

API Performance Testing

Approach

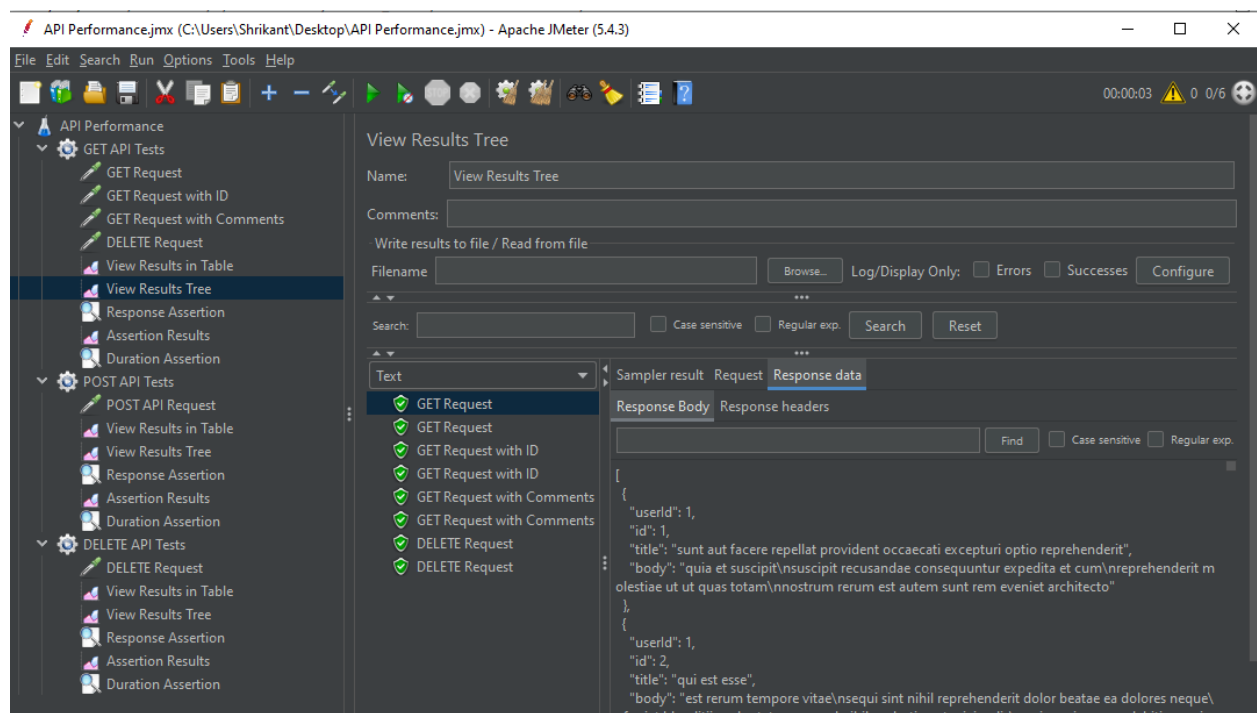
1. I have used a JMETER as an open source tool.
2. It's free and platform independent.
3. Using JMETER we can easily add different assertions/create virtual users/measure response time etc.

Programming language

1. JMeter has their own UI + we can use bash scripting as well.

How to run

1. Clone the entire project on a local machine from GitHub.
2. Execute test from JMeter UI



Current Automation Features -

1. Created Test Plan in JMeter for GET/POST/DELETE.
2. Added a different listeners to see details ex - response time/status codes/response body.
3. Added **assertions** on response time.
4. Able to create parallel virtual users to see performance in case of load.

What features we can add to framework in next phase

2. Integrate Automation with **Jenkins** for continuous integration.
3. Pull code at runtime from **GitHub** by Jenkins, execute, and send emailable reports to relevant audiences.
4. Create Automation dashboard to **monitor 24*7 Jenkins jobs** status.
5. Store automation reports on cloud ex – S3 bucket in AWS.
6. Manage most of Automation configuration as command-line arguments.
8. Execute same scripts on different environments ex – Integration/Staging/Preview/Production etc.
9. Integrate Automation with different Third party tools ex – Slack for notification purpose / Integrate with JIRA to update automation results.