

QA Automation

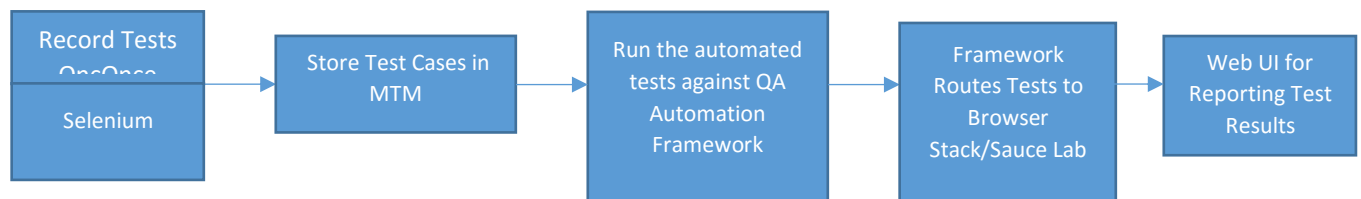
Automating Manual Test Cases and Building Automation Framework White Paper
No Manual Test Cases – No Manual QA – Ever! Using Browser Stack and Sauce Labs

Overview

Our customer hired us to automated over 1000 manual test cases to automate. They were not sure of how to do it and why they needed it. They felt that by automating it, they can reduce their manual QA turn-around time it takes from 18-hours to 3-hours. Our customer had a very large complex desktop and web based system. The web based application users were mostly external users while the desktop applications were used for internal processing. The manual test cases were for both desktop and web-based application.

Solution

We reviewed the systems and manual test cases and recommended that instead of conversion to automation, they should consider recording test cases using Selenium. We also recommended that they allow us to build a QA Automation Framework that will help run these recorded test cases against multiple browsers in cloud on Sauce Labs or Browser Stack. The entire process is depicted below:



With this approach, the manual test cases were completely removed from the equation and the automated test cases were run against Firefox, Chrome and Edge along with mobile browsers.

To view the results of the tests that were run, a very basic web application was setup to allow QA Analysts to log in and view the results. This web-UI was used to allow MTM to report all test cases after running on Browser Stack or Sauce Labs.

Results

With over 1000 automated tests and the web-portal to report what % of test cases were run and the success/failure report, it became very easy to see the system behavior. We also cut down the test turn-around-time on sprints from 18-hours to 3-hours. This approach significantly improved customer's confidence in regular bi-weekly production rollouts and reduced friction between development and QA teams.



Want us to solve a problem?

We can help you solve this or any other software development or QA Automation problem. We have done ton of such implementations – let us help. You can reach us at betersystem@bpktech.com or (612) 293 7585.