**APIAutomation-RestAssuredBDD**

**Introduction:**

* REST Assured is a Java library for testing RESTful web services
* It is used to invoke REST web services and check response
* It can be used to test XML as well as JSON based web services
* It supports POST, GET, PUT, DELETE, OPTIONS, PATCH and HEAD requests and can be used to validate and verify the response of these requests.
* It can be integrated with testing frameworks like JUnit, TestNG etc

**Used tools & frameworks**

* Java
* IDE (Eclipse)
* Maven
* TestNG
* Rest-assured
* Cucumber

**Dependencies:**

* Cucumber-core
* Cucumber-html
* cobertura code coverage
* Cucumber-java
* Cucumber-junit
* Cucumber-jvm-deps
* Cucumber-reporting
* Hamcrest-core
* Gherkin
* Junit

Source:  <https://mvnrepository.com/search?q=Cucumber>

**Framework:** Behavioural Driven Development framework using Cucumber/Selenium

* Features folder contains application features.
* Each feature file can write with multiple scenarios
* Step definition is written with methods defined in feature file
* Test runner is used to execute feature wise or w.r.t tags
* Tags implemented (ex; @sanity)
* Background steps included for all scenarios
* Hooks implemented to run method before and after each scenario

Graphical user interface, text, application

Description automatically generated

**Test Execution:**

1. It can run from Test runner.java > JUnit Test
2. It can run from pom.xml>maven.test
3. It can also extend to run from command prompt
4. It can run by building it from Jenkins

**Test report:** HTML ReportText

Description automatically generated

**Future Work:**

1. To support reading data from xlsx and xls using excel maven libraries
2. To integrate with external reporting tools for better visibility
3. To integrate with CI/CD pipeline using Jenkins