

Automated Regression Testing



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Case Study for Leading Securities Broker

Company profile

A major financial services company based in Japan, providing knowledge and IT solutions for financial business worldwide.

Anshinsoft has been a very key strategic outsourcing partner of this company for design and development of a comprehensive back-office IT solution.

Business situation

A major implementation of the new generation STP enabled comprehensive back-office system is in progress for the US Securities market. The design and development of the system is over and it is currently in UAT phase. Bugs, enhancement requests and user feedbacks need to be incorporated into the system even at this late stage. Naturally, regression testing is a major step to ensure the stability and consistency of the system. At the same time, we also need to make sure performance metrics of the system does not degrade after late changes have been made.

This is a sheer challenge simply because of the size and complexity of the overall system. Without relying on automation in the testing process, it is virtually impossible to minimize the probability of regression bugs.

Solution

To ensure the quality of the entire system at the highest level, we have designed an automated regression testing framework by using industry's best functional and regression testing tool Mercury Quick Test Professional (QTP). We have developed a set of automated test scripts in QTP. By executing these pre-developed test scripts and test suites on a similar kind of test environment simulated from client, we can test the entire system flow within a very short time frame and provide assurance to our customer that there is no regression and performance degradation at all.

The set of test scripts in QTP which is to be executed on a daily basis in a nightly batch mode on the following regression areas:

- All service jobs
- All batch jobs
- All reports
- Total integration and system flow
- Performance measure of all services
- Selective user interface (GUI)

Benefits

- Meeting deadline by executing huge number of test cases within a very short time, which is not possible by manual testing
- Executed in an unattended way (nightly batch mode)
- No chance of human error
- Saving lot of effort and increased productivity
- Increase in client's confidence level
- Lowered cost

Services used

Anshinsoft solely relied on the experience and expertise of its own test analysts and test tool experts to prepare and execute the test suite. The functional testing tool Mercury Interactive's Quick Test Professional is used to automate the test scripts. However the system flow and other project related documents from the client are the input to this process.

Other Service Providers

None