

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

About the Client:

Company is a stock photography agency headquartered in New York, 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:

- Their salesforce team, an ecosystem of its own, is responsible for handling the sales and activation business flows
- In 2019, team decided to develop feature for sales team to create commerce orders from salesforce itself to increase productivity and efficiency as a first step towards moving to CPQ(configure price quote)
- At this point, there was no automated test coverage for any feature in salesforce and everything was manually tested
- The automation test coverage became a necessity for SOX compliance. Also, the team used a third party deployment tool(Gearset), which was a hindrance in running the automated test in CI/CD pipeline

Solution:

- TFT SDET team was on boarded to understand the business needs and the integration between salesforce and client.
- Team worked on devising an automation test strategy for salesforce. This was done to ensure that salesforce releases(summer, spring, winter) have minimal impact on automated tests
- Automation Framework (Puppeteer/jest) was developed for UI tests.
- To have maximum test coverage and with test execution time in consideration, we developed a salesforce API test framework. This enabled us to develop end-to-end tests without interacting with the UI.
- Test tooling was developed to reduce the runtime of the tests from the very start so that it does not become a problem later
- Achieved maximum automation coverage for the order creation feature
- Configured automated test to run in CI/CD pipeline on receiving successful deployment events from gearset



Stock
photography

Stock photography

Process:

- The team of 2 SDETs focused on gaining knowledge of Salesforce systems, business processes and how client and salesforce are integrated. TFT team met with client developers, product owner, sales team and business analysts for the same.
- For test strategy, we decided to create locators in a way that they do not break with salesforce releases. We explored salesforce APIs to accomplish headless testing. We also met with developers to expose API endpoints for custom developed features.
- Test cases were prioritized for UI coverage vs API coverage to gain maximum coverage in a short span of time.
- TFT SDET team met the Gearset team to understand their deployment process and their integration with github. These meetings helped find a way i.e gearset-github event on deployment, to trigger automated tests as part of CI/CD

Pros:

- With automated tests in place running part of CI/CD pipeline the team had more confidence in their releases
- SOX compliance was accomplished
- With salesforce releases, there was no impact on automated tests.
- The test are very stable and had a very high pass rate
- Efficient development due to less dependence on manual testing.
- The team loved the test coverage and now the TFT SDET team is actively working on expanding test coverage in salesforce for CPQ, Advanced approvals and other API integrations.

Cons:

- The salesforce Developer team didn't indulge much in the test development process as a result they were unable to even investigate legit test failures. There was a high dependency on the SDET team.

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