How Dashlane Achieved 50% Faster Testing with HyperExecute

Success Metrics

50%
Faster Test Execution

0%
Flaky Tests

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Introduction

Dashlane, a global leader in digital security, sought a robust solution to modernize its testing processes and align with its shift-left strategy. Managing an in-house testing infrastructure proved resource-intensive, prompting the team to explore external solutions. By adopting TestMu AI's HyperExecute, Dashlane accelerated test execution, reduced flaky tests, and optimized workflows, enabling secure, faster, and more reliable software delivery.

About Dashlane

Dashlane's mission is to make security simple for millions of organizations and their people. Dashlane empowers businesses of every size to protect company and employee data while helping everyone easily log in to the accounts they need anytime, anywhere. Over 17 million users and 20,000 businesses in 180 countries use Dashlane for a faster, simpler, and more secure internet.

At a glance

Industry :

SaaS

Challenge :
Managing an in-house testing setup proved resource-intensive, limiting scalability and efficiency.

Location :
Paris, Lisbon & New York

Key Highlight :
With TestMu AI, Dashlane achieved 50% faster test execution, near-zero flaky tests, and seamless integration for shift-left strategies.

Solution Used :
Manual Testing ⎋
HyperExecute ⎋
Visual Regression Cloud ⎋

Challenge: Managing In-House Testing Infrastructure

Dashlane's quality engineering team, with 40 dedicated engineers, initially built an in-house testing infrastructure to support their needs. However, maintaining this setup demanded substantial time and resources. While initially hesitant about third-party platforms, they soon recognized that adopting an external testing infrastructure could streamline their workflow, conserve resources, and focus on more strategic priorities.

With plans to adopt shift left architecture, they introduced UI testing in the development process, Dashlane created a pipeline that included smoke tests for every commit, regression tests for every merge to master, and multi-browser tests during nightly builds. Selecting a tool that minimized maintenance was crucial to achieving these objectives efficiently.

Evaluating Solutions: Dashlane's Search for Excellence

Dashlane embarked on a journey to find a testing solution that could meet their growing demands and streamline their operations. They outlined several requirements, including SSL capabilities, automation support, mobile platform and real device compatibility, parallel test execution, Cypress integration, visual regression support, exceptional customer service, and cost-effectiveness.

The team needed a test orchestration platform capable of enhancing testing speed, reducing interruptions for developers, and enabling a smooth shift-left transition. After an extensive benchmarking process that assessed performance, cost, capabilities, stability, and support, TestMu AI's HyperExecute platform emerged as the top choice.

The performance of individual tests on HyperExecute took nearly half the time compared to their local test infrastructure. Also, it drastically reduced the number of flaky tests thanks to the sanitized infrastructure. Another great benefit was the prompt and reliable customer support.
Dashlane decided to go ahead with TestMu AI's HyperExecute as it outperformed their in-house setup as well as the alternatives they had put to test.

What Happened After Dashlane Adopted HyperExecute

Dashlane's journey with TestMu AI showcases a progressive integration of TestMu AI's capabilities to meet growing testing needs. In 2020, they began with TestMu AI's Manual Testing on Live, leveraging parallel sessions to streamline their workflows. By 2023, Dashlane expanded their HyperExecute capacity for parallel sessions by 15X, ensuring they could handle increasing testing demands effectively. In 2024, Dashlane introduced SmartUI for Visual Regression Testing, capturing thousands of screenshots to maintain a consistent user interface across browsers and devices.

Dashlane fully utilized their allocated parallels on HyperExecute and regularly executed a large number of tests, reflecting consistent and extensive test activity. This systematic expansion allowed Dashlane to execute more parallel tests, adopt shift-left strategies, and incorporate visual regression, all while accelerating release cycles and minimizing developer friction.

Image Source : Microsoft Future Ready Event

"

 LambdaTest (Now TestMu AI) **is creating that next level of efficiency** around test automation so that people can actually focus on testing versus test orchestration."

Satya Nadella, CEO, Microsoft

Impact of HyperExecute on Dashlane's Testing Strategy

After adopting HyperExecute, Dashlane achieved the following:

- **Accelerated Test Execution:** Dashlane discovered that HyperExecute could significantly cut down their test execution time. For example, HyperExecute could run about 70 test cases in 40 seconds, whereas their previous internal infrastructure took about 80 seconds.

- **Eliminating Flaky Tests:** A survey published in October 2021 shows that flaky tests with inconsistent results are a common issue even for tech giants like Google and Microsoft, where flaky rates reach 41% and 26%, respectively. By transitioning to HyperExecute, Dashlane achieved a near-zero flaky test rate, thanks to TestMu AI's reliable and well-maintained cloud infrastructure.

- **Enhanced Data Visibility:** HyperExecute's dashboard collects all the test data, saving Dashlane hours of gathering logs and data from multiple sources. Automated reports are easily generated and shared with a single click, making collaboration efficient.

- **Exceptional Customer Support:** From trial to post-integration, TestMu AI's support team was a reliable partner, consistently quick to resolve issues and available for direct communication on Slack. This exceptional support allowed Dashlane's team to focus on their testing strategy without interruptions.

- **Results and Key Benefits:** By partnering with TestMu AI, Dashlane found a reliable and scalable solution in HyperExecute. The key outcomes included:

- 50% faster test execution time
- Nearly 0% of flaky tests due to infrastructure stability
- Best in industry customer service
- Infrastructure on demand
- Properly sanitized and new machine every time to run tests at ease

A Scalable Testing Solution for Dashlane's Growth

Dashlane's journey with TestMu AI showcases how the right testing infrastructure can enhance both productivity and product quality, positioning them to deliver a secure, reliable service to users worldwide.

About TestMu AI

TestMu AI (Formerly LambdaTest) is a fully autonomous agentic quality engineering platform that empowers teams to test intelligently, smarter, and ship faster. Over 10,000+ customers and 2 million+ users across 132+ countries rely on TestMu AI for their testing needs.

1.2 Bn+ Tests

2M+ Users

10K+ Enterprises

132+ Countires

Exploratory Testing

Enhance web and app quality to ensure seamless user experience with real-time, live, exploratory testing on 10,000+ devices.

KaneAI

Boost testing efficiency with an AI platform that uses natural language to create, debug and evolve tests.

Test Manager

Streamline test creation, management, & reporting for improved efficiency with AI - native unified Test Manager.

Automation Cloud

Accelerate product releases with secure, scalable, end-to-end test automation in the cloud.

Real Device Cloud

Test on 10,000+ real Android and iOS devices, and 3000+ browser combination cutting costs while ensuring compatibility.

HyperExecute

Accelerate testing speed by 70% with AI-Native orchestration for faster digital transformation.

Accessibility Testing

Ensure inclusive, accessible websites with TestMu AI's manual and automated Accessibility Testing tool.

Visual UI Regression

Achieve UI perfection quickly with AI-Native visual regression testing across all platforms.

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