TestArchitect

Innovative Interfaces Inc., uses TestArchitect to reduce regression test execution time by 94%

LogiGear

Innovative Interfaces creates software for public libraries and academic institutions. Patrons are presented with a library-branded interface that highlights specific content for each community, such as top new titles or items on order. Advanced discovery features, including faceted results and integrated eResources, provide a simple entry point to the library's entire collection. Making sure that the interface works flawlessly on every browser is essential to user satisfaction.

The software has grown to six different subsystems that are detached and each has a separate functional, as well as regression testing cycle. The increase in number of systems to test, lack of time, ad-hoc interim releases, and shortage of resources going through the complete regression tests prompted the team to automate the regression cycles to enable more concentration on testing in features in the application.

Complete regression testing on all the six subsystems had become close to impossible for the QA team due to ad-hoc release by the development team. While running selective regression prevented major issues, the list of untouched areas in application grew considerably over time.

FAST FACTS

INDUSTRY:	• Computer Software
WEBSITE:	• www.iii.com
COMPANY SIZE:	• 200-500 Employees
LOCATION:	• Emeryville, CA
LOGIGEAR DELIVERED:	• TestArchitect™ • Software Testing Services
BUSINESS IMPACT:	• Reduced testing time by 94 % and overall enhanced product quality

The Vision

Joanne Zukowski, the Quality Assurance Specialist at Innovative Interface, and her group set out to find an automation solution that would allow them to automate their technologically diverse subsystems. While the technical compatibility of the automation software with the different subsystems was the most important consideration, the support from the tool vendor was equally valuable for Joanne's team. The team also looked for a solution that would allow non-programmers to create automation tests that were scalable and maintainable.

"TestArchitect has made it possible for us to write reusable tests, pulling values from the database and using variables without having a programming background. If we get stuck, the support staff is always there to bail us out. They are very responsive and knowledgeable. At times they exceed our expectations, providing us with custom action so we can perform the tests we want. We get the feeling they want us to succeed with TestArchitect."

Joanne Zukowski

Quality Assurance Specialist at Innovative Interfaces, Inc.

The Solutions

The subsystems were developed using different technologies and Joanne had to be sure if they would be able to automate all of them using one automation tool. Her team evaluated more than 4 Test Automation solutions before choosing LogiGear's TestArchitect. TestArchitect proved to be ahead of its competition on various aspects such as out-of-the-box, very few vendors have the capability to develop custom implementations for specific technical challenges.

The TestArchitect product support team and Software Center of Excellence (SCoE) built a reputation for providing customers the flexibility of automation just about anything by building custom solutions for application-specific challenges, and this project was no different. During the trial period, Joanne's team received training on basic concepts of Action Based Testing (ABT) and implementation of test automation using ABT and TestArchitect.

The team also benefited through one-to-one coaching from the TestArchitect Professional Service team for concepts that had to be addressed in detail. Joanne's team automated their first subsystem that was built in .NET using C++. Owing to the training from LogiGear and the design-based approach of TestArchitect, the QA team was able to create the actions, interface entities, and test designs in TestArchitect immediately.

At the same time having LogiGear's support team on standby to create complex low-level actions proved to be beneficial. The TestArchitect support team was able to address specific challenges the QA team ran into, such as capturing specific pages that were not recognizable through TestArchitect at first and creating custom-level actions that were used across various test cases, etc.

The Result

• Joanne's team was able to automated 80 regression test cases using TestArchitect Professional as a pilot initiative for one of the subsystems built in .Net and C++

• A 94% reduction in regression test execution time

• Within changing builds Joanne's team was able to maintain tests easily as they are required to change just the underlying actions while the Tests are largely unaffected.

All of the work was done within a 24-hours turnaround time. The support from the TestArchitect team enabled Joanne's team to successfully automate the 1st 80 test cases within 8 weeks. One automated, the tests were able to be run in minutes, vs. the hours it had previously taken to run manually.

About LogiGear

LogiGear is a leading provider of software testing services, test automation and application development and maintenance. We help organizations deliver better products while saving time and money. Since 1994, we have completed testing projects with hundreds of companies from early stage startups to Fortune 100, across a wide range of industries and technologies.

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