

Value Added Testing Service to AON

Aon was developing an online catastrophe management tool. Softsmith was engaged for Test automation and performance testing. Softsmith was also engaged for implementing test management using Quality Center.

Client Overview:

Aon Corporation is the leading global provider of risk management services, insurance and reinsurance brokerage, and human capital consulting. Through its 36,000 professionals worldwide, Aon readily delivers distinctive client value via innovative and effective risk management and workforce productivity solutions. Aon Consulting is among the world's top global human capital and management consulting firms, providing a complete array of consulting, outsourcing and insurance brokerage services.

Project Overview:

The product is an online catastrophe management tool which offers its clients immediate access to their catastrophe management data and supplements it with powerful analytics to assist in insurance and reinsurance decision-making. Insurers are empowered with complex, multi-layered information in a robust customizable format within a few mouse-clicks.

***Due to NDA with Aon, Product name, Product architecture, product code, technology and size of the project are not revealed.**

Engagement Model:

❖ Implementing a Test Automation Suite using the QTP

The application was a web based application. The major challenge was that, the object properties in The application were very dynamic. The scope of the objects were limited to user sessions. This Means the object name would change every time the user logs in and logs out. This is because all the Objects were fetched from oracle business intelligence reporting tools.

The following were the activities done to implement the test automation suite.

- A proof of concept was conducted to understand how the object properties changed. It was found that all the objects were encapsulated in a web table and the web table 's name was found to be static.
- The web table's name was found dynamically by using the static text present in the table.
- Then the description of the objects present in the web table was captured at run time using the child object methods.
- These run time objects were stored in an object collection and were used as and when required.
- Reporting functions were written to generate test run reports.
- A scheduling program was written which would trigger the health scripts every day at 6:00 am
- Web table functions were written to retrieve data from the reports which would be compared with a set of standard excel data sheets.

❖ Performance testing using Webload

A performance testing plan was created. A schedule was created with milestones for conducting performance testing. The following are list of activities carried out during performance testing.

- Identified user profiles and created based upon the user profiles
- Scripted Critical Use Case Scenarios. This includes applying correlation functions and data parameterization. Also several log messages were written for monitoring the script at run time.

- Single user test were run to make sure that all the dynamic data are captured and substituted properly. This was done by validating the HTML responses.
- Running the script with multiple users and monitoring the application server performance.
- Endurance test was conducted by running the scripts for long hours.

Issues Faced:

The script consisted of a dynamic value generated from the cookie. As this value was not part of server response, the correlation engine failed to capture the value. To overcome this problem a function was written to capture the dynamic value from the browser cookie file.

❖ Quality Center Customization

Softsmith's team was engaged to customize the quality center for the entire product assurance group.

This involved the following activities:

- Creating User defined filed in various forms and removing unwanted fields.
- Creating a mechanism that would allow the team to effectively use the user license.
- Customizing the work flows.
- Writing sub routines for triggering emails on certain conditions.
- Training the team to use Quality Center.

Accomplishments:

- A standard test automation mechanism was implemented.
- The regression test cycle was reduced by around 70%.
- Critical use case scenarios were benchmarked for performance.
- A proper test management mechanism was implemented using quality center.