

Building Test Automation for True Shift-Left

Testing that keeps pace with development.



As part of a modernisation program, 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.

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.

Solutions

By adopting Virtuoso and taking advantage of its easy to use and intuitive interface, JATO was able to start realizing 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 was soon able to take ownership of their own automation.



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.

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. 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 in NLP meant that JATO had dynamic documentation and full control of the application. They are also able to shift-right by executing future journeys in production.

Summary

JATO successfully adopted Virtuoso on day 1

shift testing left by automating full-feature testing before any of the application had been built, enabling them to release weeks faster.

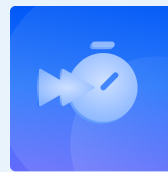
They went from zero automation to in-sprint automation in just two weeks, and with only a couple of days onboarding and training with no need to spend time on frameworks or infrastructure.

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

0 hours
frameworks setup
or configuration



5 minutes
execution time for
all 25 e2e user
flows



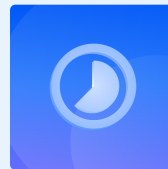
80% of user
flows executed to
the point of app
failure needed
only minor
adjustments



1 sprint to go
from zero
automation to full
automation



42 hours to
author, including
post deployment
tidy-up work



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



2 days to
onboard the team
and set up for
success



21 application
snapshots
delivered iterative
automated
behavioral insight
and visual testing



400+
journey
executions: e2e
user flows to test
functionality



It's your turn to commit to quality

Virtuoso's intelligent automation capabilities are suitable for organizations and enterprises of any size. Get in touch to see how we can help you automate every step of your testing process.

[Visit virtuoso.qa](https://virtuoso.qa) to book your free demo!

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