

HOW NEOLOAD AND PERFECTO CAN PROVIDE A COMPLETE MOBILE END-USER EXPERIENCE

Today so much emphasis is placed on user experience, particularly about performance. Of course, this is especially true with mobile where users expect increased performance from mobile apps as they do from web apps. Furthermore, the mobile user experience is profoundly impacted by device characteristics and network quality, making it difficult for performance testers to accurately replicate bugs in production using conventional testing tools and approaches.

So, what's causing the innovation slow-down? Is it due to the time spent on UX improvement? How can I increase the innovation level in my IT?

The observation is simple. If teams are spending less time on bug fixes, they will have more time to dedicate to innovation. Testing earlier and frequently is one of the keys.

You don't have to wait for the mobile application to start the application testing. You can begin with the automation of your load and performance test once an API/component is available. NeoLoad allows such automation and can be run on a daily basis to test technical tour components utilized by your mobile application. Most of the core defect related to your API/component will be detected early. You then only need to focus on the user experience and the constraints associated with mobile users.

NeoLoad + Real Device Testing

In the real world, many users will access applications simultaneously, each using different devices under various network conditions. To visualize and understand an application's complete mobile user experience, testers must be able to replicate realistic back-end load while measuring the front end via real mobile devices.

NeoLoad integrates with Perfecto's cloud platform so DevOps teams can achieve continuous testing and accelerate the delivery of web, mobile, and IoT apps.

Performance testers can create test scenarios and automate high-value transactions using Perfecto Mobile's vast array of test automation methods and frameworks. They then select real devices needed for testing applications, configuring NeoLoad to create virtual users with specific device profiles. Indeed, many users are looking to access applications simultaneously. Mobile app testers can use NeoLoad to test with millions of virtual users across different mobile signal strengths, network constraints, etc. With the help of its Cloud platform, the tester will be able to generate load from 70+ on-demand locations from 7 different cloud providers with NeoLoad.

NeoLoad & Perfecto: Plug and Play Installation and Configuration

NeoLoad works out of the box with Perfecto as a "plug and play" installed solution. With the Selenium Driver Web, no complementary effort s required, as it measures the UX on mobile/web browsing without any prior intervention in the scenario.

The integration is compatible with both Appium and Selenium scripts supported by Perfecto as well as with cloud scenarios.

NeoLoad has all the features required to generate realistic load against your web & mobile application while also:

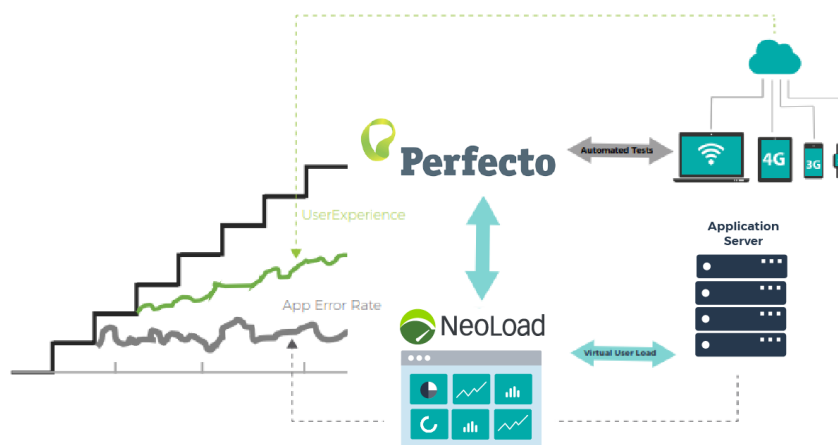
- Recording mobile or traditional web traffic
- Simulating an end user's network conditions during the test (WAN emulation included at no additional cost)
- Monitor architectural behavior
- Generating the load on-premise or from the cloud
- Integrating with mobile device testing solutions such as Perfecto to measure real user experience

Gathering Real Device Metrics

While a load test is running, Perfecto sends device-side metrics to NeoLoad through a REST API. Testers can immediately review how long it takes for a request to go from the device to the application server and back, with the added device rendering time. To go one step further, testers can also see device-specific metrics like CPU, memory and battery usage. These data points are captured in reports that include screenshots, videos, availability and load time measurements. Having all KPIs automatically correlated during a load test means that testers will be able to pinpoint performance issues with the application's front/back ends or infrastructure in a single test. In addition to individual test reporting, a cross-test analysis is also supported. The solution provides interactive charting of all metrics in comparison to another parameter (e.g., mobile page load time vs. mobile CPU load vs. web load time).

Improving Performance Through Real Device Metrics

- Measures end-to-end user experience across full content delivery chain using real devices
- Performs cloud-based load testing on mobile devices
- Completes testing across varying network conditions
- Documentation of comprehensive mobile test report which includes UI elements, device vitals, traffic analysis, etc.
- Reports interactive analysis of KPIs across multiple test runs



About Perfecto Mobile

Perfecto is a cloud-based platform for web, mobile and IoT software testing, empowering enterprises with the tools needed to deliver better digital experiences. Perfecto's users can automate continuous testing throughout the DevOps cycle, using a test lab comprised of real browsers, smart phones and devices under real end-user conditions. More than 3,000 customers, including the top global enterprises across the banking, retail, telecommunications, hospitality and media industries rely on Perfecto to help meet user expectations, boost brand reputations, and establish loyal customers. For more information about Perfecto, visit www.perfecto.io and join our community.

About Neotys

Neotys has nearly 15 years of development investment into NeoLoad – the performance testing platform designed to accelerate Agile and DevOps processes. It's built by engineers who recognized that to achieve their Agile adoption objective; they needed to create a product that could facilitate superior load and performance testing continuously. The result – up to 10x faster test creation and maintenance with NeoLoad.

We genuinely believe that the performance engineer can become the critical application performance partner providing the best testing coverage while respecting the cadence of the Continuous Delivery process. As performance becomes the responsibility of the wider team, continued delivery of an optimized performance testing platform is what drives our work every day.