Difference between -

1. RestAssured and
2. Karma
3. Serenity cucumber
4. RestQA

Difference and ]

REST Assured is developed and maintained by [Johan Haleby](https://www.linkedin.com/in/johan-haleby-a1163b4a/" \t "https://medium.com/getir/_blank). Johan started the project when he was working at [Jayway](https://www.jayway.com/" \t "https://medium.com/getir/_blank) back in December of 2010. The project is now sponsored by [Parkster](https://www.linkedin.com/company/parkster/" \t "https://medium.com/getir/_blank). The latest version is 4.5.0.

Rest Assured framework has a BDD or Gherkin support that helps to enhance the readability of the code and clean coding. REST Assured assists in easy integration of classic testing frameworks such as JUnit and TestNG.

BDD Syntax

Parellel execution not possible

It is based on JVM

Cannot validate JSON

Cannot do performance testing

Have to use extra Java library to read files

Have to use extra Java method to retry

Lang - Java

Includes JSON and XML path

You can also verify status code, status line, cookies, headers, content type and body.

 Integrating rest assured into a ci/cd pipeline is easy.

REST Assured also supports mapping a request body and response body to and from a Java object using Jackson, Gson or JAXB. Usage example:

Greeting greeting = get("/greeting").as(Greeting.class);

Greeting greeting = new Greeting();

greeting.setFirstName("John");

greeting.setLastName("Doe");

given().body(greeting).when().post("/greeting");

See the javadoc for the body method for more details.

Full body/content matching:

get("/x").then().assertThat().body(equalsTo("something")). ..

get("/x").then().assertThat().content(equalsTo("something")). .. // Same as above

REST assured also supports some authentication schemes, for example basic authentication:

given().auth().basic("username", "password").when().get("/secured/hello").then().statusCode(200);

Other supported schemes are OAuth and certificate authentication.

<https://medium.com/@upskillanywhere/rest-assured-tutorial-for-beginners-e89f6376d0db>

https://blog.clairvoyantsoft.com/api-test-automation-with-rest-assured-54d6d5a470b4

**[What is Rest Assured?](https://upskillanywhere.com/rest-assured/" \t "https://medium.com/@upskillanywhere/_blank)**

* Rest-Assured is a Java-based library that is used to test RESTful Web Services or REST APIs.
* Rest-Assured behaves like a headless Client to access REST web services.
* We can create customizable HTTP Requests to send to the Restful server.
* Rest-Assured supports all methods of HTTP like GET, PUT, POST, and DELETE to submit the request to the server and to validate the HTTP RESPONSE.

Serenity Cucumber -

<https://qaautomation.expert/2020/11/19/serenity-bdd-with-cucumber-and-rest-assured/>

<https://github.com/rajeshkumargit/cucumber-serenity-restassured>

<https://www.softwaretestinghelp.com/test-automation-frameworks-selenium-tutorial-20/>

<https://dzone.com/articles/32-best-javascript-snippets-one-liners-in-2023?fromrel=true>

Selenium TestNG , pom

<https://qaautomation.expert/2021/07/07/page-object-model-without-page-factory-in-selenium-webdriver/>

# **WebDriver Browser Commands – get, getTitle, getCurrentUrl, getPageSource, getClass, close, quit in Selenium WebDriver**

<https://qaautomation.expert/2019/05/03/webdriver-browser-commands-get-gettitle-getcurrenturl-getpagesource-getclass-close-quit-in-selenium-webdriver/>

***[WebDriver Navigation Commands – Navigate, Forward, Back, Refresh in Selenium WebDriver](https://qaautomation.expert/2019/05/16/webdriver-navigation-commands-navigate-forward-back-refresh-in-selenium-webdriver/?relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1&relatedposts_hit=1&relatedposts_origin=901&relatedposts_position=1" \o "WebDriver Navigation Commands &#8211; Navigate, Forward, Back, Refresh in Selenium&nbsp;WebDriver)***

<https://qaautomation.expert/2019/05/16/webdriver-navigation-commands-navigate-forward-back-refresh-in-selenium-webdriver/>

# **CSS Selectors in Selenium Webdriver**

<https://qaautomation.expert/2019/04/24/css-selectors-in-selenium-webdriver/>

# **Difference between FindElement and FindElements in Selenium WebDriver**

<https://qaautomation.expert/2019/05/05/difference-between-findelement-and-findelements-in-selenium-webdriver/>

# **Dynamic XPath in Selenium WebDriver**

https://qaautomation.expert/2019/04/18/dynamic-xpath-in-selenium-webdriver/

# **How to handle Dynamic Web Tables using Selenium WebDriver**