



**Automation Testing
For
US Based Tech Company
(Stock Photography)**

About the Client:

Company is a stock photography agency headquartered in New York City, New York and United States. It maintains a library of millions of royalty-free stock photos, vector graphics, and illustrations, and sizeable video clips for license.

Business needs addressed:

This organization did not have any regression suite. As new features were added, they were tested in an ad hoc fashion. Another challenge was that the company was focused on open source technology stack. This resulted in bits and pieces of tools that really did not integrate well together. Google sheets / Excel sheets were used for test cases, Bugzilla was used for bug tracking and Rally for User stories.

Solution:

- The team started with understanding the business side of the application thoroughly by holding session with the onshore QA team remotely
- TAGS, TFT's zero-coding framework, was mature at that point of time and was used as to create automated test cases
- Started with automating the most valuable tests. This resulted in a quick Smoke Suite that was executed each night. The stakeholders could see the value in first month of engagement itself.
- Built a more complete automated regression suite over a period of time
- The key feature of the project, as the automation suite grew, was failure investigation on regular basis and updating/maintaining the automated test cases
- It was decided at the highest levels that the automation was a key in ensuring that the Company kept on rolling out new features. The CTO of the Company decided to be part of the regular meetings and ensure that all road blocks were promptly addressed

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photography

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Process:

- Initially built an extended team of QA Engineers that were adept in both manual and automation testing. The team members focused on some of the major areas of the Company's web application.
- They interacted with their counterparts and gained complete business knowledge of each area
- An initial set of 1000 test cases were identified for the regression suite. This was based on the MuSCoW (What must, should, could and won't be automated) approach
- They then had the test cases captured in Excel and used XStudio as an automated Test Case management and execution tool
- A separate customized Reporting Portal was used to provide insight to the stakeholders on the current Automation Run status vs historical Automation run
- As company moved to agile methodology, TFT had its engineers stagger their times so that TFT's QA team could have 3-4 hours overlap with Company's developers
- TFT team also joined onshore Sprint Planning, Retrospective and Backlog meetings through Google Hangouts and also communicated with tools like Slack

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Pros:

Over a period of time, Company's production site improved tremendously—

- Quickly got the automation suite off the ground (within a month of taking over). This was a major step forward as it brought some of the nay-sayers on board the outsourcing bandwagon
- The suite was run in Company's night time and the failure investigation and reporting happened before the Company's team came back the next day. This led to drastic change in working methodology of the onshore QA team. They now had access to information as to how good the last release was and what all areas the last release adversely impacted
- The regression was applied after each release / fixes leading to quickly finding the failures
- As company moved to Ruby as the underlying technology, TAGS test cases were translated to Ruby
- As process became more mature, Test Management (including tool, test design and execution) was moved to TestRail

Cons:

- Needed one and sometime two dedicated resources to continuously do failure investigation and take suitable action
- TAGS, the framework used came a full circle as once the company went agile. The QA team moved a full circle from “no-programming framework” to a heavily “code based framework” for writing automated test cases

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