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### **Revision History**

| Version | Date      | Author         |
|---------|-----------|----------------|
| 1.0     | 20/1/2017 | Nishant Makkar |
|         |           | Nimish Kumar   |



#### 1. Introduction

REST Assured library is used to test REST APIs. It is developed by **JayWay** Company and it is a really powerful catalyzer for automation testing of REST-services. REST-assured provides a variety of features, such as XPath-Validation, Specification Reuse, and easy file uploads.

## 2. Objective

This document introduce Rest-Assured framework with sample code and good examples. After understanding it, we can decide how Rest-Assured is useful in terms of Automation in different kinds of project.

### 3. Pre-Requisites

- i. IDE.
- ii. Java should be installed and build path should be configured.
- iii. Maven with configured build path. (Need Rest-Assured jar if not using maven).

- iv. TestNG (optional)
- **v.** Add below mentioned maven dependencies in pom.xml:

#### 4. Scenarios

Source Code is present in following Git Repo:

https://github.com/ggarg1xav/Rest-POC/

Scenarios covered are:

- i. Performing API calls with:
  - a. Input Body.
  - b. Parameters.
  - c. Files.

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- ii. Getting response and deciding its format as:
  - a. String
  - b. JSON Object
  - c. JSON Array.

Following Repository contains ApiHelper which is performing all API calls in following manner:

```
// Initializing request parameter.
RequestSpecification reqspec;
//Creating Request type.
if (file == null)
       reqspec = given().contentType(contenttype);
else
       reqspec = given().multiPart(file);
// Add request parameters
if (params != null) {
       for (String key : params.keySet())
               reqspec = reqspec.param(key, params.get(key));
}
//Add request body.
if (Input != null)
       regspec = regspec.body(Input);
//Logging Request.
reqspec = reqspec.log().all();
```

Here idea is to collate all request parameters (Request Spec Object) in one object in order to make API call.

Calling API & deciding Response type:

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After Calling API we are:

- Validating response code.
- Logging Response.
- Deciding type of response and returning it.

Method Return type is Object.

# 5. Advantages

Below are some additional advantages of Rest Assured library:

 Rest-Assured framework provides built-in logger functionality by using "log().all()" method:

```
public void getHealthcheckPing() {
    when().get("/ping").
    then().
    log().all().
    body(containsString("pong!"));
}
```

ii. HTTPS Validation :If you have some HTTPS issues and test flow doesn't check any security cases :

```
RestAssured.useRelaxedHTTPSValidation();
```

- iii. Assertion: Rest Assured is also providing the assertion functionality for this we have to add TestNg or Junit maven dependencies as mentioned above in step 3(ii).
- iv. One of the most obvious use case would be extracting values from response. Below is an example of extracting login value from getUserData() method response:

v. File Handling is possible.

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#### Rest Assured Framework Fe

### 6. Limitations

Below are some limitations of Rest Assured library:

- i. It could be used only for Rest API validations not for SOAP.
- ii. TestNg or Junit libraries/ maven dependencies should be added in your framework to use Rest Assured libraries.

### **7.** Conclusion

Rest Assured is among the most popular tools used for automating Rest API with a base level knowledge of supported programming language.

If customized properly as per requirement then it can be used for all kind of Rest Services.

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