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API Testing: Postman vs Rest-Assured

<u>Comparison between Postman and Rest-Assured, two popular tools used for API testing:</u>

Created By: Naveen Automation Labs

https://www.linkedin.com/in/naveenkhunteta/

Feature	Postman 💋	Rest-Assured
Type of Tool	An application with a user- friendly interface for API testing.	A Java DSL library used for testing RESTful APIs in code.
Primary Use	Manual and Automated API Testing	Automated API Testing in Java-based environments
Language	Independent of programming languages; uses its own scripting (Javascript).	Java
Ease of Learning	Easy to start with due to its GUI.	Requires knowledge of Java and understanding of library methods.
Test Creation	Tests are created using a graphical interface and scripting.	Tests are written in Java code, using BDD-style or traditional style.
Integration with Code	Not directly integrated with code; more standalone.	Tightly integrated with the code; can be part of the codebase.

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Environment Support	Has built-in support for environment variables and easy switching.	Environment setup must be coded.
Parameterization	Supports parameterization through its interface and scripting.	Supports parameterization using Java code.
CI/CD Integration	Can integrate with CI/CD pipelines via Newman (command-line runner).	Can be integrated as part of the regular build process.
Reporting	Built-in reporting and supports various formats with additional tools.	Limited built-in reporting, but can use Java reporting tools.
Mock Servers, Monitors, etc.	Provides features like mock servers, monitors, etc.	Does not provide these features natively; relies on external tools.
Community and Support	Large community and extensive documentation.	Good community support, especially in the Java ecosystem.
Data-Driven Testing	Supports data-driven testing through external data files.	Supports data-driven testing using Java constructs.
Authentication Support	Supports various authentication mechanisms with easy setup.	Supports authentication but requires manual coding.

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Use Case	Suitable for both manual testing and automation. Good for API exploration and quick tests.	Best for automation in Java projects and for integrating API tests with application code.
Execution Speed	Relatively slower due to GUI and being standalone.	Faster execution as it runs within the code environment.