

Syntel's Automation Framework Reduces More Than 1,000 Person Efforts

Software as a service (SaaS) is a way of delivering applications over the Internet, as a service. Instead of installing and maintaining software, Syntel helped its client — a Fortune 100 global leader in financial services, simply access it via the Internet thus reducing dependency on complex software and hardware management.

CHALLENGES

The client was performing testing manually and hence was unable to mitigate these challenges:

- Frequent releases from multiple development teams involved
- Changes on short notice
- Lack of data security and privacy
- Performance issues

SYNTEL'S SOLUTION

Syntel proposed a hybrid Quick Test Professional (QTP) framework approach to migrate the entire regression and new functionality testing, from manual to automation testing. Syntel's team completed the following:

- Analysis and understanding the business process with available resources
- Transformation of business knowledge into reusable keyword QTP functions
- Preparation of an object data library for SaaS user interface (UI) object, which can be utilized throughout any module of application

Here is the structure of framework:

- **Control layer** — Consists of the driver script that drives the entire framework execution by completing the prerequisites
- **Input stream** — Object repository recognizes the objects seamlessly and utilizes the test data throughout the framework
- **Report generation** — Generates excel reports with detailed status of executed test cases; screenshots are captured and stored in test results

BUSINESS BENEFITS

- 1,000+ person hours reduction, with automation completed for three out of 10 modules of Salesforce
- Flexible to changes in test data and object repository due to hybrid framework
- Decrease in efforts required to update for new requirements/scenarios, made possible in sprint automation
- Scripts that can run multiple times on multiple sandbox
- Data security with enhanced encryption coding methodology

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