**Rest Assured**

RestAssured is an API/Library through which we can automate RestAPI.

***Pre-requisites:***

1. Java 9+ & Eclipse
2. TestNG
3. Maven

***Dependencies:***

**rest-assured**

<dependency>

<groupId>io.rest-assured</groupId>

<artifactId>rest-assured</artifactId>

<version>5.5.5</version>

<scope>test</scope>

</dependency>

**json-path**

<dependency>

<groupId>io.rest-assured</groupId>

<artifactId>json-path</artifactId>

<version>5.5.5</version>

<scope>test</scope>

</dependency>

**Json**

<!-- https://mvnrepository.com/artifact/org.json/json -->

<dependency>

<groupId>org.json</groupId>

<artifactId>json</artifactId>

<version>20250107</version>

</dependency>

**scribejava-apis**

<!--https://mvnrepository.com/artifact/com.github.scribejava/scribejava-apis -->

<dependency>

<groupId>com.github.scribejava</groupId>

<artifactId>scribejava-apis</artifactId>

<version>8.3.1</version>

<scope>test</scope>

</dependency>

**json-schema-validator**

<!--https://mvnrepository.com/artifact/com.github.java-json-tools/json schemavalidator -->

<dependency>

<groupId>com.github.java-json-tools</groupId>

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

<version>2.2.14</version>

<scope>test</scope>

</dependency>

**xml-schema-validator**

**Gson**

**Testng**

<!-- https://mvnrepository.com/artifact/org.testng/testng -->

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>7.8.0</version>

<scope>test</scope>

</dependency>

**http request**

*get*

*post*

*put*

*delete*

***gerkin – Keywords(Methods)***

*Static Package: ---*

**import** **static** io.restassured.RestAssured.\*;

**import** **static** io.restassured.matcher.RestAssuredMatchers.\*;

**import** **static** org.hamcrest.Matchers.\*;

==========================================================

***How many ways we create request body: ----***

1. HashMap
2. Using org.json library
3. Using POJO (Plane Old Java Object)
4. Using External JSON file.

**Use Express.js to serve XML (closest to json-server idea)**

Create a simple Node.js server:

1. **Init project**

mkdir xml-server

cd xml-server

npm init -y

npm install express

npm install cookie-parser

1. server.js

const express = require("express");

const fs = require("fs");

const cookieParser = require("cookie-parser");

const app = express();

const port = 3000;

// middleware to parse cookies

app.use(cookieParser());

// Serve XML and set a cookie

app.get("/store", (req, res) => {

  res.set("Content-Type", "application/xml");

  // set a cookie (valid for 1 minute)

  res.cookie("user", "TestUser", {

    httpOnly: true,

    maxAge: 60000

  });

  // read cookies from request

  console.log("Cookies received from client:", req.cookies);

  const user = req.cookies.user || "Guest";

  // Load XML file

  const xmlData = fs.readFileSync("store.xml", "utf8");

  // send XML with a comment showing cookie info

  res.send(`<!-- Hello ${user} -->\n${xmlData}`);

});

// clear cookies

app.get("/logout", (req, res) => {

  res.clearCookie("user");

  res.send("Cookie cleared!");

});

app.listen(port, () => {

  console.log(`XML server running at http://localhost:${port}/store`);

});

1. **store.xml**

<store>

<book>

<title>Sayings of the Century</title>

<author>Nigel Rees</author>

<price>8.95</price>

</book>

<book>

<title>Sword of Honour</title>

<author>Evelyn Waugh</author>

<price>12.99</price>

</book>

<book>

<title>1984</title>

<author>George Orwell</author>

<price>6.99</price>

</book>

</store>