Here are some popular API testing frameworks for automation:

Postman: Postman is one of the most widely used API testing tools. It provides a user-friendly interface for creating, managing, and executing API tests. Postman supports various HTTP methods, authentication methods, and environments. It also offers features like automated testing, scripting with JavaScript, and integration with CI/CD pipelines.

RestAssured: RestAssured is a Java-based library for API testing, particularly popular in the Java ecosystem. It provides a fluent API for writing test cases and assertions for RESTful APIs. RestAssured integrates well with popular testing frameworks like JUnit and TestNG, making it suitable for automated testing within Java projects.

Karate: Karate is an open-source framework for API testing and automation. It's built on top of Cucumber, allowing you to write API tests in Gherkin syntax. Karate supports HTTP, WebSockets, and other protocols, and it provides features like data-driven testing, parallel execution, and HTML reports.

HTTPie: HTTPie is a command-line HTTP client that can also be used for API testing. It provides a simple syntax for making HTTP requests and supports features like JSON/XML parsing, authentication, and plugins. HTTPie is particularly useful for quick ad-hoc API testing from the command line.

SoapUI: SoapUI is a comprehensive API testing tool that supports both REST and SOAP APIs. It offers a graphical interface for designing test cases, assertions, and data-driven testing. SoapUI also provides features like security testing, performance testing, and integration with CI/CD pipelines.

pytest + requests: If you prefer Python, you can use pytest along with the requests library for API testing. Pytest is a popular testing framework in the Python ecosystem, and requests is a simple and powerful library for making HTTP requests. Together, they provide a flexible and easy-to-use framework for writing and executing API tests in Python.

These are just a few examples of API testing frameworks available. Depending on your project requirements, programming language preferences, and existing tooling, you may choose one of these frameworks for your API automation needs.