✈ applitools

Applitools Execution Cloud: Self-Healing Test Infrastructure

Applitools Execution Cloud is the world's first intelligent, self-healing testing platform for open-source test frameworks.

CHALLENGES

As software development teams look for continual ways to streamline their processes and increase efficiency in the testing phase, remote test infrastructure has become a popular choice. While these can provide a convenient and cost-effective way to test applications across a range of devices and platforms, they come with their own set of problems.

For example, traditional clouds are often flaky and unreliable, with tests failing for reasons unrelated to the actual test itself and requires test to be updated even at the slightest change to the UI.

In addition, the execution of tests across parallel devices can be slow, as each browser or device needs to be started and stopped separately. Finally, many test clouds require the use of their own proprietary test creation tools, which can create a lock-in effect, limiting the team's ability to use other tools or services that might better suit their needs.

SOLUTION

The Applitools Execution Cloud is a self-healing, cloud-based testing platform that enables teams to run their existing tests against AI-powered testing infrastructure. This gives engineering and testing teams that use open source frameworks, like Selenium or Cypress, best-in-class capabilities, such as self-healing, that are only currently available in proprietary tools.

Applitools Execution Cloud is able to intelligently heal broken tests as they run, reducing flakiness and execution time. Small changes to the UI, like text, color, or slightly layout changes that would normally fail a selenium test will be able to heal themselves.

CAPABILITIES

Self-Healing Locators
Heal broken tests that fail due to changing or missing locators.

Open-Source Frameworks
Easily integrate and run Selenium or other open source frameworks with any language.

Parallel Test Execution
Run tests against environments in parallel for maximum scalability and pipeline speed.

Full Logs
Access to command step, network, and video logs for each test to make debugging smooth.

Cross Browser & Device Testing
Test against browsers and mobile devices using the Ultrafast Grid.

Local Tunnel Access
Test apps that are running locally or behind a firewall.

KEY BENEFITS

Test At Scale
Run tests in parallel on remote environments for maximum scalability and rapid product delivery.

Reduce Flakiness
Make testing more resilient by reducing failures due to small changes in the UI or the underlying element locators, the main culprit of test flakiness.

Faster Test Execution
Execute tests faster than other traditional test clouds thanks to an optimized SDK and cloud infrastructure

Easier Set Up
Running tests against the Execution Cloud simplifies infrastructure set-up during testing. No need to run the test once with a local driver.