LTIMindtree

Reducing Cost and Manual Effort by Testing Automation

LTIMindtree partnered with a global shipping & logistics leader to transform their testing ecosystem, reducing manual effort and accelerating time-to-market

Client

The client delivers innovative and sustainable global shipping and logistics solutions for manufacturers of heavy equipment, cars, trucks, and specialized cargo. It is amongst the leaders in transporting automobiles, farming, construction and mining equipment, trains, yachts, and other heavy machinery. It offers supply chain solutions and services in freight shipping, inland distribution, terminal handling, and also technical services.

Challeges

The client was looking for a partner who could design, implement, and execute automation and performance tests across their ocean, terminal, financial, and web businesses. The client also wanted to reduce the testing effort, by increasing the regression automation test coverage to ~80%, and reduce the turnaround time for test execution, with an on-demand execution suite solution.

Benefits

80%

reduction in the execution period for the automated test scenarios.

Automated **50 to 60%** manual test cases in each of the applications.

90%

reduction in the effort spent for regression testing of integration scenarios.

LTIMindtree Solution

A proof of concept (POC) was conducted to assess the feasibility of automating client applications using HP tool QTP and LTIMindtree proprietary Framework HTAF (Hybrid Test Automation Framework). LTIMindtree customized our proprietary framework HTAF, aligning it to the client needs, and implemented automation approach with more reusability to increase efficiency and productivity. LTIMindtree automated 20+ applications using HTAF, which include web and desktop applications. We also developed a new keyword based automation framework, an enhanced version of HTAF, in alignment with the client testing environment.

LTIMindtree has now established a standard performance testing process across various applications for the client.

Technologies Used:
- Oracle 11G, SQL Server and DB2.
- HP Quick Test Professional/Unified Functional Testing 11.53 & 12.51.
- LTIMindtree Hybrid Test Automation Framework (HTAF).
- Java, J2EE, Ajax, Power Builder, Java Swing.

Highlights of Solution:
- Developed script based framework on top of UFT and being used to test the configuration based GUI functionalities for about 130 master screens of WITS Online web application.

- Followed functional decomposition approach and created test scripts using UFT to validate DW and STRATA reports.
- Automated 100+ EDI test flows to validate integration configurations and data flows across various applications.
- A standard tool, LoadRunner, being identified and implemented for all the performance test activities.
- LTIMindtree's performance and automation test processes, scripts, execution design, analysis results, and other artifacts were certified to be of excellent quality by HP.

Benefits (Continued from Page1)
- Improved coverage and reliability through robust regression suite.
- Standard testing processes established ensuring repeatability of tests.
- Reduced cost and time-to-market by maintaining the regression testing timelines.
- Reduced service maintenance and framework license cost by optimal license management.