



WEB AUTOMATION TESTING

Overview

The Client is a US-based, develops cloud-based platform with machine learning and artificial intelligence for automotive retail industry.

Business Need

- ✔ To automate test cases for different logins of their application for different Operating Systems and browser combinations using Selenium Web driver.
- ✔ 2000 + manual and 1200 + Selenium automation regression scripts maintains, and execution is taking 7 days with 21 offshore and 4 onsite people
- ✔ The existing QA execution cycle is more than 7 days of 3 weeks sprint
- ✔ Average by QA person design 15 functional test cases, executing 22 test cases, and automate 3 scripts per day is leads lot of capacity
- ✔ Needed a reliable partner who could effectively provide seamless Automation services

Client Situation

- ✔ Customer experienced several issues with its QA
- ✔ Automate critical scenarios for regression testing
- ✔ No integration b/w requirement, source control, CI & CD, test and defect management tools
- ✔ Taking three days to crate test data for automation test execution for a release
- ✔ More than 20 VM's/VDI's are using for automation test execution for a release
- ✔ Coding standards and unit test was not properly done by Dev team because of timelines
- ✔ Manual risk assessment is causing production defects slippages



Recommended Solution

- ✔ Worked an iterative and incremental plan for test case and automation scripts migration into SmartQE
- ✔ All test types, levels are combined together with a single dashboard
- ✔ Integrated customer Jenkins to SmartQE
- ✔ Integrated Code coverage, Unit, regression (web) testing into same framework
- ✔ Identified data criteria's and automated those data criteria.
- ✔ Enhanced process for Defect Management
- ✔ Input data is extracted from DB, if don't have DB access, created scripts to generate data before start executing of main regression suite
- ✔ Integrated Kubernetes cluster containerization for parallel executions
- ✔ Automation scripts maintains is easy with help of SmartQE diff feature.
- ✔ Integrated with CI and CD environment



Results

- ✔ Client achieved 100% test automation coverage for cross browser compatibility
- ✔ Reduced 50% of work force
- ✔ Reduced QA 7 days execution cycle time to one day
- ✔ Automate & execute all the test cases related features generate 60% revenue
- ✔ We provided thorough documentation and step by step guide to the customer on how to run the tests and look for the results.
- ✔ Test data creation for each release cycle reduced around 50%



Technologies

• Selenium Webdriver • Java • Jenkins • TestNG



DevRabbit IT Solutions Inc.



5776 Stoneridge Mall Rd,
Suite 280, Pleasanton,
CA 94588



1-650-352-8686



info@devrabbit.com