Implementation Requirement and Answer

You need to implement end-to-end test for the 3 REST API endpoints.

1. Your solution should Be implemented using any open source testing framework and language of your own choice. We do however recommend using a language/framework that is easy to install and can run on any machine.

Answer: This API assignment is designed to use an open source testing framework Karate to create a Maven project with Java Language, which is easy to install and run on any machine.

1. Contain clear instructions on how to run the test suite

Answer: Kindly refer to README.md in the project for instructions.

1. Contain the appropriate level(s) of testing

Answer: This test suite includes Smoke test, E2E test, Destructive test as well Performance test. For more details refer to TestCoverage&Defect\_HuJunYing.xlsx

1. Demonstrate proper software testing design and engineering practices

Answer: The test analysis and design are documented well.

1. Explain the reasoning behind your choice of testing framework, the tests structure

Answer: 1) This Karate framework continuity integrate all-updates third party to make API test-automation easy and fast

2) Flexible configuration for verification part adapting changes of application

3) Good scalability to call Java functions for specific logic validation

1. Be of production quality

Answer: The verification is very clear and detailed according to the step. Once the case fails, it is easy to know where went wrong.

1. Be able to run on a Linux machine

Answer: Maven project with Java programming can run Linux machine