

What is REST Assured?

REST Assured is an open-source **Java-based library** used to test RESTful web services. It provides a **domain-specific language (DSL)** for writing powerful, readable, and maintainable tests for REST APIs.



It's widely used in **QA automation** for validating **HTTP requests and responses** (like GET, POST, PUT, DELETE).

Why Use REST Assured?

Feature	Benefit
Simple Syntax	You write tests in natural, readable Java
No Need for Manual JSON Parsing	Automatically handles response parsing
TestNG/JUnit Integration	Works with standard test frameworks
Supports Authentication	Basic, Digest, OAuth, Bearer, etc
Built-in Assertion	Hamcrest-style expressive assertions
Fast Execution	Executes quickly with minimal setup

Common HTTP Methods

Method	Use Case
GET	Read/fetch resource
POST	Create resource
PUT	Update entire resource
PATCH	Partially update resource
DELETE	Delete resource

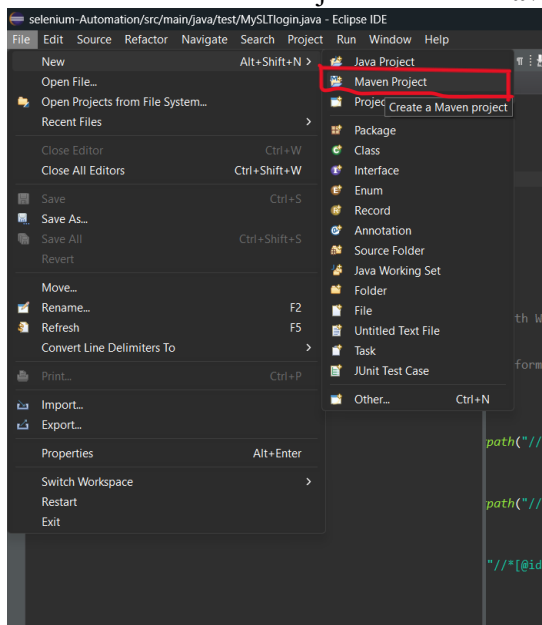
Prerequisites & Tools

Tool	Description
Java JDK	Install JDK 11 or later
IDE	IntelliJ IDEA / VS Code
Maven/Gradle	For managing dependencies
Postman	(Optional) For manual API testing

Project Setup (Maven)

► Step 1: Create Maven Project

1. Open Eclipse
2. Go to: File → New → Project → Select **Maven Project**



3. Click Next → Check Create a simple project → Click Next
4. Fill in:

- **Group ID:** com.myslt
- **Artifact ID:** slt-api-automation
- Click Finish

New Maven Project

Configure project

Artifact

Group Id: Restassured.api

Artifact Id: Restassured.api

Version: 0.0.1-SNAPSHOT

Packaging: jar

Name:

Description:

Parent Project

Group Id:

Artifact Id:

Version:

Browse... Clear

Advanced

< Back Next > **Finish** Cancel

Step 2: Add Dependencies in pom.xml

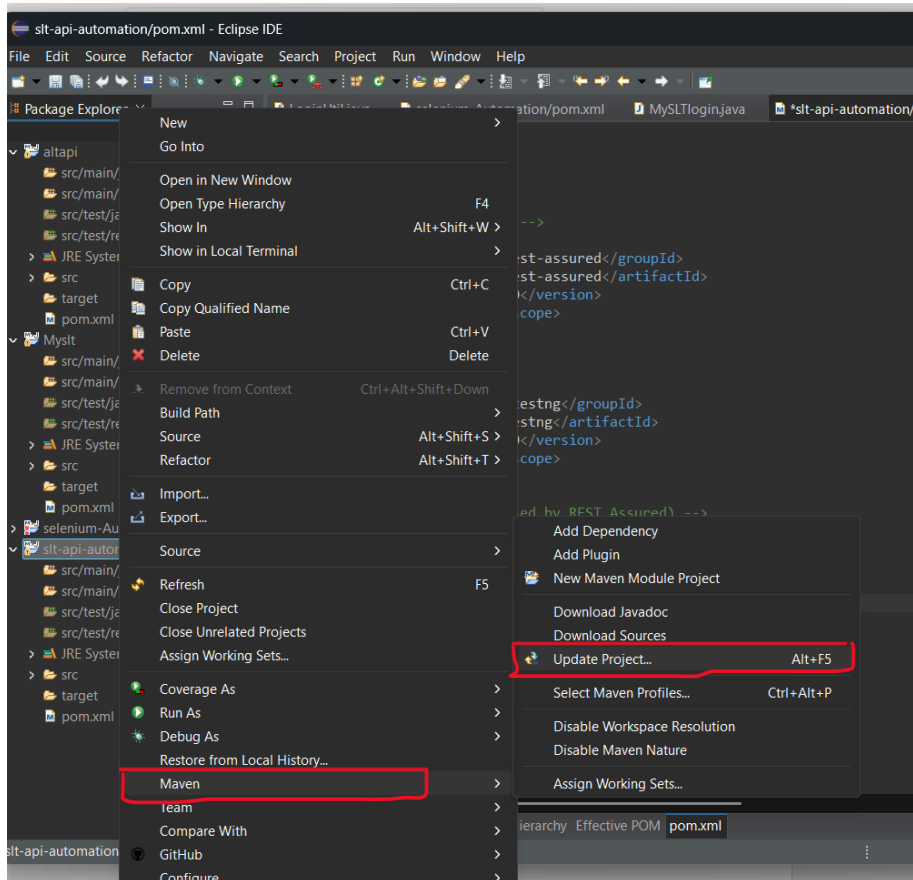
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
4     <groupId>Restassured.api</groupId>
5     <artifactId>Restassured.api</artifactId>
6     <version>0.0.1-SNAPSHOT</version>
7
8     <dependencies>
9         <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
10        <dependency>
11            <groupId>io.rest-assured</groupId>
12            <artifactId>rest-assured</artifactId>
13            <version>5.5.5</version>
14            <scope>test</scope>
15        </dependency>
16
17        <!-- https://mvnrepository.com/artifact/io.rest-assured/json-schema-validator -->
18        <dependency>
19            <groupId>io.rest-assured</groupId>
20            <artifactId>json-schema-validator</artifactId>
21            <version>5.5.5</version>
22        </dependency>
23
24        <!-- https://mvnrepository.com/artifact/io.rest-assured/json-path -->
25        <dependency>
26            <groupId>io.rest-assured</groupId>
27            <artifactId>json-path</artifactId>
28            <version>5.5.5</version>
29        </dependency>
30
31        <!-- https://mvnrepository.com/artifact/io.rest-assured/xml-path -->
32        <dependency>
33            <groupId>io.rest-assured</groupId>
34            <artifactId>xml-path</artifactId>
35            <version>5.5.5</version>
36        </dependency>
37
38        <!-- https://mvnrepository.com/artifact/org.testng/testng -->
39        <dependency>
40            <groupId>org.testng</groupId>
41            <artifactId>testng</artifactId>
42            <version>7.11.0</version>
43        </dependency>
44    </dependencies>
45
46    </project>

```

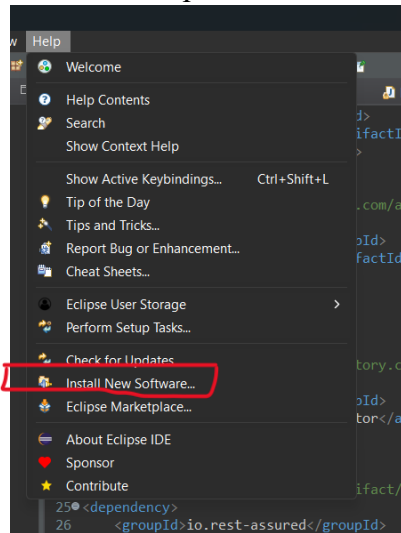
Step 3: Update Maven Project

1. Right-click the project → Maven → Update Project
2. Wait for dependencies to download (check in Maven Dependencies folder)



Step 4: Add Test plugin for eclipse

1.click on help & install new software



2.Then search on google as Testng.org & find eclipse plugin document

2.1.4. Eclipse plug-in

See [the related documentation](#).

2.1.5. Build TestNG from source code

TestNG is also hosted on GitHub, where you can download the source and build the distribution yourself:

```
$ git clone git://github.com/testng-team/testng.git
$ cd testng
```

- Java 11+ is required for running the TestNG for Eclipse plugin v7.8.0 and above.
- Java 8 is required for running the TestNG for Eclipse plugin upto v7.4.0.
- Eclipse 4.2 and above is required. Eclipse 3.x is NOT supported any more, please update your Eclipse to 4.2 or above.

You can use either the [Eclipse Marketplace](#) or the update site.

Install via Eclipse Marketplace

Go to the TestNG page on the Eclipse Market Place and drag the icon called "Install" onto your workspace.

Install from update site

- Select Help / Install New Software...
- Enter the update site URL in "Work with:" field:
 - Update site for release: <https://testng.org/testng-eclipse-update-site>.
- Make sure the check box next to URL is checked and click Next.
- Eclipse will then guide you through the process.

You can also install older versions of the plug-ins [here](#). Note that the URL's on this page are update sites as well, not direct download links.

Build the TestNG Eclipse Plugin from source code

TestNG Eclipse Plugin is [hosted on GitHub](#), you can download the source code and [build by ourselves](#).

3. Then you will get git hub page like this .Copy the url of latest release from here

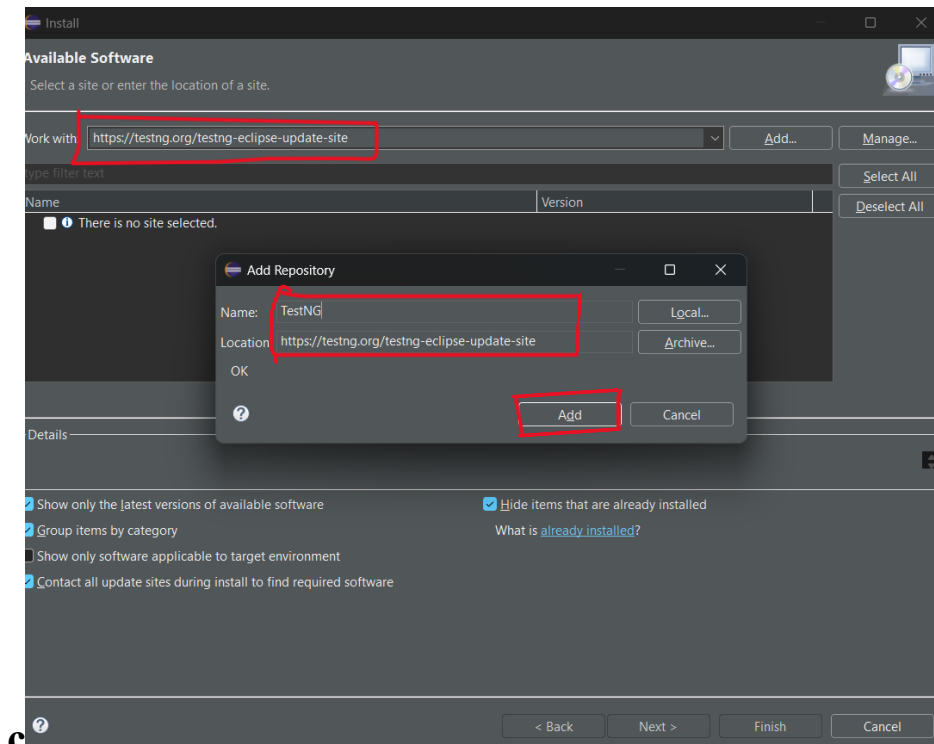
If you want to install previous version of beta, you can pick up one from [here](#).

Enjoy.

Update sites

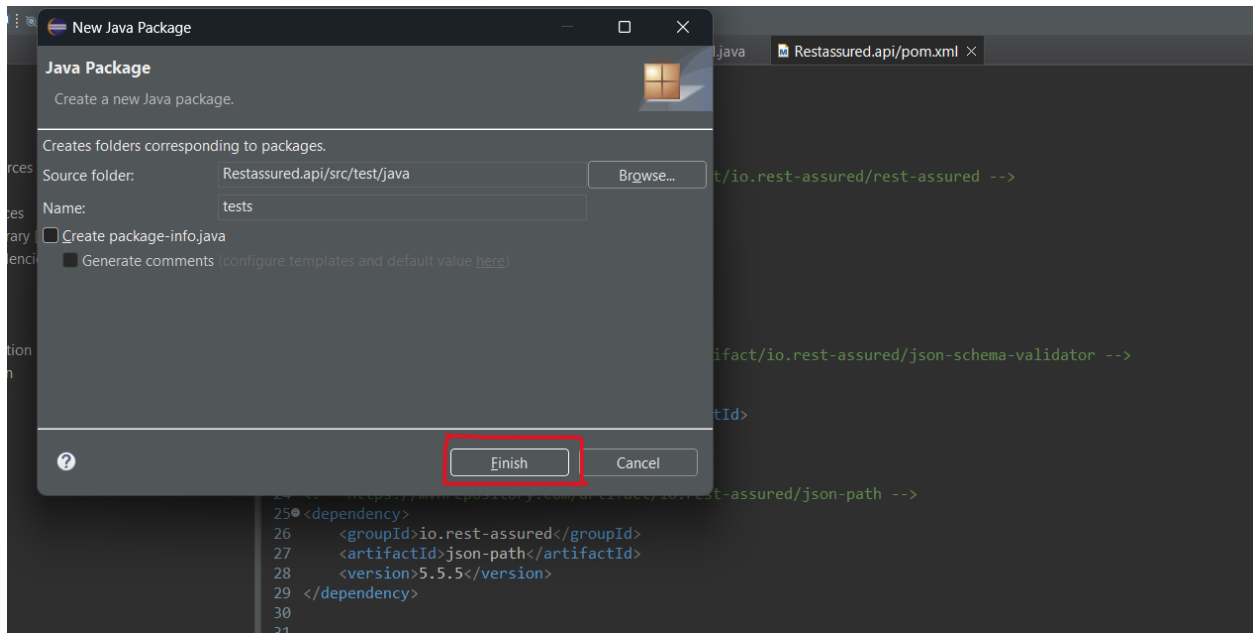
Plugin Version	Online Update-Site	Zipped Update-Site
LATEST RELEASE	https://testng.org/testng-eclipse-update-site	here
LATEST BETA	https://testng.org/testng-eclipse-update-site	here
History:		
7.11.0.202503091801	https://testng.org/testng-eclipse-update-site/7.11.0/	download
7.10.2.202503082113	https://testng.org/testng-eclipse-update-site/7.10.2/	download
7.10.0.202404131040	https://testng.org/testng-eclipse-update-site/7.10.0/	download
7.9.0.202312310355	https://testng.org/testng-eclipse-update-site/7.9.0/	download
7.8.0.202308061717	https://testng.org/testng-eclipse-update-site/7.8.0/	download
7.4.0.202106051955	https://testng.org/testng-eclipse-update-site/7.4.0/	download
7.4.0.202105021622	https://testng.org/testng-eclipse-update-site/7.4.0/	download
7.3.0.202008060412	https://testng.org/testng-eclipse-update-site/7.3.0/	download
7.2.0.202005051752	https://testng.org/testng-eclipse-update-site/7.2.0/	download
7.1.1.202003100345	https://testng.org/testng-eclipse-update-site/7.1.1/	download
7.1.0.202003090500	https://testng.org/testng-eclipse-update-site/7.1.0/	download
7.0.0.201908240652	https://testng.org/testng-eclipse-update-site/7.0.0/	download
6.14.3.201902250526	https://testng.org/testng-eclipse-update-site/6.14.3/	download

4. Then add url in here & click on add .After click on finish button

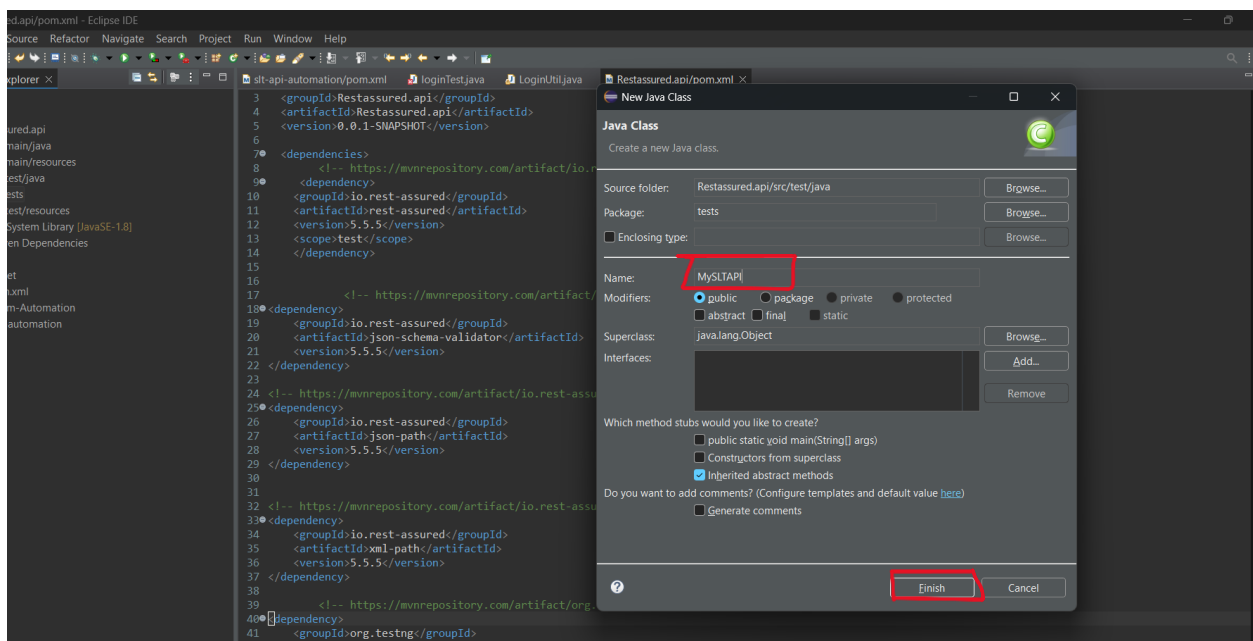


Step 5: Create the Package and Test Class

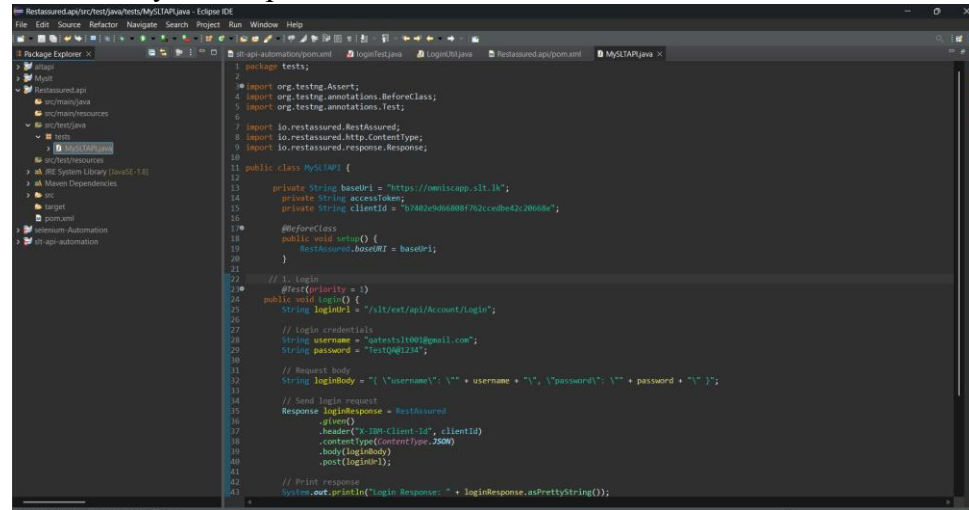
1. Right-click src/test/java → New → Package → Name it: tests



2. Right-click on the package → New → Class → Name it: MySLTAPI

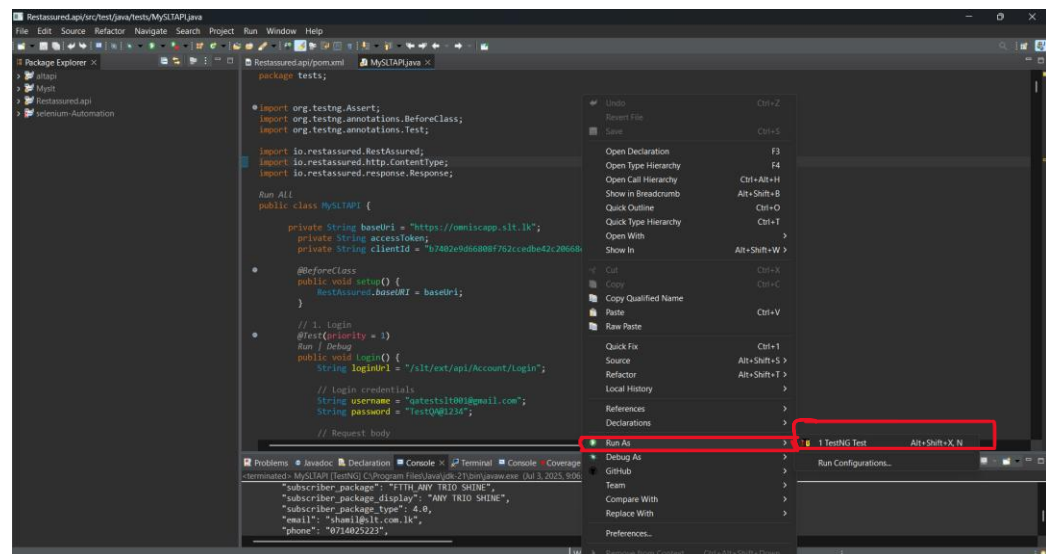


3.then add your script like this

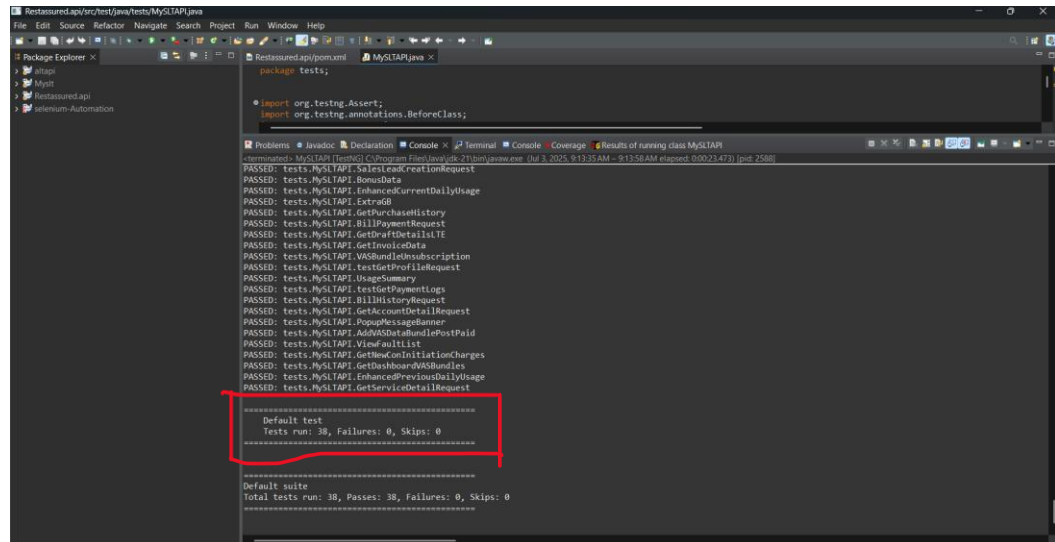


```
1 package tests;
2
3 import org.testng.Assert;
4 import org.testng.annotations.BeforeClass;
5 import org.testng.annotations.Test;
6
7 import io.restassured.RestAssured;
8 import io.restassured.http.ContentType;
9 import io.restassured.response.Response;
10
11 public class MySLTAPI {
12
13     private String baseUrl = "https://omiscapp.slt.lk";
14     private String accessToken;
15     private String clientId = "b7402e9d6808f762cedb42c2066de";
16
17     @BeforeClass
18     public void setup() {
19         RestAssured.baseURI = baseUrl;
20     }
21
22     // 1. Login
23     @Test(priority = 1)
24     public void login() {
25         String loginUrl = "/slt/ext/api/Account/Login";
26
27         // Login credentials
28         String username = "qntests1001@gmail.com";
29         String password = "TestQ@1234";
30
31         // Request body
32         String loginbody = "{ \"username\": \"\" + username + \"\", \"password\": \"\" + password + \"\" }";
33
34         // Send login request
35         Response loginResponse = RestAssured
36             .given()
37             .header("X-APP-Client-Id", clientId)
38             .contentType(ContentType.JSON)
39             .body(loginbody)
40             .post(loginUrl);
41
42         // Print response
43         System.out.println("Login Response: " + loginResponse.asPrettyString());
44     }
45 }
```

4.After adding script right click on it & click on **Run as** button .then you will receive TestNG test .click on it



5. Then script will run this & test result will display bottom of the script in console area like this .



```
package tests;

import org.testng.Assert;
import org.testng.annotations.BeforeClass;

// ... (test methods) ...

=====
Default test
Tests run: 30, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 30, Passes: 30, Failures: 0, Skips: 0
=====
```

How to get Allure report for rest assure



1. Add Allure Maven Plugin to pom.xml

Add this inside your <build><plugins> section:

```
<build>
<plugins>

<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>3.2.5</version>
<configuration>
<!-- Remove or leave empty if not using testing.xml -->
<suiteXmlFiles>
</suiteXmlFiles>
</configuration>
</plugin>

<plugin>
<groupId>io.qameta.allure</groupId>
<artifactId>allure-maven</artifactId>
<version>2.11.2</version>
</plugin>

</plugins>
</build>
<dependencies>
<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
<dependency>
<groupId>io.rest-assured</groupId>
<artifactId>rest-assured</artifactId>
<version>5.5.5</version>
<scope>test</scope>
</dependency>
```

if you're using TestNG:
add this under dependencies

```
</build>
<dependencies>
  <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
  <dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured</artifactId>
    <version>5.5.5</version>
    <scope>test</scope>
  </dependency>

  <dependency>
    <groupId>io.qameta.allure</groupId>
    <artifactId>allure-testng</artifactId>
    <version>2.24.0</version>
  </dependency>
</dependencies>
```

2. Annotate Your Test Classes

Use Allure annotations like:

```
package tests;

import org.testng.Assert;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

import io.qameta.allure.*;
import io.restassured.RestAssured;
import io.restassured.http.ContentType;
import io.restassured.response.Response;

Run All
public class MySLTAPI {

    private String baseUrl = "https://omniscapp.slt.lk";
```

3. Run Your Tests

4. Generate Allure Report

Option A: Install Allure CLI (Recommended)

Install Allure CLI globally:

Windows (via Scoop):

```
Microsoft Windows [Version 10.0.26100.4484]
(c) Microsoft Corporation. All rights reserved.

D:\SLT QA Reports>scoop install allure
Updating Scoop...
Updating Buckets...
* 2a8f79cc9bcb uv: Update to version 0.7.19 main 3 hours ago
* f8d29a52b4e1 trid: Update to version 2.24-25.07.02 main 3 hours ago
* ddf39cb85fa7 ov: Update to version 0.42.1 main 3 hours ago
* 2e63b7ab8cd6 garnet: Update to version 1.0.74 main 3 hours ago
* b94273b4c33e dolt: Update to version 1.55.4 main 3 hours ago
* 1adfe2d30704 docker: Update to version 28.3.1 main 3 hours ago
* b5deb45c7132 cc65: Update to version 16036501834 main 3 hours ago
* 5c971600933c syft: Update to version 1.28.0 main 8 hours ago
* 1ecace06d8d0 ollama: Update to version 0.9.5 main 8 hours ago
* 996987daf9ea mongodb: Update to version 8.1.2 main 8 hours ago
* 296a8824d417 jj: Update to version 0.31.0 main 8 hours ago
* 3d6d55f7de43 gtype: Update to version 0.95.0 main 8 hours ago
* b49b12b097cb git-annex: Update to version 10.20250606 main 8 hours ago
* 7ff1511c8426 flyctl: Update to version 0.3.148 main 8 hours ago
* 69db7e83396f aws: Update to version 2.27.48 main 8 hours ago
* e7dcdd483611 terragrunt: Update to version 0.82.4 main 12 hours ago
* 822150c74060 slang: Update to version 2025.12 main 12 hours ago
* 74a6418b2651 edgedriver: Update to version 138.0.3351.65 main 12 hours ago
* c2886418b1e8 coder: Update to version 2.23.2 main 12 hours ago
* 32c7f20b3679 cc65: Update to version 16027768287 main 12 hours ago
* 20d4f90e0912 bitwarden-cli: Update to version 2025.6.1 main 12 hours ago
* f9c29006750b quarkus-cli: Update to version 3.24.2 main 16 hours ago
* 1208fccc6660 nbn: Update to version 8.4.10 main 16 hours ago
```

Then run:

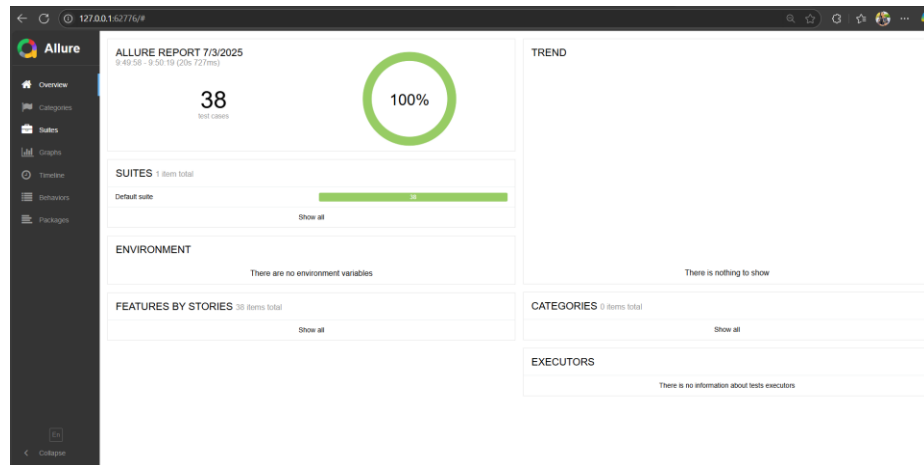
```
allure generate allure-results --clean -o allure-report
```


```
allure open allure-report
```

```
Microsoft Windows [Version 10.0.26100.4484]
(c) Microsoft Corporation. All rights reserved.

G:\Restassured.api>allure generate allure-results --clean -o allure-report
Invalid plugin directory C:\Users\User\scoop\apps\allure\current\plugins\junit-xml-plugin
Report successfully generated to allure-report
G:\Restassured.api>allure open allure-report
Starting web server...
Server started at <http://127.0.0.1:62776>. Press <Ctrl+C> to exit
```

Then you will receive allure report like this :



Allure

Overview

Categories

Suites

Graphs

Timeline

Behaviors

Packages

En

Collapse

Suites

ordername↑duration↑status↑Status: 003800

Marks: [] [] [] [] [] []

▼ Default suite38

▼ Default test38

▼ tests.MySLTAPI38

✓ #2 AddVASDataBundlePostPaid380ms

✓ #3 BillHistoryRequest325ms

✓ #4 BillPaymentRequest315ms

✓ #5 BillStatusRequest317ms

✓ #6 BonusData340ms

✓ #7 CheckCallForwardingStatus309ms

✓ #35 checkOfferAvailability903ms

✓ #8 CreateFaultRequest316ms

✓ #9 EnhancedCurrentDailyUsage259ms

✓ #10 EnhancedPreviousDailyUsage333ms

✓ #11 ExtraGB326ms

✓ #12 FreeData295ms

✓ #13 GetAccountDetailRequest386ms

✓ #36 getBannerUris215ms

✓ #14 GetBBPackages339ms

✓ #15 GetDashboardVASBundles316ms

✓ #16 GetDraftDetails372ms

No item selected