



Implementing an "automation first" testing strategy

Empower your experts with Virtuoso

iClicker's QA team is composed of in-house test consultants supplemented by a specialist test partner and operates across 3 locations in the US and in India.

Pain point

iClicker needed a test automation solution which fully integrates with agile ways of working and tooling.

The key to iClicker making a successful transition to automated testing was avoiding the baggage that often comes with it. In iClicker's piloting of automation, they experienced real challenges due to complexity, usability, and technical debt. They also had too overhead with custom frameworks.

Challenges

- An over-reliance on technical engineers to automate tests
- Lead time to automation would be too long
- Dynamic nature of iClicker development would create the growing problem of test maintenance



iClicker is a subsidiary of Macmillan learning, providing digital products and services for higher and lifelong education around the globe.

Solution

iClicker needed a test automation solution which fully integrated with agile ways of working and tooling and that was quick to set up and simple to use.

As with many other digital product organizations, iClicker recognized that the strength of their QA strategy was built on their people: dedicated professional testers who displayed the investigative mindset and skills to assure the quality of their software day in, day out. What iClicker needed was to empower this team with an automation solution that helped to free them up to focus on higher value testing.

iClicker regression testing was taking 128 hours to execute manually, which translates to 16 days of effort, to verify that a change hadn't broken anything else in their product before they were able to release. The estimate to automate the same tests with Selenium was 340 hours, and concerns remained over the flakiness of the tests, the burden of test maintenance, and the usability.

Result

- Time needed to create automation was reduced by 88% from 340 hours to just 40 hours
- Time needed to execute automation was reduced by 82% from 2.75 hours to less than 30 mins
- iClicker regression has now reduced from 128 hours to 30 mins
- Cost per manual execution was reduced by 99.2%, from \$1,280 to \$10
- Cost per automated test execution was reduced by 63.6%, from \$27.50 to \$10

Summary

Above and beyond just the time and cost savings Virtuoso provided, iClicker loved how quick and easy it was to get started and to use. The speed and simplicity of getting up and running coupled with the multiple browsers/OS support enabled them to achieve a level of coverage they simply wouldn't have achieved in that short amount of time without using Virtuoso.

Transforming your testing

Implementing an automation first strategy doesn't have to be disruptive. With Virtuoso, you can start automating within minutes. Talk to one of our experts today!

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