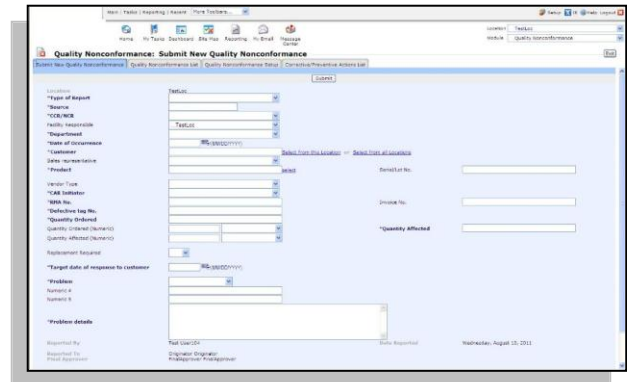# Quality & Business Management

Automation Testing

Executive Summary

The Client firm was facing huge challenge for maintaining the regression and functionality testing for their large set of test cases which covers functionality of very complex and dynamic application. A small change in code may have huge impact on other modules. It was not possible to go through regression testing every time a change occurred or the environment got changed.

So they contacted Mindfire Solutions for Automation Testing. Mindfire Solutions Automation engineers were subtle enough to understand the objective of the client and started work. They have developed large number of scripts which can perform regression and functionality testing for any specific module within 10 to 15 minutes, saving approximately 8 hours of work in manual testing.

About our Client

Client Solution Provider | **Location** Canada | **Industry** Quality & Business Management

Business Situation

The client provides different modules for Quality & Business Management domain whose clientele consisted of many big organizations.

Quality Management System (QMS): The QMS software is mainly responsible for continuous quality improvement and ensuring regulatory compliance without compromising product or service quality.

Supplier Management System (SMS): The supplier management software system takes a complete life cycle approach to supplier relation management (SRM) .It covers lots of features as Supplier Management, Supplier Evaluations, and Supplier Ratings etc.

Business Performance Management System (BPMS): It is a comprehensive software application through which organizations can optimize their business performance and measure their success by real time corporate reporting dashboards.

Training Management System (TMS): The TMS enables an organization to schedule, track and report on employee training, licensing certifications and qualification for individual employees, contractors or work groups.

So, they were looking for an able offshore partner who can very efficiently deal with the tasks related to automation testing and help them reduce their effort and pain of dealing with regression testing anymore.

Solution Details
The Mindfire Solution

Mindfire took up the opportunity and established an external team of QA resources and started to explore the different modules, functionality, and work flows before moving into the actual automation testing work. The QA team undergoes extensive training sessions on different modules from client end and tried to establish proper test data, test cases and test steps. They tested the product very rigorously and reported all the issues, incidents to the client to get clarified. Now they started preparing automation plan for each related modules and functionalities to optimize the automation testing. Automation plan serves as a base for actual test scripts. Mindfire has chosen QTP for automation because of various reasons. QTP is market leader and best suited for these types of applications.

Achievements

The QA team had various major issues to resolve and worked very hard to reduce the initial script automation time by 40% by using Shared Object Repositories, Descriptive Programming. The team was very flexible in working with different Frameworks as Hybrid Framework, Keyword Driven Framework and Data Driven Framework. Finally, Mindfire successfully developed scripts for all the modules and continuously maintained them for different environments.

Technologies

QTP.

Final Results
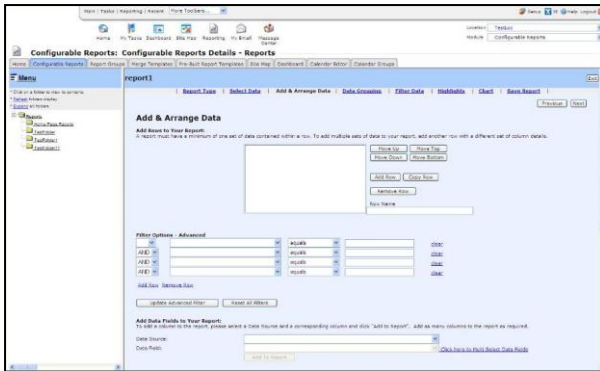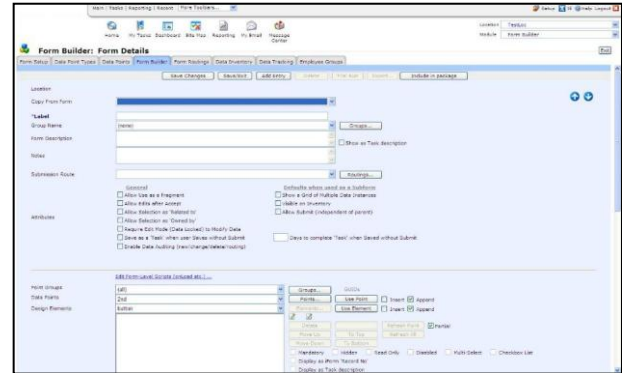### Software System

Fig 1: Report Builder

Fig 2: Form Builder

Customer Benefits

QTP testing procedure proved to be a beneficial one for the client. He not only reduced his time by significantly high margins but also managed to reduce his testing efforts.

Future relationship

The client had a good experience with Mindfire Solutions and decided to go on with Mindfire Solutions for his future testing projects.