What is REST Assured

Rest assured is java library for testing Restful Web services. It can be used to test XML & JSON based web services. It supports GET, POST, PUT, PATCH, DELETE, OPTIONS and HEAD requests and can be used to validate and verify the response of these requests. Also it can be integrated with testing frameworks like JUnit, TestNG etc.

Prerequisites : Java, IDE (Eclipse, IntelliJ, etc), Maven & TestNG

* 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
* Can be integrated with testing frameworks like JUnit, TestNG etc
* REST Assured is implemented in Groovy

## **First simple Rest Assured script**

### **Syntax:**

The syntax of Rest Assured.io is the most beautiful part, as it is very BDD like and understandable.

Given().

param("x", "y").

header("z", "w").

when().

Method().

Then().

statusCode(XXX).

body("x, ”y", equalTo("z"));

### **Explanation:**

| **Code** | **Explanation** |
| --- | --- |
| Given() | ‘Given’ keyword, lets you set a background, here, you pass the request headers, query and path param, body, cookies. This is optional if these items are not needed in the request |
| When() | ‘when’ keyword marks the premise of your scenario. For example, ‘when’ you get/post/put something, do something else. |
| Method() | Substitute this with any of the CRUD operations(get/post/put/delete) |
| Then() | Your assert and matcher conditions go here |

### **Getting the response Body**

**Step 1)** Create a class named as “myFirstRestAssuredClass”

**Step 2)** Create a method called “getResponseBody”

**Step 3)** Similar to the structure learned earlier of given, when and then, type the below code

given(). -> No headers required, no query or path param.

when(). -> No specific condition setup

get(‘http://demo.guru99.com/V4/sinkministatement.php?CUSTOMER\_ID=68195&PASSWORD=1234!&Account\_No=1‘). ->only the url needs to be supplied

then(). -> No specific assertions required

log(). all() -> Once all the response is fetched, log response, headers, essentially everything that the request returns to you.

public static void getResponseBody(){

given().when().get("http://demo.guru99.com/V4/sinkministatement.php?CUSTOMER\_ID=68195&PASSWORD=1234!&Account\_No=1").then().log()

.all();

}