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algorithms(3)

allure(2)

apim(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

Categories

gatling(6)

git(4)

github(2)

gitlab(3)

> Agile Tutorials

angular(15)

angularfx(2)

javascript(4)

jenkins(8)

> DevOps Tutorials

meter(12)

junit(14)

karate(2)

locust(2)

> Interview Questions

log4j(1)

logging(2)

mocha(1)

mockito(1)

> Performance Testing

node.js(2)

octopus deploy(2)

packer(1)

> Powershell

powershell(2)

rancher(1)

rest assured(3)

> Gatling Tutorials

gatling(6)

git(4)

github(2)

gitlab(3)

Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

Request Rewrite with Charles Proxy

Cucumber Tutorials

Charles Proxy for Capturing Network Traffic

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Appium Tutorials

Espresso Tutorials

Robot Framework

Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

UI Automation

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Visual Testing

Test Masters

Testing Tutorials

Tools and Technologies

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

exampleRestTest

Interview Questions

node.js(2)

octopus deploy(2)

Performance Testing

powershell(2)

rancher(1)

rest

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Categories

Agile Tutorials

Appium Tutorials

DevOps Tutorials

Interview Questions

Performance Testing

Gatling Tutorials

ia get output (responses). These APIs are generally REST services with JSON or XML message payloads being sent .JMS, and MQ.

into theory so much in this post. If you want to learn REST testing, you can visit below websites.

ii.org/testing-dojo/world-of-api-testing/what-makes-api-nl

com/api-testing.html (Very introductive article.)

ia.org/wiki/API_testing

ational State Transfer)

tural style that uses simple HTTP calls for inter-machine .NET does not contain an additional messaging layer and rules for creating stateless services. A client can access the unique URI and a representation of the resource is h new resource representation, the client is said to be accessing RESTful resources with HTTP protocol, the e serves as the resource identifier and GET, PUT, DELETE, e the standard HTTP operations to be performed on that

bject Access Protocol)

y on XML, and together with schemas, defines a very ssaging framework. Every operation the service provides d, along with the XML structure of the request and operation. Each input parameter is similarly defined and or example, an integer, a string, or some other complex s codified in the WSDL – Web Service Description (or versions) Language. The WSDL is often explained as a the provider and the consumer of the service. SOAP uses protocols, such as HTTP and SMTP. The standard kes it easier for SOAP model to tunnel across firewalls at any modifications to the SOAP protocol. [3][4][6]

chtarget.com/definition/REST [1]

ight.com/representational-state-transfer-tips [2]

ii.org/testing-dojo/world-of-api-testing/soap-vs-rest-

http://blog.smartbear.com/apis/understanding-soap-

http://spf13.com/post/soap-vs-rest [5]

chtarget.com/tip/REST-vs-SOAP-How-to-choose-the-6]

ing with Rest Assured

ured?

ST APIs, I found REST Assured library so useful. It is 'ay Company and it is a really powerful catalyzer for of REST-services. REST-assured provides a lot of nice SL-like syntax, XPath-Validation, Specification Reuse, nd with those features we will handle automated API r.

gherkin type syntax which is shown in below code. If BD (Behavior Driven Development), I believe that you will ntax.

Java

exampleRestTest

1 @Test

2 void exampleRestTest() {

3 given()

4 .contentType(ContentType.JSON)

5 .pathParam("id", "AskJsd8Sd")

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2/23

Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremo

zed attack proxy(2)

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Test Reporting

Allure Report

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algorithms(3)

allure(

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

Categories

gatling(6)

git(4)

github(2)

java(15)

java8(5)

javascript(

jenkins(8)

meter(12)

junit(14)

karate(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

Interview Questions

node.js(2)

octopus deploy(2)

Performance Testing

powershell(2)

rancher(1)

rest

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statusCode(200)

body("firstName", equalTo("Onur"))

body("Surname", equalTo("Baskirt"))

SON response as a string and send it to the JsonPath

ethods to write more structured tests. I generally prefer

structured tests.

exampleJsonPathTest

Java

```
1 @Test
2 public void exampleJsonPathTest() {
3     Response res = get("/service/example");
4     assertEquals(200, res.getStatusCode());
5     String json = res.asString();
6     JsonPath jp = new JsonPath(json);
7     assertEquals("onur@swtestacademy", jp.get("email"));
8     assertEquals("Onur", jp.get("firstName"));
9     assertEquals("Baskirt", jp.get("lastName"));
10 }
```

a POST Request with RestAssured?

uses **requestSpecBuilder** to make a post request.

ions are listed below.

- URL of the Rest API

ody of the Rest API. **Example:**

e1","key2":"value2"}
re() – Pass the "application/json", "application/xml" or
tc. headers to setContentType() method.
on credentials – Pass the username and password to the
od or if there is no authentication leave them blank

Java

```
1 @Test
2 public void httpPostMethod() throws JSONException, InterruptedException {
3
4     //Rest API's URL
5     String restAPIUrl = "http://{URL of API}";
6
7     //API Body
8     String apiBody = "{\"key1\":\"value1\",\"key2\":\"value2\",\"key3\":\"val
9
10    // Building request by using requestSpecBuilder
11    RequestSpecBuilder builder = new RequestSpecBuilder();
12
13    //Set API's Body
14    builder.setBody(apiBody);
15
16    //Setting content type as application/json
17    builder.setContentType("application/json; charset=UTF-8");
18
19    RequestSpecification requestSpec = builder.build();
20
21    //Making post request with authentication or Leave blank if you don't hav
22    Response response = given().authentication().preemptive().basic({username
23    .spec(requestSpec).when().post(restAPIUrl);
24
25    JSONObject JSONResponseBody = new JSONObject(response.body().asString());
26
27    //Get the desired value of a parameter
28    String result = JSONResponseBody.getString({key});
29
30    //Check the Result
31    Assert.assertEquals(result, "{expectedValue}");
32
33 }
```

st Assured POST Request

Java

```
1 @Test
2 public void postExampleByGherkin()
3 {
4     RestAssured.baseURI = "Your API URL";
5
6     Response res = given()
7     .contentType("application/json").
8     body("{\"name\":\"Onur Baskirt\"}").
9     when().
10    post("");
11
12    String body = res.getBody().asString();
13    System.out.println(body);
14 }
15 }
```

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3/23

Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

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Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

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Cucumber Tutorials

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Robot Framework

Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

UI Automation

Selenium Tutorials

Visual Testing

Test Masters

Testing Tutorials

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capbara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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Categories

Agile Tutorials

Appium Tutorials

DevOps Tutorials

Interview Questions

Performance Testing

Gatling Tutorials

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degeeks.com/2015/04/automated-testing-of-rest-http://static.javadoc.io/com.jayway.restassured/rest-/jayway/restassured/path/json/JsonPath.html [4]

tchocolate.com/notes/rest-assured.html [5]

com/automationTesting/restAPIAutomationPostRequest.html [6]

est a search with a **search term and number of 4 videos**

pi.5min.com/

:k Obama

f_videos

in.com/search/barack%20obama/videos.json?

/e will receive details of the URL to the video and d description **in JSON format.**

:

TP response status returned.

sponse contained the relevant search term

only 4 video entries were returned

here is no duplicate video

itle, pubDate & duration

est a search with an **id of video and number of 4 related**

pi.5min.com/

18045

:lated_return

in.com/video/list/info.json?

045&num_related_return=4

/e will receive details of that video and 4 related videos e, URL and associated image in **JSON format.**

:

TP response status returned.

sponse was successful and relevant to given video_id

additional video entries were returned along with the id

here is no duplicate in related videos

itle, permittedDeviceTypes status (for ndsets,"ConnectedDevices","Computers") & time duration

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4/23

Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

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Cucumber Tutorials

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Espresso Tutorials

Robot Framework

Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

UI Automation

Selenium Tutorials

Visual Testing

Test Masters

Testing Tutorials

Tools and Technologies

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

Categories

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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in a short period of time and we chose the **REST**-s better to write the code with below rules.

ity:

single responsibility and includes a **single assertion**.
on has advantages while we are doing black-box testing.

raction:

st should be written in a **high-level** way.
as sending request, creating request, dealing with IO
utility methods not to do with inline methods.

ethods etc. that can be **re-used** for the testing of other

n, comments which **describe the tests sufficiently**.

ON responses with notepad++'s JSON Viewer plugin.

ethods class and **RestUtil** classes for **reusability** and **reuse**.

class comprises of **test-related functions**.
ntains **Rest Assured** related methods.

```
users\ONUR\Dropbox\WEBP... private ArrayList getMergedVid... return HelperMethods.merge... } //Prints Attributes private void printAttributes() for(int i=0; i <getMergedV... //Prints Video List At... if (jp.get("items.title... System.out.println... System.out.println... System.out.println... System.out.println... System.out.println... System.out.println... //Check that sent... if (jp.get("items... for (int j = 0... System.out... System.out... System.out... System.out...
```

nd **Example2Test** contain our **tests and assertions**.

test runner **suite**. We can **run all the test with the**

ed **Maven** and **pom.xml** is our dependency and profile so go into details of this file further.

o examine the test code. We start with pom.xml.

ould add:

is our test framework

For assertion methods

rest assured library – It is our REST API testing library

test from **command prompt** with maven I also added at the end of the pom.xml. We can run all tests with

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automatic

Api testing

Request Rewrite with Charles Pr

Cucumber Tutorials

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Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

Categories

gatling(6)

git(4)

github(2)

nitlab(3)

RestUtil

Java

meter(15)

java(15)

java(15)

meter(12)

junit(14)

karate(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

Interview Questions

node.js(2)

octopus deploy(2)

Performance Testing

powershell(2)

rancher(1)

rest

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down below.

1<?xml version="1.0" encoding="UTF-8"?>

2<project xmlns="http://maven.apache.org/POM/4.0.0"

3xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

4xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

5<modelVersion>4.0.0</modelVersion>

6

7<groupId>com.5min.apitest</groupId>

8<artifactId>5min-apitest</artifactId>

9<version>1.0.0-SNAPSHOT</version>

10

11<!--Dependencies-->

12<dependencies>

13<dependency>

14<groupId>org.hamcrest</groupId>

15<artifactId>hamcrest-all</artifactId>

16<version>1.3</version>

17</dependency>

18

19<dependency>

20<groupId>org.hamcrest</groupId>

21<artifactId>hamcrest-junit</artifactId>

22<version>2.0.0.0</version>

23</dependency>

24

25<dependency>

26<groupId>junit</groupId>

27<artifactId>junit</artifactId>

28<version>4.12</version>

29</dependency>

30

31<dependency>

32<groupId>com.jayway.restassured</groupId>

33<artifactId>json-schema-validator</artifactId>

34<version>2.8.0</version>

35</dependency>

36

37<dependency>

38<groupId>com.jayway.restassured</groupId>

39<artifactId>rest-assured</artifactId>

40<version>2.8.0</version>

41</dependency>

42</dependencies>

43

44<!--Profiles-->

45<profiles>

46<profile>

47<id>AllApiTests</id>

48<activation>

49<activeByDefault>true</activeByDefault>

50</activation>

51<build>

52<pluginManagement>

53<plugins>

54<plugin>

55<groupId>org.apache.maven.plugins</groupId>

56<artifactId>maven-surefire-plugin</artifactId>

57<version>2.19.1</version>

58<configuration>

59<includes>

60<include>*/AllApiTest.class</include>

61</includes>

62</configuration>

63</plugin>

64</plugins>

65</pluginManagement>

66</build>

67</profile>

68</profiles>

69

70</project>

ne other codes line by line. Now I want to go on with

for Rest Assured Library. It contains many methods that

ir codes more effectively.

1package com.5min.apitest;

2import com.jayway.restassured.RestAssured;

3import com.jayway.restassured.http.ContentType;

4import com.jayway.restassured.path.json.JsonPath;

5import com.jayway.restassured.response.Response;

6import org.hamcrest.Matchers;

7import static com.jayway.restassured.RestAssured.*;

8public class RestUtil {

9//Global Setup Variables

10public static String path; //Rest request path

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Test Reporting

Allure Report

Extent Reports

Testing Frameworks

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Selenium Tutorials

Visual Testing

Test Masters

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Tools and Technologies

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```

16 //Before starting the test, we should set the RestAssured.baseURI
17 */
18 public static void setBaseURI (String baseURI){
19     RestAssured.baseURI = baseURI;
20 }
21
22 /**
23  ***Sets base path***
24  Before starting the test, we should set the RestAssured.basePath
25  */
26  public static void setBasePath(String basePathTerm){
27      RestAssured.basePath = basePathTerm;
28  }
29
30  /**
31  ***Reset Base URI (after test)***
32  After the test, we should reset the RestAssured.baseURI
33  */
34  public static void resetBaseURI (){
35      RestAssured.baseURI = null;
36  }
37
38  /**
39  ***Reset base path (after test)***
40  After the test, we should reset the RestAssured.basePath
41  */
42  public static void resetBasePath(){
43      RestAssured.basePath = null;
44  }
45
46  /**
47  ***Sets ContentType***
48  We should set content type as JSON or XML before starting the test
49  */
50  public static void setContentType (ContentType Type){
51      given().contentType(Type);
52  }
53
54  /**
55  ***search query path of first example***
56  It is equal to "barack obama/videos.json?num_of_videos=4"
57  */
58  public static void createSearchQueryPath(String searchTerm, String js
59      path = searchTerm + "/" + jsonPathTerm + "?" + param + "=" + param
60  }
61
62  /**
63  ***Returns response***
64  We send "path" as a parameter to the Rest Assured's "get" method
65  and "get" method returns response of API
66  */
67  public static Response getResponse() {
68      //System.out.print("path: " + path + "\n");
69      return get(path);
70  }
71
72  /**
73  ***Returns JsonPath object***
74  * First convert the API's response to String type with "asString()" me
75  * Then, send this String formatted json response to the JsonPath class
76  */
77  public static JsonPath getJsonPath (Response res) {
78      String json = res.asString();
79      //System.out.print("returned json: " + json + "\n");
80      return new JsonPath(json);
81  }
82  }

```

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algorithms(3)

allure(3)

appium(13)

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espresso(2)

gatling(6)

git(4)

github(2)

java(15)

javafx(2)

javascript(3)

meter(12)

junit(14)

karate(2)

log4j(1)

logging(2)

mocha(1)

node.js(2)

octopus deploy(2)

performance testing

powershell(2)

rancher(1)

rest assured(3)

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HelperMethods

Java

```

1 package Utils;
2 import com.jayway.restassured.path.json.JsonPath;
3 import com.jayway.restassured.response.Response;
4 import java.util.*;
5 import static org.junit.Assert.assertEquals;
6
7 public class HelperMethods {
8     public static void checkStatusIs200 (Response res) {
9         assertEquals("Status Check Failed!", 200, res.getStatusCode());
10     }
11
12     //Get Video Ids (For example 1)
13     //We can use get method of Rest Assured Library's JsonPath Class's get method
14     //PART of a response is shown below:

```

' class for our example1 and example 2. It contains
ample1 and example2. We created this class for creating
ture and prevent code replication.

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```

26 we can get all id's with this code -> jp.get("items.id"); this will re
27 all id's under "items" tag.
28 */
29 public static ArrayList getVideoIdList (JsonPath jp) {
30     ArrayList videoIdList = jp.get("items.id");
31     return videoIdList;
32 }
33
34 /*
35 Get Related Video Ids (For example 2)
36 Structure of response is shown below:
37 items:
38     "related": [{
39         "id": 519148754,
40         ....
41 In order to get all id's under related tag,
42 We can use JsonPath's get method like "jp.get("items.related.id");"
43 It will give us all id's under related tag.
44 */
45 public static ArrayList getRelatedVideoIdList (JsonPath jp) {
46     //jp.get method returns all ids
47     ArrayList relatedVideoList = jp.get("items.related.id");
48     /*
49 Result of relatedVideosList: [[519148754, 519115214, 519235328, 51
50 I have to convert above result in this format: [519148754, 5191152
51 In order to split first element of "relatedVideosList" and assign
52 I did below operation.
53 */
54 ArrayList splittedRelatedVideoList = (ArrayList) relatedVideoList.
55     return splittedRelatedVideoList;
56 }
57
58 //Merge videoIdList and relatedVideoIdList as mergedVideoList
59 public static ArrayList mergeLists (ArrayList videoList, ArrayList re
60 ArrayList mergedVideoList = new ArrayList(videoList);
61 mergedVideoList.addAll(relatedVideoList);
62     return mergedVideoList;
63 }
64
65 //Find Duplicate Videos
66 public static boolean findDuplicateVideos (List<Integer> videoIdList)
67     for (int i=0; i< videoIdList.size(); i++) {
68         if(Collections.frequency(videoIdList, videoIdList.get(i)) > 1)
69             System.out.println("This video id is duplicated: " + video
70             return false;
71         }
72     }
73     return true;
74 }
75 }

```

line by line below.

```

Example1Test
Java
1 package ApiTests;
2
3 import Utils.*;
4 import com.jayway.restassured.http.ContentType;
5 import com.jayway.restassured.path.json.JsonPath;
6 import com.jayway.restassured.response.Response;
7 import org.junit.*;
8 import org.junit.runners.MethodSorters;
9 import static org.junit.Assert.assertTrue;
10
11
12 @FixMethodOrder(MethodSorters.NAME_ASCENDING) //For Ascending order test e
13 public class Example1Test {
14
15     //First, I declared Response and JsonPath objects.
16     private Response res = null; //Response object
17     private JsonPath jp = null; //JsonPath object
18
19     /*
20     Second, we should do setup operations, get JSON response from the API
21     Then we will do query and manipulations with JsonPath class's methods.
22     We can do all of the preparation operations after @Before Junit annota
23     */
24     @Before
25     public void setup () {
26         //Test Setup
27         RestUtil.setBaseURI("http://api.5min.com"); //Setup Base URI
28         RestUtil.setBasePath("search"); //Setup Base Path
29         RestUtil.setContentType(ContentType.JSON); //Setup Content Type
30         RestUtil.createSearchQueryPath("barack obama", "videos.json", "num
31         res = RestUtil.getResponse(); //Get response
32         jp = RestUtil.getJsonPath(res); //Get JsonPath
33     }
34
35     @Test
36     public void T01_StatusCodeTest() {
37         //Verify the http response status returned. Check Status Code is 2
38         HelperMethods.checkStatusIs200(res);
39     }
40
41     @Test
42     public void T02_SearchTermTest() {

```

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azure(4)

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device farm(3)

elasticsearch(2)

espresso(2)

gatling(6)

git(4)

github(2)

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jenkins(8)

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junit(14)

karate(2)

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Performance Testing

powershell(2)

rancher(1)

rest

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47

48

49

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54

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56

57

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Example2Test.java

Java

1 package ApiTests;

2

3 import Utils.*;

4 import com.jayway.restassured.http.ContentType;

5 import com.jayway.restassured.path.json.JsonPath;

6 import com.jayway.restassured.response.Response;

7 import org.junit.*;

8 import org.junit.runners.MethodSorters;

9

10 import java.util.ArrayList;

11

12 import static org.junit.Assert.assertEquals;

13 import static org.junit.Assert.assertTrue;

14

15 @FixMethodOrder(MethodSorters.NAME_ASCENDING) //For Ascending order test

16 public class Example2Test {

17

18 private Response res = null; //Response

19 private JsonPath jp = null; //JsonPath

20

21 /*

22 We should do setup operations, get JSON response from the API and put

23 Then we will do query and manipulations with JsonPath class's methods

24 We can do all of the preparation operations after @Before Junit annot

25 */

26 @Before

27 public void setup () {

28 //Test Setup

29 RestUtil.setBaseURI("http://api.5min.com"); //Setup Base URI

30 RestUtil.setBasePath("video"); //Setup Base Path

31 //In this example, I assigned full path manually in below code Li

32 RestUtil.path = "list/info.json?video_ids=519218045&num_related_r

33 RestUtil.setContentType(ContentType.JSON); //Setup Content Type

34 res = RestUtil.getResponse(); //Get response

35 jp = RestUtil.getJsonPath(res); //Set JsonPath

36

37

38 @Test

39 public void T01_StatusCodeTest() {

40 //Verify the http response status returned. Check Status Code is

41 assertEquals("Status Code is not 200", 200, res.getStatusCode());

42 }

43

44 @Test

45 public void T02_SearchTermTest() {

46 //Verify the response contained the relevant search term (5192180

47 assertEquals("Id does not match!", "519218045", HelperMethods.get

48 }

49

50 @Test

51 public void T03_verifyExtraFourVideosReturned() {

52 //Verify that extra 4 video entries were returned as related vide

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https://www.swtestacademy.com/rest-assured-tutorial-api-testing/

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Each card also features a small colored circle and a horizontal line, likely representing a progress bar or a selection indicator.

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Tests</id>
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<ugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>2.19.1</version>
<configuration>
<includes>
<include>**/AllApiTest.class</include>
</includes>
</configuration>
</plugin>
</ugins>
</nManagement>
```

```

    suite;

    junit.runner.RunWith;
    junit.runners.Suite;
    cs.UseCase1Test;
    cs.UseCase2Test;

    e.class)
    classes({

```

The screenshot shows the Tencent Cloud website with the following information:

- Top left: Tencent Cloud logo and name (腾讯云)
- Top right: Navigation links: 首页 (Home), 产品 (Products), 解决方案 (Solutions), 支持 (Support), 关于 (About)
- Left sidebar: 域名 (Domains), 云服务器 (Cloud Servers), 云存储 (Cloud Storage), 云网络 (Cloud Network), 云安全 (Cloud Security), 云数据库 (Cloud Database), 云迁移 (Cloud Migration), 云原生 (Cloud Native), 云开发 (Cloud Development), 云管理 (Cloud Management)
- Main content area:
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 - Sub-header: 域名注册服务 (Domain Registration Service)
 - Section: 域名注册 (Domain Registration)
 - Table:

域名类型 (Domain Type)	注册费 (Registration Fee)	续费费 (Renewal Fee)
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```

1 package Test;
2 locust(2)
3 import org.j
4 import org.j
5 import ApiTe
6 import ApiTe
7 ker(1)
8
9
10 @Suite.SuiteE
  
```

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wiremock(15)

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our tests on command prompt by typing below maven

Tests

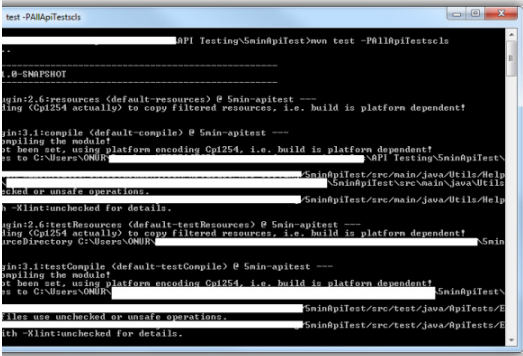
our project with the files that are described and shared

could go project directory in command prompt and simply

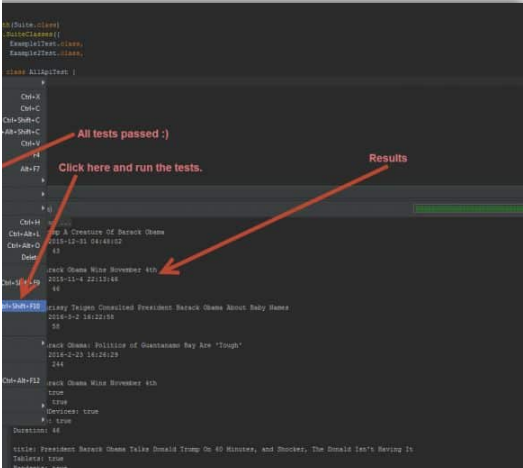
ind.

Tests

I run as shown below.



he tests in IntelliJ or Eclipse.



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jenkins(8)

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logging(2)

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mockito(1)

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octopus deploy(2)

packer(1)

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powershell(2)

rancher(1)

rest assured(3)

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s not working anymore. I wrote a new project for
can also check that example
[b.com/swtestacademy/api-automation-rest-assured-](https://github.com/swtestacademy/api-automation-rest-assured)

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DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

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Cucumber Tutorials

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Appium Tutorials

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Robot Framework

Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

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Test Masters

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agile(3)

algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capbara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

juniter(14)

karate(2)

locust(2)

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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r: Onur Baskirt

Baskirt is a senior IT professional with 15+ years of rience. Now, he is working as a Senior Technical ultant at Emirates Airlines in Dubai.

4, 2016 at 6:15 pm - Reply

use cucumber features to run API test. at does the framework involve. uggest any..

jr Baskirt May 25, 2016 at 12:44 am - Reply

course you can. I did not do this before but when I ogled it, I found below articles. Most of them are using by to do this. You can find a lot of results when you arch "api test with cucumber" on google. :p://gregbee.ch/blog/effective-api-testing-with-cucumber :p://www.hidroh.com/2015/03/08/test-external-api-like-ss-cucumber/

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About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

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Test Reporting

Allure Report

Extent Reports

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TestNG Tutorials

UI Automation

Selenium Tutorials

Visual Testing

Test Masters

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allure(2)

appium(13)

aws(3)

azure(4)

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cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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3, 2016 at 9:58 am - Reply

og on API testing with Rest-Assured..!!!

have any working example that you can illustrate on request passing the data dynamically (read JSON file and rest script).

Jr Baskirt

July 4, 2016 at 3:57 pm - Reply

Varun,

o not have any working example. Now, I am in a vacation. I will also check after vacation.

July 22, 2016 at 2:19 pm - Reply

pful article. Thank you for giving such an explanation relevant examples. It really helped in my project.

Jr Baskirt

August 9, 2016 at 11:54 pm - Reply

ank you Swati. 😊

ist 4, 2016 at 5:48 am - Reply

pful.

Jr Baskirt

August 9, 2016 at 11:54 pm - Reply

anks Ram. 😊

ist 14, 2016 at 8:49 am - Reply

please give an example how to post a complex Json post (POST Method) with data provider. The Post body should be filled with the values from dataprovider.

Jr Baskirt

August 14, 2016 at 2:24 pm - Reply

Dilip,

id a search and found below articles. I hope this helps.
:p://www.ontestautomation.com/creating-data-driven-i-tests-with-rest-assured-and-testng/
:p://james-willett.com/2015/06/going-further-with-rest-assured-part-2-parameterised-testing-with-junitparams/

Amit

May 8, 2018 at 10:50 am - Reply

https://www.linkedin.com/pulse/rest-api-automation-using-http-client-amit-tayade/

Onur Baskirt

May 9, 2018 at 12:33 am - Reply

Nice post Amit.

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

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Test Automation

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API testing

Request Rewrite with Charles Proxy

Cucumber Tutorials

Charles Proxy for Capturing Network Traffic

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Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

UI Automation

Selenium Tutorials

Visual Testing

Test Masters

Testing Tutorials

Tools and Technologies

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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for detailed explanation. We are trying to implement the
im getting exception at 'AfterTest' method.

ising any configuration?

```
oid afterTest (){  
/values  
resetBaseURI();  
resetBasePath();
```

j.IllegalArgumentException: baseUrl cannot be null

Jr Baskirt

August 22, 2016 at 3:29 pm - Reply

ase check here and debug your program carefully.
:ps://examples.javacodegeeks.com/java-
sics/exceptions/java-lang-illegalargumentexception-
w-to-solve-illegal-argument-exception/

tember 12, 2016 at 8:27 am - Reply

rt,

y test cases written in SOAP UI PRO tool, is there any
: i can migrate those TCs to Rest Assured?

Jr Baskirt

September 13, 2016 at 5:21 pm - Reply

Param,

web services are communicating with JSON or XML you
n transfer it to REST-Assured. I suggest you to check this
icle. [http://www.hascode.com/2011/10/testing-restful-
b-services-made-easy-using-the-rest-assured-
mework/](http://www.hascode.com/2011/10/testing-restful-b-services-made-easy-using-the-rest-assured-framework/)

ctober 28, 2016 at 9:53 am - Reply

u. very useful article.

ril 20, 2017 at 12:22 pm - Reply

lly happy that you have posted this article . Thank you so
r this article and it really helped me.

ave any working example that you can illustrate on
quest passing the data dynamically (read JSON file and
est script).

Jr Baskirt

April 20, 2017 at 8:42 pm - Reply

ank you. I do not have that example but I found this
icle for you.
:ps://semaphoreci.com/community/tutorials/testing-rest-
dpoints-using-rest-assured Please check "Sending Test
JN Data with POST Calls" section.

5, 2017 at 6:39 pm - Reply

I'm thinking of using Rest Assured for my API testing,
w RunScope online where you can monitor tests and run

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

Request Rewrite with Charles Proxy

Cucumber Tutorials

Charles Proxy for Capturing Network Traffic

Mobile Automation

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Robot Framework

Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

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Selenium Tutorials

Visual Testing

Test Masters

Testing Tutorials

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agile(3)

algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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jr Baskirt

June 5, 2017 at 8:31 pm - Reply

Neda,

you want to use open-source solution you can use stAssured. It is also not hard to use it and it has a nificant community. When u get in trouble, you can find any blog articles or StackOverflow questions/answers. t If you want to go faster and much easier tool, you can with Runscope. If I were you, I would try RestAssured for 3 weeks. If I could not reach my goals, then I switch to nScope. But If you have very limited time and if you ed to give a decision quickly, you can go on with nScope.

Reddy

July 15, 2017 at 9:24 am - Reply

a nice post..

y tried a new framework 'Karate' for REST API ion.

the link

github.com/intuit/karate

claiming that it is a really good tool which is lot better it-Assured. I am bit confused in choosing in between o framework for our API automation.Could you please is Karate really good.Or are there any drawbacks?

jr Baskirt

July 17, 2017 at 9:33 am - Reply

aven't tried Karate but RestAssured is a good library.

ugust 11, 2017 at 9:29 am - Reply

ng Version 0.1.9 of Rest Assured for .Net. I wanted to use ' sending the request instead of http.

ould you advice if there is some way to use https as s() is not working.

jr Baskirt

August 11, 2017 at 9:29 pm - Reply

id not have any experience on .NET. It is better to google :hat problem 😊

idra

September 3, 2017 at 8:34 pm - Reply

Baskirt, Thanks alot.

earned too much about restful api testing through your could you please help me out for connecting database to :ctedresult in below script:

```
oid test_07(){
e resp = given().
userid","40" ).
userid","72").
oken","any toekn").

;://iloverestapitesting");
:tualUserReport = resp.

ype(ContentType.JSON).

er_detail.email");
```

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

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Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

java-efx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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UserReport.equals(expectedUserReport)){
ut.println("User Report API is working fine and test case

ut.println("User Report is not found and API is not
fine and test case failed");

jr BaskirtSeptember 5, 2017 at 3:28 pm - Reply

ase check this article for JDBC connection with JAVA 😊
:p://www.swtestacademy.com/database-operations-
rafx/
is better to write DBOperations Utility class to handle DB
ated operations.

ursunSeptember 12, 2017 at 3:57 pm - Reply

en a very helpful article. thank you

ing a problem. when validating a schema, if a value
null, rest assured throw assertion error. how can i fixed it

jr BaskirtSeptember 12, 2017 at 4:26 pm - Reply

anks, Serhat. Have you tried try/catch block? I also found
s link. They also offered to catch the exception with
sertionError.
:ps://stackoverflow.com/questions/19390295/rest-
sured-exception-when-test-fails

Serhat ÖzdursunSeptember 13, 2017 at 9:37 am - Reply

Onur thanks for answering. I had been different
problem. But i was find correct reason. Json Schema i
used was incorrect.

incorrect schema:

"installment": {
"id": "/properties/installment",
"type": "integer"
},

correct schema need to use:

"installment": {
"id": "/properties/installment",
"type": ["integer","null"]
},

Onur BaskirtSeptember 13, 2017 at 12:14 pm - Reply

It's great to hear that you solved the problem.
Good luck on your project. 😊

ober 7, 2017 at 3:43 am - Reply

you please let me can i Connect to Jenkins for CI? I need
y Api every 10 mins and genrate reports and get email

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

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Recent Posts

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aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

Categories

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

java-afx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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sponse content type is text/xml. I am missing most or nples in JSON only. could u please give me some s on XML, and XML methods??

u please give Data Driven example on RA from reading iting from excel sheet? or extracting all url from excel ie after one.

jr Baskirt

October 7, 2017 at 1:23 pm - Reply

Yes, you can connect with Jenkins. You should use like vn test -PallApiTests" command to integrate with kins.

ien Jenkins

image Jenkins

lobal Tool Configuration

t JDK and Maven settings. Write their paths.

ien your build job.

ild -> Invoke top-level Maven Targets (Select This)

als = mvn test -PallApiTests (write your test suite

stead of -PallApiTests

port generation depends on you reporting libraries.

ase, Check surefire, testNG, JUnit reporting on google.

r testNG, use select "Publish TestNG Results" for a post-ild action and set your results.xml as a TestNG XML

ort pattern. Schedule Jenkins as shown here.

ps://stackoverflow.com/questions/12472645/how-to-chedule-jobs-in-jenkins

For DB tests, I suggest you write a DBUtil class and use BC. (Check my JAVAFOX Database article. You can find me tricks in that article.)

For XML, check here, please.

ps://static.javadoc.io/com.jayway.restassured/rest-assured/1.4/com/jayway/restassured/path/xml/XmlPath.html

Please, check Apache POI library examples on google. r example, <https://www.mkyong.com/java/apache-poi-adding-and-writing-excel-file-in-java/>

ary 23, 2018 at 11:50 pm - Reply

ou for posting this clean and basic project example. I uestion though, in Example-1.class and Example-2.class running the same SetUp() method. Is there any smart way both test suites to use same SetUp() function? n advance.

jr Baskirt

January 24, 2018 at 1:17 am - Reply

Gökçe, of course, there is a smart way to combine setup thods. ☺ One of the most common ways is to write a seTest class and then extend it in test classes like Page ject Model. There are some problems in my code.

Test classes should have only test methods.

It is better to write common setup and teardown thods in BaseTest class.

legaddi

January 30, 2018 at 6:38 am - Reply

great article on API testing. Also went through your f articles and they are very handy.

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

Api testing

Request Rewrite with Charles Proxy

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Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

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Test Masters

Testing Tutorials

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agile(3)

algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capbara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

Gatling Tutorials

Categories

jr Baskirt

January 30, 2018 at 5:27 pm

Reply

u are welcome! I am happy to hear your comment.

February 9, 2018 at 12:52 am

Reply

ning API.

execute above examples, but not executing.

u plz help me.

anks,

i

jr Baskirt

February 9, 2018 at 2:04 am

Reply

s, That API is not working. That's why you are getting a

blem. You can learn the tactics from this article and

ate your own solution.

to this example: <https://github.com/swtestacademy/api-omation-rest-assured-basic>

is a basic Rest-Assured Test with TestNG.

Become a member of Swagger.io.

A sample URL link is given to Swagger and details of the

IST & GET methods are displayed.

The detail of the returned JSON Data is structural.

A sample GET method is tested on the browser according

the Swagger output. The results are checked.

avoid repetition of code whenever possible, I wrote the

ethods that the test methods can use frequently in the

stUtils class and the methods that the API tests use in

APIUtils class.

my tests, I just tried to do the necessary operations. I

ote a BaseTest class to use for all tests. This includes

erations to be performed before and after the tests and

bal variables.

Swapnali

February 12, 2018 at 1:55 pm

Reply

Thanks Onur.

So whatever example you showed, that is the way to

write tests for REST API?

Thanks

Onur Baskirt

February 12, 2018 at 4:34 pm

Reply

Welcome. Yes all of them are for REST APIs.

Also, you can use KARATE. There is an article

about karate here:

<http://www.swtestacademy.com/karate-web-service-testing/>

Swapnali

February 20, 2018 at 12:47 pm

Reply

Hi,

I followed above step, got following

Swagger Petstore

1.1

[Base URL:

virtserver.swaggerhub.com/hub4/Test/1.0.0]

一个SDK

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18/23

results(3) [vagrant\(3\)](#) [wiremock\(2\)](#)
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 > zed attack proxy(2)
 > Java Tutorials

> Security Testing Tutorials

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> Software Conferences

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 > Test Automation

> Selenium reCAPTCHA Automation
 > Api testing

> Request Rewrite with Charles Proxy
 > Cucumber Tutorials

> Charles Proxy for Capturing Network Traffic
 > Mobile Automation

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 > Appium Tutorials

> Espresso Tutorials

> Robot Framework

> Test Reporting

> Allure Report

> Extent Reports

> Testing Frameworks

> JUnit Tutorials

> TestNG Tutorials

> UI Automation

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> Test Masters

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> Tools and Technologies

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[cucumber\(5\)](#) [device farm\(3\)](#) [docker\(5\)](#)
[elasticsearch\(2\)](#) [espresso\(2\)](#) [extent reports\(3\)](#)

Categories

gatling(6) [git\(4\)](#) [github\(2\)](#) [gitlab\(3\)](#)
[java\(15\)](#) [jmeter\(12\)](#) [junit\(14\)](#) [karate\(2\)](#) [locust\(2\)](#)
 > DevOps Tutorials
[log4j\(1\)](#) [logging\(2\)](#) [mocha\(1\)](#) [mockito\(1\)](#)
 > Interview Questions
[node.js\(2\)](#) [octopus deploy\(2\)](#) [packer\(1\)](#)
 > Performance Testing
[powershell\(2\)](#) [rancher\(1\)](#) [rest assured\(3\)](#)
 > Gatling Tutorials

http://swagger.io or on
 irc.freenode.net, #swagger.

Could you plz help me on this? Which link i can use as URL.

Onur Baskirt February 20, 2018 at 1:38 pm - Reply

I got HTTP ERROR 404

Swapnali Patil February 20, 2018 at 1:43 pm

could you please tell whats wrong?

Thanks

Onur Baskirt February 20, 2018 at 2:00 pm

1) Go to
<http://petstore.swagger.io/#/pet/addPet>
 this address. (POST /pet Add a new pet to the store)

2) Click try it out button.

3) Execute below code:

```
{
  "id": 2,
  "category": {
    "id": 2,
    "name": "string"
  },
  "name": "test-swtestacademy-dog",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "swtest-academy-test-tag"
    }
  ],
  "status": "available"
}
```

4) Go to "/pet/{petId}Find pet by ID"

5) Click try it out.

6) type 2 as id.

7) click execute.

Then you will see the results that you added at first step.

The URL will be:
<http://petstore.swagger.io/v2/pet/2>

Swapnali Patil February 21, 2018 at 1:05 am

Thanks Onur.
 getting response in XML. How to get response in JSON in browser?

Thanks

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Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

Api testing

Request Rewrite with Charles Proxy

Cucumber Tutorials

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Mobile Automation

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Robot Framework

Test Reporting

Allure Report

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Testing Frameworks

JUnit Tutorials

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agile(3)

algorithms(3)

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aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

juniter(14)

karate(2)

locust(2)

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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type" = application/json in dropdown.

atil February 21, 2018 at 4:15 pm - Reply

http://petstore.swagger.io/v2/pet/2" in browser, it showing > in XML.

get response in JSON or it will be always XML in browser

February 22, 2018 at 10:09 pm - Reply

reported your project, at POM i am getting error for naLocation="http://maven.apache.org/POM/4.0.0 aven.apache.org/xsd/maven-4.0.0.xsd please tell me what i have to do remove this error?

February 23, 2018 at 9:28 am - Reply

on't understand your exact problem. Maybe it is a nnection problem?

March 4, 2018 at 8:28 pm - Reply

ured or Soap Ui which is better??

March 4, 2018 at 10:22 pm - Reply

your coding skills good and if you know JAVA, Rest- sured is good. If you want to use a tool and use groovy, en SOAP-UI.

March 5, 2018 at 4:29 am - Reply

anks ,Can we do both web service and API testing using it assured ,As far I know using Soap UI we can test both. rich has more features Soap UI or rest assured and which easy to use

l 10, 2018 at 7:59 am - Reply

k your approach will be bit difficult to maintain if my > json will be huge we have to write json path to extract l.

why don't we go for model class mapping way(pojo class) r response with model class from that we can extract the

April 11, 2018 at 11:28 pm - Reply

u can use your POJO approach too. I applied a similar proach in my JavaFX article.

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Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

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aws(3)

azure(4)

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cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

javafx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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November 28, 2018 at 10:00 am - Reply

to use Groovy scripting along with selenium for REST w do I approach?

jr Baskirt

November 28, 2018 at 10:59 am - Reply

!llo Manjula, in Baeldung there is an article for this: ps://www.baeldung.com/rest-assured-groovy I hope it lps.

ember 6, 2018 at 6:23 pm - Reply

TP ERROR 404

u please tell what's wrong?

jr Baskirt

December 7, 2018 at 3:32 am - Reply

!llo, The example API is old. You should get the damental from the article and try to implement it for ur own API. Best Regards.

ember 17, 2018 at 7:05 am - Reply

Thank you for your tutorial, I am starting to learn API ut there are many tools and I don't know how to start then automated?!

any tutorials but, you know, none of them start similar to 1 zero points, could you please let me know if you know d resource? my colleague recommended starting with the i, what is your idea?

jr Baskirt

December 18, 2018 at 10:31 am - Reply

s you can use POSTMAN to check the endpoints and their ctionality. After that check the responses in JSON viewer bsites online. After that, you can start to automate them en using POSTMAN or writing a JAVA project with Rest-sured or Rest Template or OKhttp or similar libraries. I ggest Rest-Assured because it is very QA friendly. I hope s helps.

ruary 26, 2019 at 8:47 pm - Reply

icle

ember 1, 2019 at 12:23 pm - Reply

ting java.net.ConnectException: Connection timed out: error.

jr Baskirt

November 3, 2019 at 2:29 am - Reply

at API is not working anymore I guess. You can get the a of the solution and apply to your API.

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21/23

Home

About

Test Automation

Performance Testing

DevOps

More

Contact

Q

results(3)

vagrant(3)

wiremock(2)

Programming Tutorials

zed attack proxy(2)

Java Tutorials

Security Testing Tutorials

Recent Posts

Software Conferences

AWS Device Farm for Selenium

Test Automation

Selenium reCAPTCHA Automation

API testing

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Cucumber Tutorials

Charles Proxy for Capturing Network Traffic

Mobile Automation

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Robot Framework

Test Reporting

Allure Report

Extent Reports

Testing Frameworks

JUnit Tutorials

TestNG Tutorials

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Selenium Tutorials

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Testing Tutorials

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algorithms(3)

allure(2)

appium(13)

aws(3)

azure(4)

capybara(2)

cucumber(5)

device farm(3)

docker(5)

elasticsearch(2)

espresso(2)

extent reports(3)

gatling(6)

git(4)

github(2)

gitlab(3)

java(15)

java-fx(2)

javascript(4)

jenkins(8)

jmeter(12)

junit(14)

karate(2)

locust(2)

DevOps Tutorials

log4j(1)

logging(2)

mocha(1)

mockito(1)

Interview Questions

node.js(2)

octopus deploy(2)

packer(1)

Performance Testing

powershell(2)

rancher(1)

rest assured(3)

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API is working fine. I hit the API in Postman, getting 200 OK status.

http://ergast.com/api/f1/2017/circuits.json

PFB Postman Headers details –
KEY VALUE
Date Mon, 04 Nov 2019 08:16:42 GMT
Server Apache/2.2.15 (CentOS)
X-Powered-By PHP/5.3.3
Access-Control-Allow-Origin *
Content-Type application/json; charset=utf-8
Transfer-Encoding chunked
Connection Keep-Alive
Content-Encoding gzip

Could you please help me on this.

Onur Baskirt November 4, 2019 at 11:31 pm - Reply

Dear Varsha, it may have several reasons. Please debug the problem. I can not say a certain solution without debugging the problem.
https://stackoverflow.com/questions/86824/why-would-a-java-net-connectexception-connection-timed-out-exception-occur-wh

e November 11, 2019 at 2:11 pm - Reply

Consuming APIs from one service ,so is it possible to use a framework for testing in service ?

Jr Baskirt November 12, 2019 at 12:02 am - Reply

Yes you can use rest assured. If it is a rest service you can use post, get, put, patch, delete, etc. methods of rest assured to test the service.

v November 16, 2019 at 6:44 pm - Reply

Jr Baskirt November 16, 2019 at 11:23 pm - Reply

Hi!lo Prasad.

BAHIOUI November 18, 2019 at 6:06 pm - Reply

How to automate API testing and i'm really confused between Newman and Postman as Postman also provides Newman for CI/CD using scripting.
I think that Rest assured is better than Postman?

Jr Baskirt November 19, 2019 at 8:26 am - Reply

Hi!lo, we are using POSTMAN for exploratory testing of APIs but also you can use it for automated way. On the other hand, we are using Rest Assured for automation because it gives us full flexibility and maintainability. If you

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