TestMu AI Formerly LAMBDATEST | **snap** one™

Snap One Accelerates Test Execution by 50% With TestMu AI (Formerly LambdaTest)

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Introduction

Snap One faced challenges with unreliable test execution, complex configurations, and insufficient analytics in their testing process. To streamline operations, enhance cross-platform testing, and accelerate product delivery, they sought a strong solution.

Turning to TestMu AI's advanced features like HyperExecute, real device cloud, and AI-driven insights, Snap One achieved faster, stable testing and improved their development agility significantly.

About Snap One

Snap One provides smart home and connected living solutions, including networking, A/V distribution, home automation, and security products. With nearly 20 years of expertise, Snap One delivers innovative, user-centric solutions that enhance home and commercial spaces worldwide. Focused on quality and innovation, they aim to make connected living seamless and efficient for all customers.

At a glance

Industry :

Computers or Electronic Manufacturing

Challenge :

Snap One faced unreliable test execution, frequent test flakiness, and complex configurations, slowing their processes and limiting test accuracy across platforms.

Location :

Charlotte, NC

Key Highlight :

With TestMu AI, Snap One achieved 50% faster iOS test execution, 23% quicker cross-browser testing, and streamlined workflows with AI-driven insights, improving speed and quality significantly.

Solution Used :

Automation Testing Cloud ⟐
Native App Automation ⟐
HyperExecute ⟐
SmartUI - Visual UI Testing ⟐
KaneAI ⟐
Real Device Cloud ⟐

Overcoming Testing Challenges: How Snap One Found Stability and Speed with TestMu AI

Snap One had been using another solution for their end-to-end (E2E) testing, but their testing team increasingly encountered intermittent challenges that hindered their progress.

Test flakiness became a persistent problem. A significant number of tests failed inconsistently, even when no code changes had been made. This inconsistency led to confusion and time-consuming troubleshooting, pulling the team away from more valuable work. Snap One's testing processes were becoming slower, and the reporting and analytics tools they relied on were not providing the level of clarity they needed to diagnose and fix issues effectively.

Additionally, Snap One required a testing platform that would integrate smoothly with their behavior-driven development (BDD) processes. With Jenkins and GitHub forming the backbone of their CI/CD pipeline, the team needed smooth integration to keep the flow of collaboration uninterrupted.

Cross-browser testing for both iOS and Android became increasingly important as Snap One's range of products grew. Their problems got worse by the complex nature of setting up their Webdriver IO configuration, thus they required a more straightforward and expandable solution.

The search for a new testing partner began. Snap One wanted more than just reliability—they needed a partner who could accelerate their testing process, provide advanced analytics, and offer easy navigation to avoid the inefficiencies they faced.
This is when they found TestMu AI

A Transformational Shift: How TestMu AI Empowered Snap One's Testing Journey

When Snap One made the decision to shift from another solution to TestMu AI, they were in search of a platform that could meet their complex demands and go beyond just providing functional test environments.

Eliminating Test Flakiness with TestMu AI Test Insights

Snap One previously struggled with frequent, intermittent test failures, causing time-consuming troubleshooting that diverted focus from critical tasks. TestMu AI's Test Insights provided unparalleled stability, leveraging advanced analytics to identify and address flaky tests proactively. Snap One's team was able to remove test variability, streamline procedures, and increase productivity by utilizing TestMu AI's dependable infrastructure.

Enhanced App Testing on 5000+ iOS and Android

As Snap One's product offerings expanded, cross-browser testing on both iOS and Android became critical. Testing on real devices has been a priority, with more devices like the iPhone 15 added to handle high testing demands. This helped improve testing accuracy and reduced problems specific to devices, especially with iOS 17. Also automation on real devices increased as more device options became available, improving test coverage and accuracy for native app automation.

Advanced AI-Driven Analytics with Root Cause Analysis (RCA)

A standout benefit for Snap One was TestMu AI's comprehensive AI-driven analytics, particularly the inclusion of root cause analysis (RCA). With highly customizable reports that offered deep insights, Snap One could pinpoint the causes of test failures faster than ever before. This detailed reporting empowered the team to streamline RCA efforts, significantly speeding up their bug-fixing processes and enhancing their overall test efficiency.

Scaling Testing Efforts: Snap One's Strategic Use of TestMu AI Products

Snap One leveraged a combination of TestMu AI products to scale and optimize their testing processes, accelerating test execution and improving quality.

For web automation, Snap One ran multiple parallel sessions to test their web applications across multiple environments simultaneously, ensuring fast and thorough automation. 26.5k tests run in the last 30 days with an average of 600 tests per day, showcasing a strong automation framework.

In mobile app testing, Snap One again used multiple parallel sessions for native app automation. This approach significantly reduced testing time while maintaining consistent quality across iOS and Android devices.

With HyperExecute, Snap One was able to run a few parallel sessions, drastically reducing test execution time and enabling faster code deployments, making their development process more agile.

With TestMu AI, Snap One has leveraged parallel testing effectively, running up to 10 web and 10 mobile tests concurrently, reducing overall testing time and accelerating release cycles.

Snap One is also exploring KaneAI (in private beta), KaneAI is an advanced AI-powered testing assistant designed to revolutionize software testing processes. By leveraging modern Large Language Models (LLMs), KaneAI enables users to create, debug, and evolve end-to-end tests using natural language inputs, significantly simplifying the testing workflow.

By adopting KaneAI, Snap One positions itself at the forefront of testing innovation, aligning with the latest advancements in AI-driven quality assurance.

These integrated solutions allowed Snap One to speed up their testing efforts, improve quality, and scale efficiently across their growing product line.
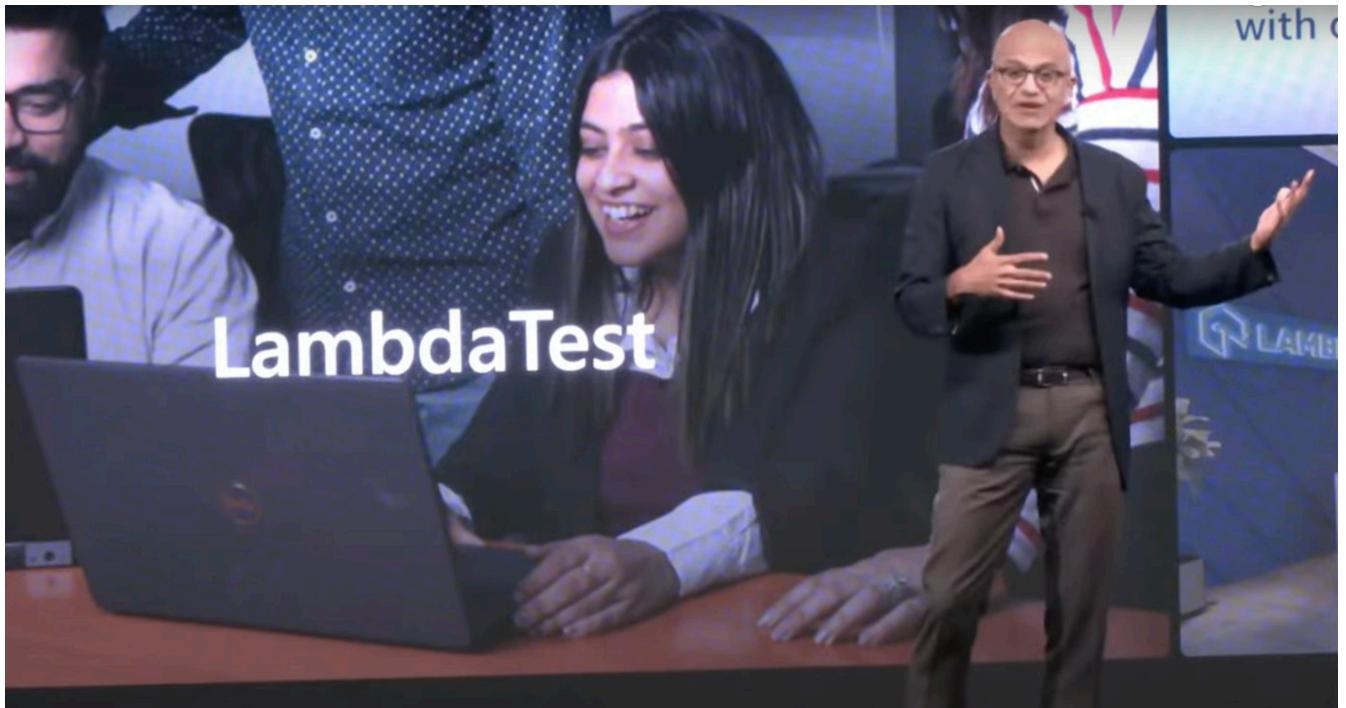
Image Source : Microsoft Future Ready Event

"

 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

The Impact of TestMu AI on Snap One's Testing Efficiency

Switching to TestMu AI was a game-changer for Snap One, enabling faster and more reliable testing. By leveraging TestMu AI's advanced infrastructure, Snap One achieved significant improvements in their testing process, speeding up test execution and enhancing product quality.

One of the biggest wins was a 50% reduction in iOS test execution time, allowing Snap One to roll out updates and features much faster. The platform also provided 23% time savings for cross-browser testing on Chrome and Mozilla, optimizing workflows for greater efficiency.

TestMu AI's AI-powered analytics became essential in identifying bottlenecks and streamlining the testing strategy. With root cause analysis (RCA) capabilities, Snap One quickly diagnosed issues, improving bug resolution speed and overall test efficiency.

Additionally, Snap One benefited from seamless functionality across 5000+ browsers and geolocations, ensuring consistent user experience worldwide. By using HyperExecute, they achieved faster testing, running multiple tests in parallel and reducing validation time for new builds.

Overall, TestMu AI helped Snap One accelerate their testing processes, improve quality, and enhance development agility.

Seamless BDD Integration and Simplified WebDriver IO Configuration with TestMu AI

Snap One's reliance on behavior-driven development (BDD) using Jenkins and GitHub required smooth integration with their CI/CD pipeline, which TestMu AI delivered effortlessly, ensuring uninterrupted collaboration. Additionally, TestMu AI's intuitive interface and clear documentation significantly simplified the time-intensive task of configuring WebDriver IO, enabling quick and efficient setup of automated testing environments.

Accelerated Testing with HyperExecute - Next Gen Testing Platform

HyperExecute is an AI-powered test execution platform developed by TestMu AI, designed to accelerate test execution by up to 70% compared to traditional test grids. It offers intelligent test orchestration, real-time console and execution logs, automatic report generation, and supports multiple operating systems and programming languages. HyperExecute enables scalable, reliable, and secure enterprise-grade testing, allowing teams to focus on crafting test cases while the platform efficiently manages execution.

Speed was a top priority for Snap One's testing team, and TestMu AI's HyperExecute delivered it in a big way. With faster test execution speed, Snap One's development team was able to run tests in parallel, cutting down on testing time and allowing them to release new updates rapidly while maintaining quality.

By addressing every pain point and introducing new efficiencies, TestMu AI became an essential partner in Snap One's pursuit of high-quality, high-speed software testing.

What's Next for Snap One

Snap One is actively exploring new tools like Kane AI to enhance testing efficiency, while also showing interest in Accessibility Testing and Smart UI Testing to improve user experience across platforms.

Looking ahead to 2024, Snap One is focused on scaling parallel testing and regression testing to maintain consistent app performance. Regular collaboration with TestMu AI ensures their testing needs are met, supporting continued success and innovation.

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.

TestMu AI
Formerly LAMBDATEST

📞 +1 (866)-430-7087

🌐 www.testmu.ai

✉ sales@testmu.ai

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