



CASE STUDY

AUTOMATION TESTING OF A CLOUD DEPLOYED WORKFLOW APPLICATION



The customer is a leader in Testing, Inspection and Certification, delivering high quality services to help clients meet international transaction requirements. They had a web application that allowed traders to lodge their requests for certification and compliance and they would be able to see the status of their requests in real time using this application. The idea was to automate the entire certification process and avoid errors due to human intervention.

This was a complex web application with workflows to manage samples, analyze reports, certificates and associated documents. It was hosted on the AWS cloud. The customer wanted a partner who can automate the testing of their web application, which would provide confidence to each of their releases.

They chose Zado because of the technical expertise that they had in automation tools, automation framework, understanding of web applications, cloud deployments and scripting.

ZADO UNDERSTAND THE FUNCTIONAL FLOW OF THE PRODUCT INCLUDING THE VARIOUS COMPONENTS THAT WERE USED IN BUILDING THE APPLICATION.



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PROJECT COMPLEXITY

- Complex workflow engine with no specific tool that would fit in directly to perform automation testing
- Support for multiple platforms and browsers
- Daily builds and insufficient regression coverage
- Predictability and confidence of the releases
- Cost of rework was very high

OUR ROLE

Zado understand the functional flow of the product including the various components that were used in building the application. We created manual test cases to validate the software. We created test cases for validating the RESTful API, checking the GUI, and verifying the middleware components.

We wrote python scripts to validate the components deployed on AWS. We automated the GUI cases using Selenium and implemented a test automation framework. We followed the Enhance – Optimize – Transfer (EOT) model for this work, whereby after automating the testing, we transferred the entire automation activity to the customer.

Automation  test scripts was carried out over a period of 90 days, considering all the complexity and the variety of technologies that was used in the web application.

EOT FLOW

This model helps the customer increase the confidence levels and they don't have to worry about the non-availability of automation skills in-house. Everything related to test cases, automating of test cases, implementation of automation framework are done and optimized by us, before having them passed onto the customers.

OUR ENGAGEMENT

We began with the humongous task of automating a complex work flow based application. We dirtied our hands by understanding the functionality and started creating test cases to validate different components of the web application including the cloud deployment separately. This allowed us to get a clearer picture of the automation framework to be implemented.

Then we went about automating the test cases using Selenium that allowed us to ensure quality of this cloud deployed application.

BENEFITS

- Automated testing of a complex process-oriented work flow application
- Improved test coverage of the application
- Testing of cloud deployment, which is considered a rarity
- Quick return on investment with reduced reworking costs
- Automation testing without in-house expertise; In-house testers remained testers while we handled the programming.

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ABOUT ZADO

Zado Infotech is an Independent Testing Services organization working with some of the most innovative Software Product Companies/ISV and Internet enabled businesses to succeed with their software in the market. Zado Infotech enables the ISV to set up a complete end-to-end Independent verification and validation team with our Rapid Enablement Process.



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