

WriteUps :

1. Setup Environment:

- Ensure Java 1.8+ is installed.
- Set up Maven on your system.
- Create a Maven project for your automation suite.

2. Install Postman:

- Download and install Postman on your system.
- Set up necessary configurations if required.

3. Create Postman Collection:

- Launch Postman.
- Create a new collection for the Pet Store API.
- Add requests for the functionalities you need to automate.

4. Write Test Scripts in Postman:

- For each request in your collection, write test scripts using JavaScript in Postman.
- These scripts will handle validations, assertions, and any necessary data manipulations.

5. Export Postman Collection:

- Export the Postman collection as a JSON file.

6. Setup Maven Dependencies:

- In your Maven project, add dependencies for Rest Assured, TestNG, and Hamcrest.
- Specify the versions as required (Rest Assured 4.5.1, TestNG 7.1.0).

7. Write Test Classes:

- Create test classes using Java in your Maven project.
- Use Rest Assured to perform API requests.
- Parse the JSON responses and validate them using Hamcrest assertions.
- Use TestNG annotations for setup, teardown, and test execution.

8. Integrate Newman for Postman Tests:

- Install Newman globally using npm (npm install -g newman).
- Use Newman to run your Postman collection from the command line.
- Integrate this into your CI/CD pipeline if applicable.

9. Performance Testing with JMeter:

- Install and set up JMeter on your system.
- Design performance test plans for the Pet Store API endpoints.
- Execute the tests and analyze the results to ensure API performance meets requirements.

10. Execute and Report:

- Execute your automation suite.
- Generate reports using TestNG or any other reporting libraries.
- Include test results, logs, and any issues encountered.

11. Continuous Integration:

- Integrate your automation suite with CI/CD pipelines for continuous testing.
- Ensure the suite runs automatically on each code commit or scheduled intervals.

12. Maintenance and Updates:

- Regularly update your automation suite to accommodate changes in the API or application.
- Keep dependencies up to date to leverage new features and bug fixes.