



X-info – Case Study

Double Development Speed of New Features and
Reduce the Testing Costs by 40%

The challenge:

Create an easy maintainable test suite

X-info's software is a dashboard to provide data visualization of manufacturing key figures. One of their customers is the leading automotive manufacturers in Munich. The smart mining solution of X-info enables the management to optimize the output of all assembly lines.

The situation was that X-info performed manually the final acceptance of the dashboard data visualization software with them as the supplier. This required a lot of time with some communication loops. Some test cases were already written in Selenium, but this also cost us a lot of programming effort and tied up a lot of resources for maintenance and enhancement.

X-info was therefore looking for a better solution that is faster and easier to maintain.

About the company

X-info is developing intelligent software solutions for the systematic improvement of efficiency, maintenance and QM processes.

Size of Development Team

15

Industry

Automotive

testup.io was used for

Replace Selenium tests and create a new test suite with testup.io

ROI

Was: 2.5 FTE QA and automate tests
Now: 0.5 FTE QA and Design

The Solution:

Replace Selenium with testup.io

Switching from Selenium to testup.io made the test suite more flexible and much easier to maintain.

Within 6 months, the Thetaris team set up a cloud solution on premise in the customer network and built a test suite for all business functions.

Manage execution delay

Some response times of data analysis reports were a real critical problem for Selenium. Due to the large amount of data, the calculation of some results took longer than a minute. These results were no longer processed by Selenium in time.

The new solution handles very long response times. During visual object recognition, testup.io waits impassively for minutes before evaluating the comparison. Now the automation expert can set timeouts for each assertion easily.

Manage testdata

One of the game changer was to connect a dedicated data snapshot to X-info's test environment. All test case scenarios ran against the same test data source. The test environment was built in a container always before an execution of the test suite started. With this setup all regression tests returned comparable results.

Multiply solution

It was easy to scale the tests to different locations (DE, EN, AUT, CN). Because tests in testup.io can be created in modules, it was possible to create robust test chains that could run against different manufacturing sites. Tests also returned comparable results on stage and production. Only one module, the login process, had to be changed, while the following test cases remained stable.

Analyse results

With the automatically generated visual reports, the customer was able to preview existing and new features and provide X-info with much faster and more detailed feedback early during the development process.

Maintain testsuite

With the solution found maintaining the test suite became natural. After a short introduction all team members could maintain the tests and easily add additional feature tests to the suite.

The Impact:

New releases can be done much faster and the communication with the customer became much easier

The solution installed saved X-info and its customer at least 5 man days for each release.

Since the test cases can be created without coding the developers can now focus on their own tasks while the test can be extended by our designer and our technical writer.

The communication and feedback with the customers became more detailed and project-related as recording summaries can be printed out and presented to the customer for visual inspections:

- Important requirements were confirmed by our customer right after the tests
- With the visual test results, all new features of each software release are documented in detail, which increases the confidence in the product among all parties involved

X-info's customer was happy with the new test automation solution since they get auto generated visual test reports done by testup.io every day. This also improved the communication and feedback between customer's project management and business lines.