



Building test automation for true shift left

Testing that keeps pace with development.

JATO Dynamics was founded in 1984 and provides the world's most timely, accurate and up-to-date information on vehicle specifications, pricing, sales and registrations. As part of a modernisation programme JATO Dynamics decided to redevelop their core vehicle intelligence platform as a web application. They had their own team developing the back end while a 3rd party software house developed the front end.

The Challenges

Developing and testing the new application presented several challenges. They were trying to build the platform from the ground up with no reusable or pre-existing user journeys. The back end and front end were being developed separately which created inevitable issues around handovers and feedback loops. The

frequency and velocity of changes to the back end were affecting the UI and the mobile requirements were completely undefined. Furthermore, time was limited and there weren't many automation skills or any prospect of increasing the size of the team.

The Solutions

By adopting Virtuoso and taking



Automotive business intelligence provider

PAIN POINT: Manual test maintenance overhead for regression testing.

advantage of it's easy to use and intuitive interface, JATO were able to start realising the benefits right away. User flows and wireframes allowed them to begin building automation immediately so that it could run in tandem with development. Testing was able to keep pace with the frequency of changes thanks to Virtuoso's rapid test authoring.

There weren't any defined requirements for testing across mobile, but Virtuoso was still able to execute all authored journeys across mobile devices, providing insights for future development. The shortage of automation skills wasn't a problem either. Virtuoso is

so easy to use that with only minimal training JATO were soon able to take ownership of their own automation. They were able to quickly build their own in-sprint automation with no requirements for frameworks, infrastructure or up-front costs. UI regressions were easily identified using Virtuoso's snapshot feature.

From the beginning of the project JATO was able to achieve true shift-left as 100% of the user journeys were automated before the application was built. Having all of

the test cases authored by Virtuoso's NLP engine means that JATO has dynamic documentation and full version control of the application. They are also able to shift-right by executing future journeys in production.

In Summary

JATO successfully adopted Virtuoso on day 1 to shift testing left by automating full feature testing before any of the application had been built enabling them to release weeks faster.

They went from zero automation to in sprint automation in just two weeks and with only a couple of days onboarding and training, with no need to spend time on frameworks of infrastructure.

With Virtuoso, JATO has improved testing efficiency and coverage by utilising a fully collaborative Quality Assistance platform, that has made testing more accessible, faster and easier, whilst also giving them a blueprint for dynamic web testing success.

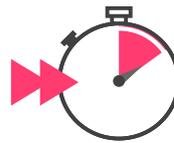
Results

How did JATO's use of Virtuoso translate into numbers?
Let's have a closer look at the key metrics.

0 hours frameworks setup or configuration



5 Minutes - Execution time for all 25 E-2-E user flows



80% Of the user flows executed successfully to the point of application failure needing only minor adjustment



1 Sprint to go from zero automation to full in sprint automation



21 application snapshots delivering iterative automated behavioural insight and visual testing



100% Of in-scope user journey flows automated before the code was written



2 days to onboard the team and setup for success.



42 Hours total authoring time, this includes any post deployment tidy up work



400+ Journey executions - End to end user flows to test functionality



 VIRTUOSO

Transforming your testing process

Having self-maintaining tests is a huge time-saver, but it is only one of many intelligent features in Virtuoso. Find out how you can automate every stage of your testing process with a free demo from one of our experts.

Visit spotqa.com/virtuoso for more information