

Testing Automation from Microexcel Reduced the Test Suite Maintenance Cost by 90% for Europe's Leading Financial Services Specialist

Quick Facts

Background

Solution

Benefits

Industry: Financial Services

Location: Germany/UAE/Singapore

Employees: 65,000

Revenue Range: 1B – 5B

About the Client

The client is a global financial services and technology company headquartered in Aschheim, Munich, Germany. The company specializes in payment processing and issuing services.

Background/Challenges

- Critical defects leaked into post-production
- Regression testing was very time consuming
- Huge amounts of transactional data required extensive test coverage
- Use of multi-level sinking and Ajax widgets in the application increased complexity in test automation
- Large set of business rules increased the number of test scenarios required to ensure optimum test coverage

Solution

- Designed robust, scalable, and configurable
 Selenium automation framework
- Built automation scripts across applications, including Core Money, Core Admin, Case Management, and Self Service
- ▶ Integrated the developed automation scripts with Test Management tool (JIRA and Zephyr)
- ▶ CI enabled automation framework using Jenkins
- ▶ Built 1,000 end-to-end test automation scripts
- Scripts execution on multiple browsers (IE, Firefox, Chrome, Opera and Safari
- Customized HTML reports

Benefits

- Generated savings of 70% on manual test execution time
- Robust and reusable test automation approach reduced the test suite maintenance cost 90%
- Removed the need for manual sanity testing of build with complete automation of all the sanity test cases
- High quality testing resulted in early defect detection



Automated Testing Suite

decreased testing execution time by 70%

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The client required building an automated regression suite to ensure maximum test coverage and proper functioning of all business processes in the new test builds.

Environment

- Existing Application Environment: Microsoft .Net , Microsoft SQL Server , JAVA
- Applications : Core Money, Core Admin, CMS, and Self Service
- ▶ Testing Types: Test Automation

Challenges:

- ▶ Lack of visibility of product quality ahead of the release into the production and continuous changes during
- ▶ Long test cycles due to lack of test automation of regression cycles
- ▶ Use of multi-level sinking and Ajax widgets in the application
- Integrate the test management tools to improve scheduling capability to run test scripts on various environments
- Covering end-to-end business flow in the automated test suite and have compatibility with different browsers
- Monumental amounts of transactional data required extensive test coverage
- ▶ Ensure proper functioning of all business processes in new builds

With these challenges and key objectives in mind, the client sought a partner to assist in achieving each of them.



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Solution

- Implemented robust automated test suite, which covers end-to-end test scenarios of applications for Business Process Testing and Regression Testing, including:
 - Core Money
 - Core Admin
 - Self-Service
 - Case Management
 - Core Issue
- > Developed reusable application specific functions and generic reusable functions for ease of maintenance and reusability
- ▶ Built 1,000 end-to-end test automation scripts across various applications of client
- Created filed validation scripts across various tabs
- Customized HTML reports with summary, details, and screenshots for failed test cases
- Test execution on multiple browsers, including:
 - Internet Explorer
 - Firefox
 - Chrome
 - Opera
 - Safari

Built 1,000 End-to-End Test Automation Scripts

across various applications of the client



Quick Facts

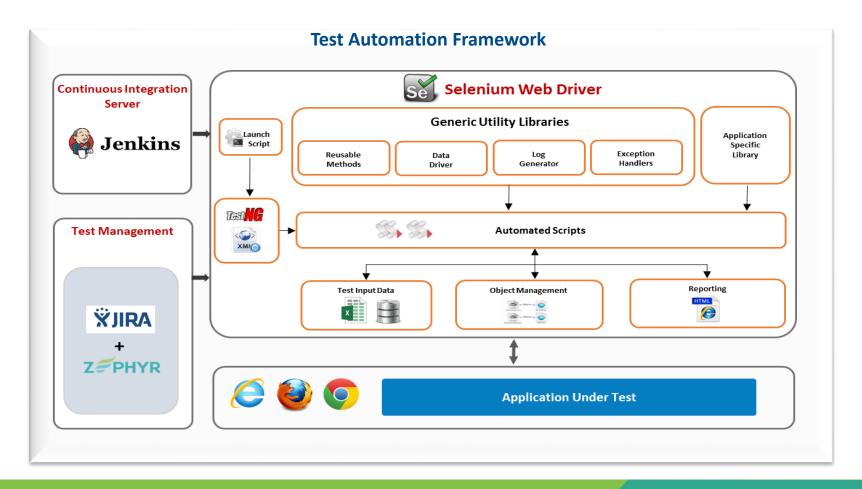
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Solution

- Implemented JIRA with Zephyr plugin as Test Management tool for maintenance of test case
- Developed a plug-and-play automation framework that is portable across multiple applications, and supported Ajax
- Integrated the automation framework with Test Management tool and continuous integration tool Jenkins





Quick Facts

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Benefits

Generated savings of 70% on manual test execution time

Robust and reusable test automation approach reduced the test suite maintenance cost 90% Reduced 60% total testing cost by leveraging complete offshore engagement model

Reduced postproduction defects by 40%

Reduced infrastructure resource requirements with setup for test execution with real-time reporting and an automated one-click defect reporting solution

Established QA metrics for release sign-off



For more information, please visit www.microexcel.com or email info@microexcel.com

About Microexcel

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