**API Testing using Rest-Assured.**

* REST Assured itself is an API to test API’s, Rest Assured is available in the form of .jar files written Java.
* it is designed for automating REST services/REST API’s
* Testing and validating different types of response.
* It only supports only REST service API not SOAP services.

**Pre-Requisites:**

Java Installation.

**Dependencies:**

* RESTAssured
* TestNG
* Json simple
* Apache POI

**Validations points:**

* Status code
* Status Line
* Content
* Response body
* Headers
* Time taken

**GET, POST**, **PUT**, **DELETE**

**Steps**

Step 1: Specify Base URI: >

**RestAssured.baseURI=”uri”**;

Step 2: Specify Request Object for sending request: >

**RequestSpecification req=RestAssured.given()**;

Step 3: Specify Response object: >

**Response res=req.request(Method.GET,”Hyderbad”)**;

Step 4: response is returned in JSON format:

**String str=res.getBody.asString();**

**sout(str);**

**Validation:**

**By using Response Object**

* res.getStatusCode();
* res.getStatusLine();
* res.getBody();

**To extract a Node text from Response using JsonPath:**

**// get the JsonPath object instance from response interface.**

**JsonPath jpath=res.jsonPath();**

**String str=jpath.get(“City”);**

**Sout(str)**

**To create a json to send parameters:**

JSONObject obj=new JSONObject();

obj.put(“firstname”,”ram”)

obj.put(“lastname”,”krishna”);

obj.put(“dob”,”10/16/1976”);

**To specify the header to send data:**

**HttpReqeust.header(“Content-Type”,”application/json”)**;

**HttpRequest.body(obj.toJSONString())**;

**Response res=header.request(Method.POST,”/register”)**;