



CASE STUDY

SystemwarePS SOA Testing Framework



systemware
PROFESSIONAL SERVICES

CLIENT: Global provider of Enterprise Content Management Solutions

SITUATION:

This client has a large number of web services that are utilized by multiple end user applications. The services were being indirectly tested through manual and automated testing through the user interface, and the services had limited documentation. This testing process would take days and weeks to reveal logic errors deep within the solution. The client realized they needed a strategy to test these services directly without going through a UI as part of the nightly build process. They also desired to be self-sufficient at the conclusion of the project so they could carry the strategy forward.

SOLUTION:

SystemwarePS worked with the business owners, development, QA and documentation teams to fully understand the overall architecture so it could be tested more effectively. After initial analysis, various SOA testing tools were evaluated for the client's environment. SoapUI Pro was selected based on functionality, ease of use, cost and audience using the tool going forward.

A framework was developed within SoapUI to simplify test creation and maintenance. This powerful framework made similar test cases easy to create and similar expected results easier to verify through common functions and libraries.

The client's documentation team was engaged and improvements were made to be consistent with the documented requirements. This allowed SystemwarePS to begin writing test cases for the individual web services, improved overall test coverage and gave confidence that the expected results were correct.

Once the individual services were tested, complex business scenarios were created to test full business functionality through the solution. This end-to-end testing ensured that the data flowed through business logic correctly, and the client could be confident that their SOA layer was thoroughly tested and functioning as expected.

As these tests were developed, they were added to the regression suite and executed as part of the nightly build process. The SystemwarePS team transferred the knowledge, skills and testing documentation to the client's internal quality assurance team so they could continue to enhance and maintain the framework after the initial engagement.

RESULTS and BENEFITS:

This client utilizes the processes, framework and tools provided by SystemwarePS to validate the quality of the business logic of each release of software as part of their continuous integration. The client can quickly identify logic errors, make the necessary software updates and rebuild and retest in a matter of minutes instead of days or weeks. Result is faster time to market and improved quality of their software solution.

REACH NEW HEIGHTS
WITH THE RIGHT
PEOPLE, PROCESSES
AND TOOLS.

OUR COMPANY:

Systemware Professional Services is a woman owned information technology consulting company founded in 1991. As a privately held company, our business decisions are predicated on long-term objectives that result directly from our understanding our client's goals. Our mission is to earn a trusted partnership with our clients and consultants by solving critical business problems with innovative technology services delivered by a team of talented, energetic and passionate professionals.

SystemwarePS is an Equal
Opportunity Employer



SYSTEMWARE PS HEADQUARTERS
15301 DALLAS PARKWAY, STE 1100
ADDISON, TEXAS 75001
(972) 239 - 0200
www.systemwareps.com

ATLANTA BRANCH OFFICE
(404) 847 - 9444
DALLAS BRANCH OFFICE
(972) 239 - 0200

COPYRIGHT © 2014 SYSTEMWARE PS
ALL RIGHTS RESERVED