TestArchitect

Septech enables Agile development for their customers by using TestArchitect™ to reduce testing costs by 75%

LogiGear

Business Needs and Challenges

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SEPTech specializes in providing software implementation and test automation services to clients across the US, helping to define their business problems clearly, and designing solutions to solve their needs in a resilient and extensible manner.

SEPTech has adopted an Agile Development culture to maximize their client's satisfaction with the end product. Understanding that Test Automation is a critical barrier in successfully implementing Agile Development, SEPTech decided to take an organized approach of both tool and methodology to analyze target applications and create an efficient automated testing suite.

SEPTech needed a comprehensive, yet flexible tool, combined with a powerful issues management system to measure and evaluate software quality based on trend analytics. In order to manage multiuser systems, SEPTech also needed capabilities to efficiently test with multiple browsers, and various mobile OS, and PC apps. Another important requirement was that the solution had to be fulfilled in a cost-effective and timely manner in order to create both a robust, and dependable service offering for SEPTech's clientele. After looking to build this in-house, while evaluating open-source and proprietary tools on the market, SEPTech found their solution in TestArchitect™.

TestArchitect™'s proprietary Action-Based Testing methodology allowed for a natural structuring of tests that would allow SEPTech to test their target applications efficiently and effectively. TestArchitect™'s keyword driven testing methodology allowed for rapid enterprise automation, while reducing the need for automation programming staff. This was another feature that made it a perfect fit for SEPTech's needs.

FAST FACTS

INDUSTRY: • Technology Consulting

WEBSITE: • www.SEPtechconsulting.com

COMPANY SIZE: • 11-50 employees

LOCATION: • New York, NY

LOGIGEAR DELIVERED: • By becoming a consulting partner of TestArchitect™, SEP Technology Consulting was able to provide its clients with a quick and affordable way to automate and maintain their tests, by combining its expertise in Accela Configuration and Test Automation.

BUSINESS IMPACT: • TestArchitect™ enabled SEP Technology Consulting to create a powerful test toolkit and libraries for its COTS specializations, significantly reducing the time spent to create & maintain automated tests for its clients, equating to a faster product release and reduced delivery risks & delays.

Because of their success with TestArchitect™ and its fit for SEPTech's business needs, they decided to partner with LogiGear and become a Value-Added-Reseller (VAR) for the tool. By becoming a partner, SEPTech was able to leverage LogiGear's existing capabilities, most notably the TestArchitect™ support team, to help with automation implementation and offer customized services to their clients.

The Vision

SEPTech needed to increase productivity of its automation engineers, to increase throughout of creating and maintaining automated test suites. They decided to take a structured approach to analyze target applications and create a reusable suite of automated tests, which would work seamlessly across a number of browsers. Once automated, they wanted the ability for analysts to quickly put together multiple variations of those tests. In SEPTech's approach, automation engineers work in sync with application developers, while designing and implementing automated test cases in each sprint, such that those test cases can be used in subsequent sprints for continuous regression testing. As development of the application progresses, these test cases must be enhanced quickly and also sequenced into user scenarios, progressively building full end-to-end tests as the development cycle nears its end. Simultaneously, SEPTech's analysts create data-driven variations of these tests to enable continuous testing of all paths easily, resulting in an exhaustively tested application with ease and efficiency. This approach allows them to identify issues earlier in the development cycles and fix them immediately, hence reducing delays, improving quality, and increasing client satisfaction.

> " *Prior to adopting TestArchitect™ as our primary test automation platform, we performed QA manually and tried using other test automation tools, such as Selenium and HPQC. We found it challenging to provide a full testing suite including full end-to-end testing, entitlements testing and interface testing without employing an army of testers at a high cost and facing the difficulty of finding Java developers. By adopting TestArchitect™ we have been able to reduce our costs by 75%. Most importantly though, TestArchitect™ has empowered us to implement automated test cases, thereby incrementally mirroring our development methodologies.*
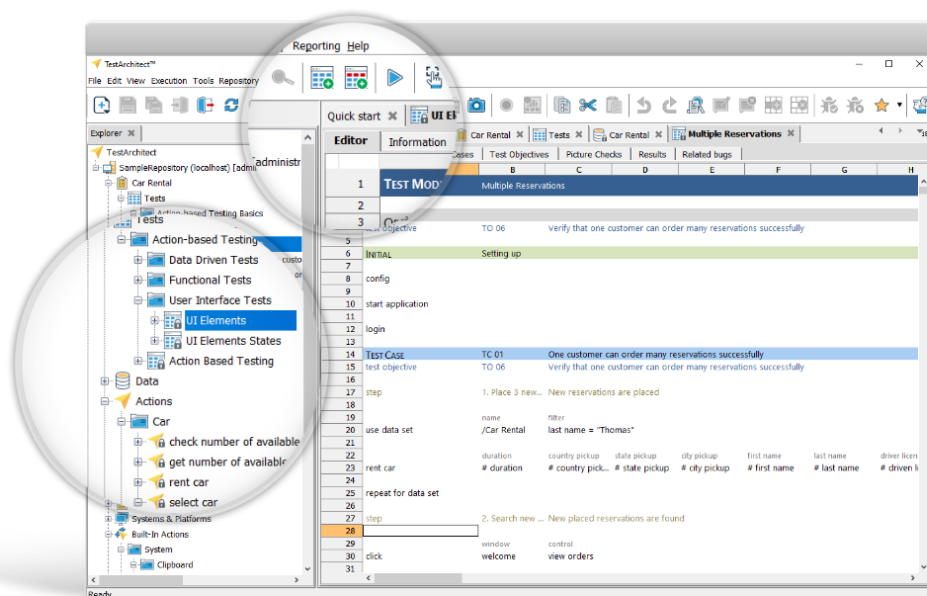
SEPTech "

The Solution

TestArchitect™ easily enables SEPTech's implementation methodologies anchored around modularity and reusability of test actions, which are further coupled with a data-driven approach. TestArchitect™'s resiliency and ease of identifying required updates to accommodate application changes helps implement a highly dependable testing suite, whilst limiting the need for maintenance. SEPTech leveraged TestArchitect™ to achieve these goals and provide powerful reporting for the benefit of its customers.

TestArchitect™'s test-actions allowed for manual testers to use the tool, reducing the need to hire more automation engineers. The resiliency of those test cases, and the ease of maintenance, increased the impact of those tests even further. This speeded up the project, reduced delays, and decreased costs. TestArchitect™ enhanced the capabilities of the existing SEPTech staff to meet demanding client needs and aggressive deadlines with greater efficiency, hence increasing productivity and predictability. Furthermore, beyond leveraging core capabilities of TestArchitect™, and after consulting with LogiGear, it was decided to build libraries to extend the product capabilities of TestArchitect™ by building customized reusable test actions for its clients and their applications.

Using TestArchitect™, SEPTech staffs were able to create complex test cases for controlling multiple-user sessions through a single test suite. In addition, SEPTech used TestArchitect™'s pre-built library of 400+ actions to build a layered combination of generic and client-specific libraries, which were all stored in TestArchitect™'s repository and available on-demand for their client's testing teams.

The Results

SEPTech has used TestArchitect™ since 2016 and has implemented it in various projects. SEPTech has created automated tests on different projects to fulfill the following Test Automation needs: Functional testing, API testing, Web Services testing, Mobile testing & Image comparison testing. They have also tested on the following environment types: on premise, cloud, distributed, web, desktop, mobile. SEPTech staffs have leveraged these tests (and its various components) to implement newer ones within the same project, and even in new projects.

Some examples of different usage of TestArchitect™ include the following:

SEPTech had a complex web application that provided its users with customizable screens and numerous drag and drop capabilities. Through middleware these screens were synchronized across users instantaneously. SEPTech used TestArchitect™ to devise sophisticated test cases to test user interaction and the applications dynamic behavior. They also use TestArchitect™ to verify results across users and to create self-driving test cases based on current-state data whilst verifying resulting conditions.

Within each project they have successfully developed test case segments to progressively build test cases whilst building up a regression testing suite. This was done segment-by-segment through each sprint, and was concurrently used for regression testing in subsequent sprints.

SEPTech has also used TestArchitect™ to create testing libraries for Accela (a custom-off-the-shelf or COTS product) and leveraged it across its various clients' projects. TestArchitect™ allowed SEPTech to release upgraded versions of test libraries to match Accela product releases, thus providing all clients with required upgrades quickly.

Due to the ease of implementation and the capabilities of TestArchitect™ across platforms, SEPTech found the ease of integration with various tools and their teams to be a turnkey testing solution for their clientele. SEPTech extended their own efficiencies in configuring Accela, by Automating & Manual tasks with Automated TestArchitect™ scripts.

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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