CASE STUDY

QA Automation

For an Information & Communications Technology (ICT) provider
Project Overview

A test automation framework was developed using Selenium grid over Docker for running end-to-end tests against the client’s customer portal.

About The Client

The product was developed for a leading global provider of information and communications technology (ICT) solutions and is part of a group among the top 100 ranked corporations in the Fortune Global 500.

Case Survey

The Customer portal needed to be tested against multiple browsers using a data driven testing approach where the data sets & no. of test iterations can be controlled by the tester.

Technology
Detailed Flow

QA Automation Workflow

Our Solution

- A test automation framework using Docker containers was designed and integrated to DevOps, for immediate verification of Liferay updates over multiple browsers.
- Consolidate existing Liferay test cases
- Test Scripts using Jasmine/Protractor.
- Mounting Selenium Containers using Docker.
- Register Selenium nodes for multiple browsers like Chrome/Firefox, to the Selenium-Hub.
- Auto execution of Protractor tests against the application
- Reporting:
  - Process the test results and mock them into JUIT formats
  - Push the test results to Bamboo, for consolidated reporting.

Business Benefits Delivered

Our QA Test automation solution, using Protractor in a Docker configured environment provided below benefits:

- Simpler architecture & minimalistic setup.
- Tests run in parallel using selenium grid which distributes them across multiple physical or virtual machines reducing the test execution time.
- Consistent test environment provided by Docker ensures integrity of test results.
- Data driven testing isolates the data sets from the automation code providing greater control.
- Consolidated test results in to the Bamboo world for one shot DevOps/Build Reporting

About InterraIT

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