



the testing consultancy

Test Automation supporting DevOps and Agile

As the world is increasingly reliant on technology, the demand for high-quality software continues to grow. The wide adoption of Agile and DevOps as highly productive methods of delivering innovative applications and services has enabled many organisations to be more responsive at a lower cost. It is common for significant time and budget to be invested in resources to transform development and operations in terms of tooling, training and coaching.

Breaking the bottleneck

The legacy tools and methods of software testing often result in a bottleneck. A recent Computing Research¹ survey showed that 63% of respondents cited Testing/QA as the largest bottleneck to implementing DevOps, slowing down time to market and increasing costs.

Despite all the advancements in software development, software testing has remained dominated by yesterday's tools,

which no longer meet the needs of today's accelerated development processes. Transforming testing for the modern era represents tremendous opportunity for organisations to increase acceleration, reduce risk and lower costs.

Testing is a cross-functional activity that involves the whole team and should be done continuously from the beginning of the project. Key to this is understanding the role of a tester and what type of testing

should be performed for the project at hand. Distinguishing testing tasks for all phases of delivery is also a critical component.

Automated testing is a tenet of DevOps. Tests are generally written up-front before development starts, with agreement between the developer and a user representative. Automated testing enables higher quality results by identifying problems early and reducing manual effort.

¹ https://www.computing.co.uk/digital_assets/634fe325-aa28-41d5-8676-855b06567fe2/CTG-DevOps-Review-2017.pdf

Test automation can make the world of difference to Agile and DevOps methods

These days it is more widely known that Agile and DevOps initiatives have the ability to accelerate the software development process. By introducing test automation as a replacement for legacy testing tools such as Application Lifecycle Management (ALM) and manual testing, the software delivery pipeline can be automated and optimised, and testing bottlenecks will become a thing of the past.

The result is a marked increase in throughput and higher-quality software outcomes.

The expectation on speed to market in the modern era of software development means it is impossible to test everything before every release, even with automated testing.

TTC provides support in reducing your business risk by partnering with you to assess the overall impact to the core user experience and instantly determining if the release candidate has an acceptable level of risk. This is critical for stopping high-risk software from impacting your prospects, customers and partners.

PEOPLE

PROCESS

TECHNOLOGY

Partnering to support the delivery of leading software testing solutions

We are experts in test automation with some of the world's leading automation consultants on our team. Our goal is to enable our clients to select and implement the right automation solutions to suit their individual organisational needs.

We work in partnership with our clients, complementing existing in-house capability and expertise with our own knowledge and experience to ensure our recommended solutions follow best practice and are future-focused. When working with clients, our robust formula ensures a strong outcome:

- **Review** to understand the baseline of your QA practice
- **Strategy** and recommendations highlighting automation tools to support your unique technology and delivery method
- Establish an automation **framework** through design and implementation that supports your entire testing effort for any project, regardless of size or complexity.
- Give advice and guidance, content and review to support a DevOps journey to support business practices

We have expertise across both open-source technologies and commercial platforms such as Tricentis Tosca.



Certified Implementation Partner

Improve developer efficiencies

A partnership with TTC delivers a range of efficiencies:

Elimination of code instability by combining coding and testing into a single activity – we can implement this into your development processes

Write automated tests before writing code based on the acceptance criteria of the requirements to increase development quality

Structure the test suite using the test automation pyramid to organise test automation efforts based on where they provide the greatest feedback and cost benefits.

DevOps is about improving collaboration between development and operations. This broadens the network of people who collaborate to deliver a product, which creates opportunities for the boundaries of testing to expand and nature of testing to evolve.

Test automation is how DevOps is delivered in an Agile world, where early execution of scripts during development and operations leads to improved quality, faster speeds and reduced risk.

Talk to TTC

For more information about test automation, talk to our team in your region today.

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