

Sauce AI for Test Authoring

Eliminate the Testing Bottleneck and Reclaim 30% of Your Engineering Capacity

THE CHALLENGE:

The Innovation Drain

Traditional test scripting is a slow, brittle process that forces your most expensive engineering resources to choose between fixing broken scripts and delivering new features. When your senior developers need to look after fragile selectors instead of shipping code, your product roadmap suffers.

- ⊗ **Engineering Inefficiency:** Senior developers are routinely pulled away from the product roadmap to babysit fragile test scripts.
- ⊗ **The Script-Repair Loop:** UI updates and evolving flows trigger constant rework and false positives, SDETs get stuck in a fix-it cycle instead of automating new work, slowing down the CI/CD pipeline.
- ⊗ **The Skills Gap:** Technical barriers prevent QA and citizen developers from contributing, creating a total dependency on overstretched engineers.

THE SOLUTION:

AI-Driven Test Authoring

Sauce AI for Test Authoring is an AI agent specifically designed to eliminate bottlenecks across the testing lifecycle. Embedded directly into the Sauce Labs platform, it serves as a foundational component of the Sauce AI ecosystem, working in tandem with the full suite of Sauce AI agents to deliver AI-driven quality. By focusing on the user journey rather than the underlying code, the agent interacts with your application like a human to generate durable, high-fidelity tests that survive UI evolutions.

Drawing on nearly two decades of quality expertise and insights, we are transforming manual scripting to intent-based automation.

- ⊙ **Conversational Interface:** By interacting with your application like a real user, the AI generates resilient tests that remain stable as UI evolves.
- ⊙ **Eliminating the Script-Repair Loop:** Instead of chasing broken selectors, your team focuses on high-level strategy. Sauce AI for Test Authoring ensures a simple UI change doesn't derail your entire release cycle.

The Path to Quality Intelligence

1 Define the Journey

Run through a standard end-to-end user flow. The AI captures the business logic and intent behind every click and swipe.

2 Generate with Context

Sauce AI for Test Authoring translates your test intent into clean, framework-agnostic test steps that understand the context of your UI.

3 Scale and Self-Heal*

Deploy your tests across platforms (iOS, Android, Web) and let self-healing maintain your tests as you grow.

A Streamlined Path to Quality

Author Define journeys through an intuitive, no-code interface using user intent.	Execute Run tests across the Sauce Labs device cloud or your own environment.	Scale Review and edit generated scripts for full control with a human-in-the-middle approach. Confidently scale with consistent coverage across web, Android, and iOS.
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Key Capabilities

AI-Driven Test Generation & Control

AI-Driven, No-Code Test Creation: Instantly create tests for Android, iOS, and Web without coding. Empower all team members to generate comprehensive test cases in minutes, not days.
IDE-Native & MCP Test Authoring: Author tests in VS Code or IntelliJ against live Sauce real or virtual devices, with code generated ready to run on Sauce Labs. Or connect your AI coding assistant through the hosted Sauce Labs MCP server to generate, run, and schedule tests, and pull back screenshots and logs, with nothing to install.
Unified Cross-Platform Support: Author a test once and run it across multiple platforms, including real devices, emulators, and simulators, to maximize coverage without duplicated effort. Covers complex interactions, including long press, right click, key press, container scroll, iframe, and shadow DOM, so more of your app is testable without manual workarounds.
Full Control & Governance: Review and edit any generated step, add custom assertions, and see the exact element each step clicked, typed into, or verified. Fix a step or adjust your test intent, and only the affected steps regenerate. Your fixes carry into the next run and future generations, so the same issue never needs fixing twice. Download scripts in your language of choice for local use, version control, and your own Git repositories.
Test Data Variables: Store test data and credentials as reusable variables instead of hardcoding them into prompts. Update a value once, and every test that uses it picks up the change, which cuts maintenance by keeping all your dynamic test data in one place.

Platform & Management Support

Test Suites: Organize test cases into logical suites, allowing teams to focus on specific feature sets or product areas.
Scheduling & Automation: Trigger tests at specific time intervals directly through the UI or via CI/CD, increasing velocity through consistent, hands-free execution.
Reporting & Insights: Access failure analysis, video recordings, and screenshots for every run through Sauce AI for Insights.

Security & Connectivity

Secure Tunnel Support: Use Sauce Connect™ Proxy (V5.0) for TLS-encrypted connections to applications behind firewalls or within VPCs.
Compliance & Privacy: SOC2 Type II compliant infrastructure with SSO. ISO 42001 certified.
Sensitive Data Guardrail: Test data is kept out of AI prompts, and a guardrail blocks high-risk data like email addresses and payment card numbers before it reaches a test

Reclaim Your Roadmap

Stop spending time fixing the past and start building the future. Sauce AI for Test Authoring transforms your testing from a bottleneck into a competitive advantage.

LEGACY METHODS	WITH SAUCE AI FOR TEST AUTHORING
⊗ Diverted Focus Engineers trapped in script repair	⊙ Innovation First Engineers focused on core features
⊗ Brittle Maintenance High-touch, manual updates	⊙ Self-Healing* Low-touch maintenance
⊗ Siloed Quality SDETs are the only contributors	⊙ Democratized Quality Empowered manual & citizen developers
⊗ Delayed Releases Stalled by flaky test results	⊙ Accelerated Velocity Powered by stable, intent-based tests

Ready to scale your testing efforts without increasing headcount?

at SauceLabs.com

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