How A Leader Testing Services Company Automated 20X Faster with MuukTest

Overview

e-Quallity is a leading provider of testing services in Latin America with expertise in test design, execution, and automation. e-Quallity was contracted to compare the performance of their current testing processes versus those of MuukTest during an actual customer's testing engagement. MuukTest automated tests 20x faster, found 20% more defects than e-Quallity's traditional testing methods, and the automation engineering cost was 95% lower.

Product Used for Benchmarking

e-Quallity ran the comparison test on a typical customer project. The specific application tested was for a SaaS web application written in PHP that targeted school systems. The application captures and shares students' grades while enabling messaging between multiple stakeholders including teachers, administrators, tutors, and students.

How MuukTest Performed - Benchmarking

In summary, MuukTest vastly outperformed today's methods:

	e-Quallity	MuukTest	MuukTest Value Added
# Test Cases Designed	288	841	+ 3X more tests
Test Design	80 hours	6.85 hours	+ 12X faster
Test Automation	136 hours	6.85 hours	+ 20X faster
Automation Engineering Cost (US)[1]	$7,072 USD	$356 USD	95% lower

1 average cost of a software tester in US is $99,082 USD ($52/hr) https://www.indeed.com/salaries/Software-Test-Engineer-Salaries

In the course of benchmarking an opportunity for improvement was identified. During the initial execution of MuukTest automated tests, the results needed to be reviewed by the test engineer to confirm validity. This review slowed the process down. For initial execution, the performance time was slowed down 2.4X. However, following initial execution, performance time improved up to 2.6X faster than manual execution. Given this result, we have shifted our priority to eliminating the

need for review and confirmation of automated test validity by creating a functionality that will perform the test engineer assessment.

Benefits & Outcomes
As noted in the benchmarking exercise, MuukTest improved test engineers' performance in every metric.

MuukTest auto generated 738 test cases with *Variations* after the user created 6 journey scenarios with MuukTest *Extension*. The remaining 103 scenarios were created with the *Extension* tool. As a result, all 738 test cases can be executed at any point in time, based on the user's needs—for example, when they send a new build to production.

In addition, it is worth mentioning that the test engineer in e-Quallity was able to use MuukTest from day 1, after a 1 hour onboarding. Industry competitors need more than 3 months of models training to provide any value.

Note: e-Quallity is an expert software testing company and their productivity using traditional testing methods is likely much higher than that of the average software company. **This means that MuukTest will perform even better at the average software company.**

What's Next for MuukTest
The benchmark also provided information to design our roadmap:

- The 103 test cases that were created with the *Extension* tool will be examined to determine how we can automate them with less inputs—improving the automation metrics
- We have shifted our focus in prioritizing our roadmap user stories related to automate test results review. We want to help the user analyze the expected results of a test automatically, which in this benchmark, required a test engineer analysis time that can be automated

The complete benchmark document can be found here.