product testing.

Client Background

The client specializes in business communications services such as unified communications (UC) and contact centers (CC). Along with on-premises services, the client also provides unified communications as a service (UCaaS), contact center as a service (CCaaS), and communications platform as a service (CPaaS).

The client wanted to harness innovative testing technologies and infrastructure in its existing business processes to improve the quality of its proprietary systems management application. The client's legacy testing methodologies had limited testing coverage, leading to scripting errors and degraded quality of the application.

The key objectives of the client included:

- Automation of manual testing tasks, enhancing and maintaining API automation framework, improve testing coverage and fix failing test cases
- Fix performance bottlenecks
- Design the test automation strategy with an effective framework
- Reduce turnaround time for regression, performance, and automation testing of builds and Open Virtualization Appliance
- Improve productivity and accelerate time-to-market
- Eliminate bug leakage by testing cases in various application versions and cross-browser settings
- Ensure early phase bug identification to reduce redundancies in testing

Xoriant Solution | Key Contributions

The client needed a strategic approach to tackle its legacy testing methodologies and testing infrastructure. With strong domain knowledge in digital quality assurance and specialized quality engineering, Xoriant proposed a robust

KEY BENEFITS

- Automation improved overall product testing by increasing testing coverage, fixing existing framework test case failures, and improved product quality.

- Cross-browser testing using Selenium Grid saved testing time for multiple browsers and provided privileged time to conduct more rigorous testing of critical business scenarios.

- Consistent execution of regression tests on multiple versions of builds and Open Virtualization Appliance significantly reduced bugs in released versions of the application.

- Automating manual testing tasks to enhanced testing framework and improved customer satisfaction

- Performance test suite improved test coverage and reliability

automation framework that supported the customer's end goals to provide quality releases of the systems management application to its customers.

Our key contributions included:

- Building Virtual Machines on ESXI, VCenter, VMware and deploying multiple elements within the solution to prepare a working environment.
- Managing and maintaining testing QA lab environment for the client.
- Building a robust performance test suite to provide coverage on maximum scenarios.
- Developing a strong automation framework to serve the functional and technical testing requirements.
- Supporting parallel execution of test suite across multiple systems, cross-browser testing, and localization using Selenium Grid tool.
- Customizing the existing automation framework to be compatible with Selenium Grid for minimum execution time on multiple browsers.
- Conducting end-to-end testing services covering functional, regression, performance, API automation, and specialized testing services.
- Ensuring robust testing through a greater number of regression cycles.

Client Testimonial

❝   Xoriant testing team helped automate manual testing tasks fixing performance bottle necks, improve productivity and accelerated our time-to-market. ❞

Technology Stack

Jenkins | REST Webservices | Java | .XML | VMware | vCenter | Apache JMeter | JBoss | JVM | WildFly | Maven | PostgreSQL