CONTINUOUS INTEGRATION TESTING OF THE LARGEST ONLINE MANUFACTURING MARKETPLACE

CASE STUDY

The customer is an online marketplace that connects buyers and sellers of the manufacturing industry

The customer is an online marketplace that connects buyers and sellers of the manufacturing industry using their e-procurement platform. They have helped thousands of global manufacturers earn billions of dollars in new business.

They are the largest online manufacturing marketplace helping sourcing professionals and engineers to quickly and easily locate quality suppliers for CNC Machining, Injection Molding, Metal Stamping, Metal Fabrication, Die Casting and many other processes. Their marketplace is used by some of the world's largest buying organizations like Kimberly-Clark, Bell Helicopter, US Dept. of Defense, NASA and countless smaller ones.

They keep improving their marketplace consistently to ensure that the sourcing process gets better for their users. The marketplace is so complex that it is used by thousands of buyers and suppliers at any point in time and they look for additional features and functionality that will make their life easier. While doing this, they had to ensure that the newer functionalities don't break the existing experience of users.

Zado was chosen as the partner to help them with their automation needs and ensuring quality of the releases.

This means that they need to test their platform to ensure consistent experience for their users, while reducing their efforts and cost to source. They needed a partner who can help them in testing in an ongoing manner as they keep committing newer functionality to the platform.

They looked at a partner to automate their testing needs in such a dynamic and complex environment. Zado was chosen as the partner to help them with their automation needs and ensuring quality of the releases. Zado was chosen for their technical skills and the project management experience that they brought to this project.

PROJECT COMPLEXITY

- Use-cases were not clearly defined for the platform
- We had limited functional knowledge to begin with
- Thousands of test cases to be automated
- Continuous integration testing to be performed, which meant we had to use a continuous integration server to run the tests automatically

OUR ROLE

Zado quickly understood the functionality of the platform. We prepared use cases and matched those use cases with manual test cases before automating them. We created a flow chart for every test case, which is not commonly practiced.
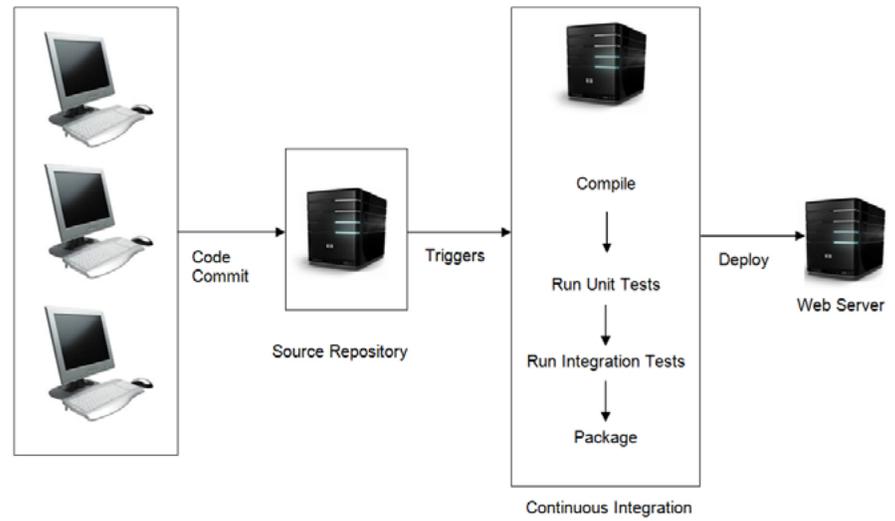
We automated about 1300+ test cases in 30 weeks time to provide regression testing. We used Selenium as the automation tool. In this project, we also used Maven (build management) and Bamboo (Continuous Integration Server) to ensure continuous integration testing.

We helped the customer perform testing on every new build ensuring scalability and maintenance of test scripts – continuous integration testing of new code committed, complete regression support and have identified to setup performance testing as a part of the roadmap.

We took the route of continuous integration as it provides early 'fail fast' feedback on the quality of new changes and ensure that new code integrates well with the existing code, while also providing complete regression coverage.

After 3 months of rigorous evaluation, Zado is a trusted QA partner for our customer

CONTINUOUS INTEGRATION FLOW

For continuous integration testing to be successful, right set of tests have to be automated. The functional knowledge that we gained in the project helped us to identify the right test cases and ensured that continuous integration was performed for every code commit.

OUR ENGAGEMENT– SHORT TERM TO LONG TERM!

We signed up for a 3 months evaluation with the customer, where we shared the risks along with the customer in terms of both costs and efforts. After having proven ourselves, we have moved onto a long-term relationship with the customer.

Time was a premium when we began and it continues to be so as we moved in our relationship. Our knowledge on various automation tools, especially Selenium, allowed us to quickly automate the testing, while improving code coverage.

CURRENT STATUS – TRUSTED QA PARTNER

Our partnership with the customer has improved their confidence levels in releasing newer functionalities in the platform quickly. While we continue to create newer scripts, we are also maintaining existing scripts and providing continuous regression support. We are also moving towards establishing a performance test framework for the platform. Today, we are their trusted QA partner as we continue to help them improve their experience for their users.

ABOUT ZADO

Zado is a provider of test automation solutions with specific focus on web, mobile and cloud applications. Our framework-driven approach to test automation ensures reliability and performance of your applications in diverse environments and complexities.

Our Center of Excellence works towards ensuring the success of every test automation initiative of our customers, irrespective of the stage that they are in – startup, transitional or mature. We have successfully helped startup, ecommerce and Independent Software Vendors with their automation needs. Our goal is to ensure quality of your software using test automation optimally.

We are open to doing POCs and Pilots that prove our credibility. We also have an innovative engagement model, Enhance – Optimize – Transfer (EOT), where we implement automation testing and transition it to your local teams. Our points of intervention after that, will be only towards enhancing the automation framework.

Zado automation frameworks help manual testers write their own test scripts without the necessary automation expertise. This qualifies manual testers into automation testers, providing better economies of scale and faster ROI of your automation efforts.

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