



To succeed in business it is necessary to make others see things as you see them.

## Regression Test Automation Project

### Abstract

The client is a leader in providing supply chain of software on web and mobile devices. The client had made significant investments in developing a robust product. The challenges confronting the client were primarily related to ensure repeatability and stability of testing procedures so that the ongoing changes/enhancements within the system are easy to test. Client was looking for offshore test partner to derive sanity test cases in the first phase. Gateway was selected as an offshore test partner to perform test automation of sanity flows of the application. Gateway team had to ensure that the overall quality of deliverables within the agreed timeline. From Gateway's effort – client got the benefits such as overall reduction in cost of testing, early identification of issues in test cycles.



# Case Study

## Client Profile

The client is a leader in providing supply chain software on web and mobile devices. Their supply chain product helps companies reduce operating costs and gain competitive advantage by automating the collection, analysis of critical sales and distribution information.

## Business Need

The client had made significant investments in developing a robust product. The challenges confronting the client were primarily related to ensure repeatability and stability of testing procedures so that the ongoing changes/enhancements within the system are easy to test.

The enhancements/additions required the client to continuously test the application which required significant amount of time of the stakeholders. It also impacted the overall quality of testing along with associated costs and time.

Client was looking for an offshore test partner to:

- Derive sanity test cases in the first phase
- Integrate these test cases into an automation framework (Quick Test Pro 8.2)
- Verify and update the test automation framework
- Execute and maintain test repository

## Challenges

The main challenges Gateway faced were:

- Application complexity
- Non availability of formal functional documentation resulting in requirement of close collaboration with the client for understanding, verification and execution of test automation framework.
- To write Tests to cover the core business functionalities and tests were needed to be near perfect.
- Ongoing changes in the application in terms of new features, enhancements and changes.
- Verification of application report details against the inputs and values in database and other technology constraints related to application and Quick Test Professional compatibility.

## Benefits

- Overall reduction in cost of testing
- Increased efficiency of testing due to repeatable automated tests and less manual intervention
- Effective automation with different sets of data and test scenarios which was time consuming in manual testing
- Early identification of issues in test cycles

## Gateway's Solution

Gateway was selected as an offshore test partner to perform test automation of sanity flows of the application. Gateway team had to ensure that the overall quality of deliverables was achieved within the agreed timeline.

The test automation was achieved using Mercury QuickTest Pro 8.2 and respective technology add-ons. Application access was given by client on Gateway's local test environment.

## Technology

- Platform: White box Linux, Apache Tomcat
- Framework: Java 1.4.2
- Database: MySQL
- Script Development: Mercury Quick Test Pro 8.2 with Java Add-in

## Industry

Route Management, Distribution Channel

One of the major challenges in the execution was non-availability of formal functional documentation of the application. To overcome this limitation, we devised an iterative approach with the client. For each functionality group, Gateway followed the following approach iteratively.

- Knowledge Transfer over Collaboration tools like GoToMeeting and voice communication for understanding of application flows
- Documentation of test cases for the modules under consideration
- Test Case Approval from the client
- Test Automation and execution
- Verification of automated test scripts
- Closure and acceptance

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