

# How to get AI-written API test scripts and run them in minutes!

Question: What is **API testing**?

Answer: It's the process of validating that the **APIs** (Application Programming Interfaces) work as expected. APIs are the backbone of modern software architecture, allowing communication between different software components and systems. Testing these APIs finds out if the data is exchanged correctly, securely and quickly between services.

Question: What is **API Testing Automation**?

Answer: It means using tools and scripts to perform the validations automatically, instead of manually testing each API endpoint. Such automation speeds up the testing process, improves accuracy and allows for frequent and consistent testing. API testing automation is needed in Agile and DevOps environments.

Question: What are the **Pain points of testing APIs**?

Answer: The pain points of API testing include:

- **Complexity:** Many APIs have complicated workflows and dependencies that make manual testing cumbersome and error prone.
- **Time-Consuming:** Manually writing and maintaining test scripts for numerous API endpoints is labor-intensive. Note that some APIs are frequently updated, needing re-testing after every update.
- **Scaling:** As the number of APIs under test grows, scheduling more time for manual testing becomes challenging.
- **Skills requirement:** Writing effective API tests needs both technical skills and a deep understanding of the specific API's quality attributes.

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# Introducing KushoAI (*AI-based Tool for End-to-End API Test Automation*)



Meet [\*\*KushoAI\*\*](#) - the revolutionary AI-based tool that's transforming the way we approach API test automation. Traditional API testing can be a painstaking and time-consuming process, but KushoAI changes all that by using the power of artificial intelligence.

Question: How does **KushoAI** work?

Answer: It uses advanced AI algorithms to understand the context of your API, analyzing its endpoints, parameters and potential use cases. Within minutes, KushoAI can **plan and generate exhaustive test scenarios** that cover possible interactions with your API.

But KushoAI doesn't just write tests. With a single click, you can **run these AI-generated tests** on your API. Once the tests are complete, KushoAI provides AI-analyzed test results, giving you instant insights into the functionality, and performance of your API.

KushoAI is more than just a testing tool; it greatly reduces the effort required for API testing.

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# Benefits of Using KushoAI

- ✓ **No implementation effort:** KushoAI requires zero setup hassle - no integrations or permissions are needed! Simply provide your API specifications, whether they're Postman Collections, OpenAPI specs, cURL commands, or even just basic API information, and KushoAI will take care of the rest by **generating exhaustive tests automatically**.
- ✓ **Fast test generation:** Time is of the essence in software testing. KushoAI speeds up the process by planning for possible scenarios and writing the corresponding test code instantly. **Within minutes**, you can have hundreds of ready-to-run tests, custom-written specifically for your API.
- ✓ **AI-generated assertions:** Quality is key, and KushoAI helps achieve it by using advanced AI large language models (LLM) to **generate detailed assertions** for each test scenario. These assertions help you validate the accuracy, reliability and performance of your API with just a single click.
- ✓ **User-friendly interface:** KushoAI is designed with the user in mind. Its intuitive interface allows you to quickly add inputs, run tests for groups of APIs, make edits across multiple tests with a **single click**, and perform many other actions effortlessly.

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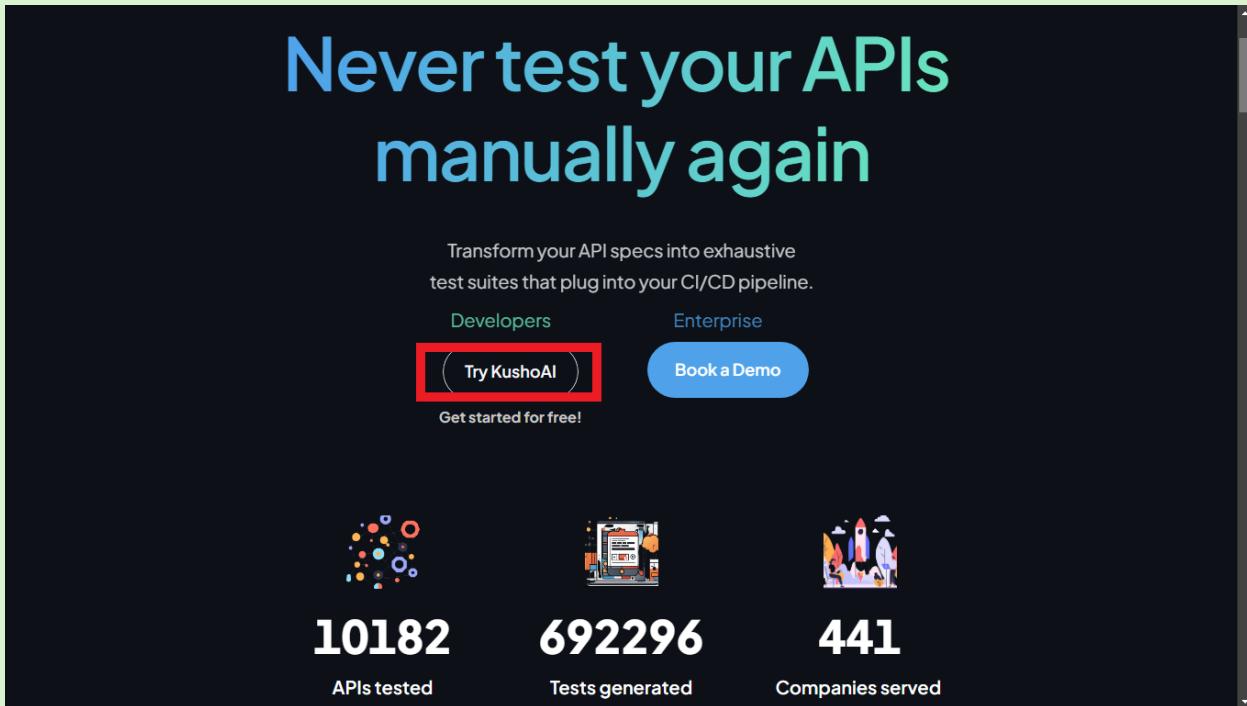
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# KushoAI Web App and Kusho Browser Extension

KushoAI web app is the **API testing platform**. Kusho browser extension is used for making **API calls** from Kusho's webapp. Kusho browser extension is needed to run API tests.



# Step 1: Add API Inputs to KushoAI

You can add API Inputs to KushoAI by giving basic API details, importing OpenAPI specs, importing a Postman Collection or via a cURL command.

The screenshot shows the KushoAI platform's 'Test Suites' section. On the left, there's a sidebar with links: Home, Test Suites (which is selected and highlighted in green), Groups, Test Suite Generation Status, Manage Workspace, CI/CD, and E2E Test Suites. At the top right, there's a 'My Workspace' dropdown and a user profile icon. The main area has a dark background with a central modal window titled 'Add API inputs for Kusho using any of the options below'. The modal is divided into sections: 'API' (with 'Enter basic details about your API like HTTP method, URL, query parameters etc.'), 'Import via OpenAPI Specification JSON' (with 'Import OpenAPI Specification'), 'Import via Postman Collection (v2.1) JSON' (with 'Import Postman Collection'), and 'Create test suites by entering a cURL command' (with 'Import cURL Command'). Below the modal, a note says 'Kusho uses these inputs to instantly generate tests for your APIs'. The bottom left of the screen shows links for Documentation, Slack, and Email Support.

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# Step 2: KushoAI Test Generation

Based on the API input provided by you, KushoAI generates exhaustive tests automatically and provides you with the executable code (which you can edit).

The screenshot shows the KushoAI platform interface for generating tests for a User API. The left sidebar includes links for Home, Test Suites (selected), Groups, Test Suite Generation Status, Manage Workspace, CI/CD, and E2E Test Suites. The main area displays a summary of generated tests: All Tests (65), Executed (0), Passed (0), and Failed (0). A note says, "These are the tests generated by Kusho for your API. You can run them right from the browser on this page." Below this are filter options for Functional, Security, and Performance tests, and a section for filtering by test types: Positive, Negative, Missing fields, Null/zero/empty value, Invalid value, Data type, Overflow, Other, and Semantic. The main table lists individual test cases with columns for Description, Run button, Status Code, Assertions, and Actions. The first few rows include: "Test with all valid inputs as specified in API information" (Positive, MISSING FIELDS), "Test with wrong HTTP method" (Negative), "Test with given field missing - json\_body.name" (Negative, MISSING FIELDS), "Test with valid input for json\_body.name" (Positive), and "Test with empty string for json\_body.name" (Negative, NULL/ZERO/EMPTY VALUE). Buttons for Variables, Workbench, Generate Report, Add Tests using Payload, JS Pre Run Script, and Add Tests using AI are also present.

# Step 3: KushoAI Test Run

Out of all the tests in the Test Suite, you can Filter Tests By Types. Click RUN button to run a single test, or click RUN ALL to run all tests.

The screenshot shows the KushoAI platform interface for a 'User API'. The left sidebar includes links for Home, Test Suites (which is selected), Groups, Test Suite Generation Status, Manage Workspace, CI/CD, and E2E Test Suites. The main area displays a summary of test counts: All Tests (64), Executed (3), Passed (1), and Failed (0). Below this, a table lists individual test cases with columns for Description, RUN button, Details, Status Code, Assertions, and Actions. One specific test case, 'Test with all valid inputs as specified in API information', is highlighted with a red box around its 'Passed' status code (200).

DESCRIPTION	RUN	Details	STATUS CODE	ASSERTIONS	ACTIONS
Test with all valid inputs as specified in API information <small>POSITIVE</small>	RUN	Details	200	Passed	
Test with wrong HTTP method	RUN	Details			
Test with given field missing - json_body.name <small>NEGATIVE MISSING FIELDS</small>	RUN	Details			
Test with empty string for json_body.name <small>NEGATIVE NULL/ZERO/EMPTY VALUE</small>	RUN	Details			
Test with null value for json_body.name <small>NEGATIVE NULL/ZERO/EMPTY VALUE</small>	RUN	Details			
Test with all caps string for json_body.name <small>NEGATIVE INVALID VALUE</small>	RUN	Details			

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# Key Features of KushoAI

The valuable features of KushoAI include:

- **Fast test generation:** KushoAI refines the testing process by planning for every possible scenario and writing the corresponding test code instantly. Within minutes, you can have hundreds of ready-to-run tests custom-written specifically for your API.
- **AI-generated assertions:** Using the power of large language models (LLMs), KushoAI creates detailed assertions for each test scenario. As needed, you can easily validate the accuracy, reliability and performance of your API responses.
- **User-friendly experience:** KushoAI's user interface is designed to make your testing experience seamless. Easily add inputs, run tests for multiple APIs, and edit numerous tests at once - all with minimal effort. KushoAI's UI puts you in control.
- **CI/CD integration:** Seamlessly integrate KushoAI into your CI/CD pipelines, allowing for continuous testing and delivery without disrupting your workflow.
- **Team-level features:** KushoAI offers powerful team-level features, including groups, workspaces, and detailed reports. These tools allow your entire team to be aligned and productive, enabling collaborative testing.

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# Next Steps

Ready to experience the future of API testing? Visit the KushoAI website today and start automating your API testing with ease. Whether you're looking to save time, increase accuracy, or streamline your processes, KushoAI has the needed features available. Take the next step towards efficient and reliable API testing:

**[Sign up and start using KushoAI now!](#)**



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