**I do not have rest assure setup so will not be able to do the setup in my local**

**API Automation**

On the following endpoint - [api.coindesk.com/v1/bpi/currentprice.json](https://api.coindesk.com/v1/bpi/currentprice.json), automate the following

1. Send the GET request

2. Verify the response contains

a. There are 3 BPIs

i. USD

ii. GBP

iii. EUR

b. The GBP ‘description’ equals ‘British Pound Sterling’.

**—-> Solution:**

To automate API testing using **RestAssured** in Java, you can create a test script to send a GET request to the endpoint https://api.coindesk.com/v1/bpi/currentprice.json and verify that:

1. The response contains 3 BPIs: USD, GBP, and EUR.
2. The description of GBP is "British Pound Sterling".

**Maven dependencies**

Add **RestAssured** and **JUnit** in pom.xml file:

<dependencies>

<!-- RestAssured for API testing -->

<dependency>

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

<artifactId>rest-assured</artifactId>

<version>5.2.0</version> <!-- Or the latest version -->

<scope>test</scope>

</dependency>

<!-- JUnit for testing -->

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-api</artifactId>

<version>5.8.2</version> <!-- Or the latest version -->

<scope>test</scope>

</dependency>

<!-- JSON parsing libraries -->

<dependency>

<groupId>com.fasterxml.jackson.core</groupId>

<artifactId>jackson-databind</artifactId>

<version>2.13.0</version> <!-- Or the latest version -->

</dependency>

</dependencies>

**Coding API Automation:**

import io.restassured.RestAssured;

import io.restassured.response.Response;

import org.junit.jupiter.api.Test;

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

import static org.hamcrest.Matchers.\*;

public class CoinDeskAPITest {

// Base URI of the API

private static final String BASE\_URL = "https://api.coindesk.com/v1/bpi/currentprice.json";

@Test

public void testGetCoinDeskAPI() {

// Step 1: Send GET request to the endpoint

Response response = RestAssured.get(BASE\_URL);

// Step 2: Verify the response status code is 200 (OK)

response.then().statusCode(200);

// Step 3: Verify the response contains 3 BPIs: USD, GBP, and EUR

response.then().body("bpi", hasKey("USD"));

response.then().body("bpi", hasKey("GBP"));

response.then().body("bpi", hasKey("EUR"));

// Step 4: Verify the 'description' of GBP equals 'British Pound Sterling'

response.then().body("bpi.GBP.description", equalTo("British Pound Sterling"));

}

}