Etalent Assessment -Framework Decision

Assessment

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# Functional Testing

Please review the two frameworks and recommend one with reasons for your choice.

## Rest Assured:

Easy to set up and use for REST API testing.

Provides a fluent and expressive API for writing test cases.

Integrates well with Java, making it suitable for Java-based projects.

Has a strong community and extensive documentation.

Cons:

Limited support for data-driven testing, which might be useful for more complex scenarios.

## Karate:

Designed specifically for API testing, making it highly focused and efficient.

Supports data-driven testing out of the box, which is useful for testing various scenarios.

Features a built-in HTTP client, eliminating the need for external libraries.

Offers strong support for JSON and XML validation.

Cons:

Learning curve if you are not familiar with the Gherkin language or Cucumber-style testing.

I select Rest assured, as it a bit complex and allows user to learn and integrate

# E2E Testing

## TestCafe

Pros

Its designed, for web testing e2e test, and its simple

Cross-browser testing is effort easy

Support parallel execution and has smart execution.

Cons

Its has limited support for non-browser interactions.

## CodeceptJS:

It supports multiple testing libraries

It has Support data driven testing for e2e testing.

Cons

Its requires setup and configurations

I select the Codecepts

It can work multiple libraries, and it’s easy to use and one have experience working with JavaScript

# Performance Testing

JMeter – is user-friendly and it’s a good choice for beginners with little experience

The support JMeter is widely adopted in the industry and has good documentation and community support.

It can be used in variety of load testing scenario and not limited Rest Assured , it includes database, web applications e.t.c

## Gatling

Pros

It simulates as code,it defines scenarios as code ,it more flexible

It create realistic user scenarios and it uses minimal resources consumption

I select JMeter it has user friendly GUI base, easy to learn and use wide rage of load testing