



CASE STUDY

QA Automation

For an Information & Communications
Technology (ICT) provider



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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

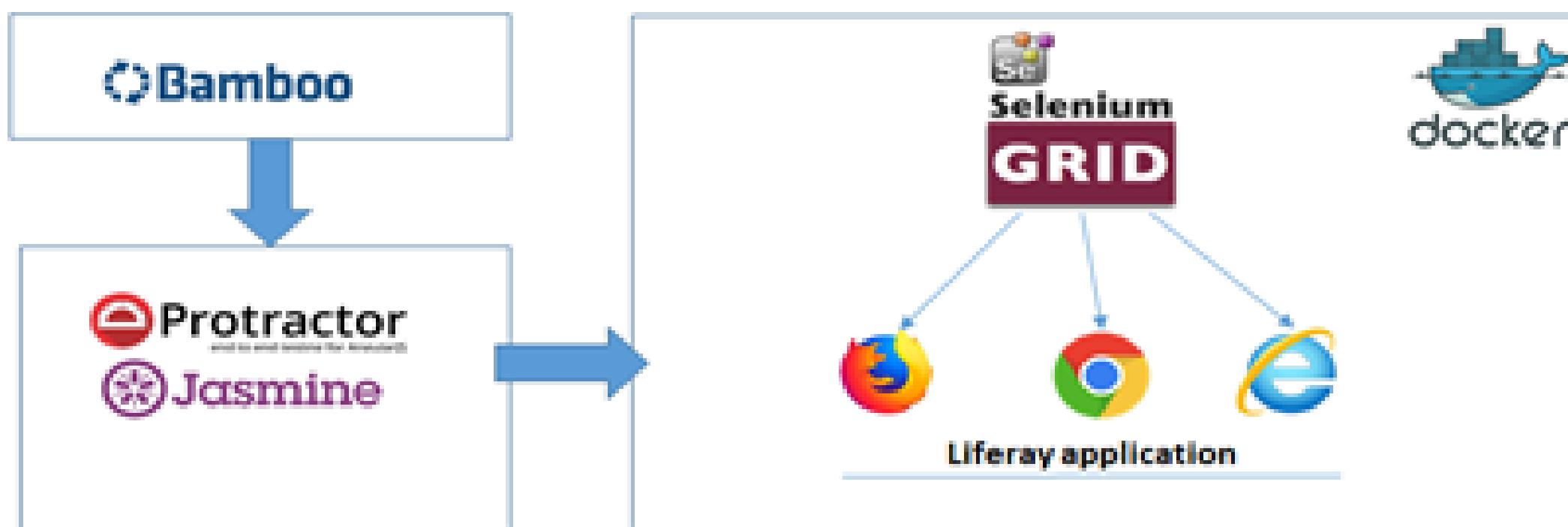
The Customer portal needed to be tested against multiple browsers using a data driven testing approach where the data sets & no. of test iterations can be controlled by the tester.

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

InterraIT is a global IT consulting & services company providing business software solutions that improve operational efficiencies, address organization's unique business needs, and manage information at lower TCO & faster ROI. Established in 1996 & headquartered in san Jose, InterraIT is an ISO 9001-2015 SEI-CMM level 5 assessed and certified organization with world class delivery.