

AUTOMATION TESTING SOLUTION FOR HEALTHCARE TECHNOLOGY VENDOR



THE CLIENT

The customer is a leading provider of software services catering to the needs of the healthcare industry, focusing on advanced healthcare quality, patient safety and risk management, infection control and accreditation standards compliance. They capture and analyze meaningful data to effectively drive the decisions that improve the safety and quality of the healthcare organizations, hospitals, and patient safety organizations (PSOs).



BUSINESS NEED

- ⦿ The customer has a dynamic environment with:
 - Continuous enhancements and change requests
 - Multiple interfaces & releases leading to multiple cycles of release testing
- ⦿ Insufficient regression testing due to multiple releases on different products
- ⦿ Expanding business leading to high volume transactions and data
- ⦿ High degree of application customization as per customer requirements in turn increasing the complexity
- ⦿ Agile development methodology leading to continuous enhancements and change requests
- ⦿ Insufficient testing and low coverage leading to production issues
- ⦿ High "Cost of Quality" due to:
 - Lack of test automation and TMMi compliant processes
 - High cost of maintenance & testing
- ⦿ Mission critical application with data, failure of which will lead to loss of business & credibility
- ⦿ Lack of automation in continuous integration process used for build delivery



SOLUTION DELIVERED

ALLEN Calsoft Labs proposed a test automation solution using open source stack to reduce the regression testing time and integrated the automation scripts to their continuous integration process. The customer team was very impressed with the automation POC for select features which was demonstrated using Selenium.

The prominent features of the solution are:

- ⦿ Testcases are created using FRS and modified the manual test cases for automation
- ⦿ ALLEN Calsoft Labs' team provided 100% functional coverage for one of the product
- ⦿ Automation test cases are created and maintained in QC
- ⦿ Test Management, Defect management and Test Case version control handled in Quality Center
- ⦿ ALLEN Calsoft labs' automation framework provided high degree of usability, increased test coverage, and reduction in effort and cycle time
- ⦿ Automated scripts can be run in different environments using bat file
- ⦿ The customer's safety and risk management product has automated scripts integrated with CruiseControl for continuous integration



TECHNOLOGY USED

- ⦿ OS: Windows and Linux
- ⦿ Tools: Selenium Web Driver, TestNG, ANT, Cruise Control, Eclipse.
- ⦿ Testing Environment: QA, Production and Staging
- ⦿ Issue Tracking: Quality Center
- ⦿ Team size: 4

ABOUT ALLEN CALSOFT LABS

ALLEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALLEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALLEN Calsoft Labs is a part of ALLEN group, a leader in technology consulting and engineering services.

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