## **REST Assured GET Request**

In REST Assured, a **GET request** is used to retrieve data from a given endpoint. Here's a **step-by-step guide** to performing a GET request in REST Assured along with code and explanation.

### **V**

### **Basic Structure of a GET Request in REST Assured**

### Pependency (Maven)

Make sure you have this in your pom.xml:

# **☑** Simple GET Request Example

```
java
import io.restassured.RestAssured;
import io.restassured.response.Response;
public class GetExample {
    public static void main(String[] args) {
        // Base URI
        RestAssured.baseURI = "https://jsonplaceholder.typicode.com";
        // Sending GET request to /posts/1
        Response response = RestAssured
                                 .given()
                                 .when()
                                 .get("/posts/1");
        // Print response body
        System.out.println("Response Body:");
        System.out.println(response.getBody().asString());
        // Status Code
        System.out.println("Status Code: " + response.getStatusCode());
        System.out.println("Content-Type: " + response.getHeader("Content-Type"));
    }
}
```

# Explanation

Part	Description
RestAssured.baseURI	Sets the base URL for all requests
.given()	Prepares the request specification
.when()	Triggers the actual HTTP request
.get("/endpoint")	Sends the GET request to the given endpoint
.getBody().asString()	Converts the response body to a string
.getStatusCode()	Gets the HTTP status code (e.g., 200)
.getHeader()	Fetches specific headers from the response

### **✓** Validate GET Response with Assertions

You can use **Hamcrest Matchers** for validation:

```
java
import static io.restassured.RestAssured.*;
import static org.hamcrest.Matchers.*;
public class GetWithAssertions {
    public static void main(String[] args) {
        baseURI = "https://jsonplaceholder.typicode.com";
        given().
        when().
            get("/posts/1").
        then().
            assertThat().
            statusCode(200).
            body("userId", equalTo(1)).
            body("id", equalTo(1));
    }
```

### **Common Methods in GET**

Method	Description	
getStatusCode()	Status code of response	
<pre>getBody().asString()</pre>	Response body	
<pre>getTime()</pre>	Response time in ms	
<pre>jsonPath().get("key")</pre>	Parse specific JSON fields	

Would you like me to provide:

- GET request with query parameters?
- GET request with headers?
- Integration with TestNG or JUnit?

Let me know what you're building!

Great! Let's go through how to **validate the status code**, **headers**, and **response body** in a **REST Assured GET request** using assertions.

# Full Example with Validations

```
java
import static io.restassured.RestAssured.*;
import static org.hamcrest.Matchers.*;
import io.restassured.response.Response;
public class GetValidationExample {
    public static void main(String[] args) {
        // Base URI
        baseURI = "https://jsonplaceholder.typicode.com";
        // Validate status code, headers, and response body
        given().
        when().
            get("/posts/1").
        then().
            assertThat().
            statusCode(200). // 
Status Code Validation
            header("Content-Type", equalTo("application/json; charset=utf-8")). // ✓ Header
Validation
            body("userId", equalTo(1)). // <a href="#">✓</a> Response Body Field Validation
            body("id", equalTo(1)).
            body("title", not(empty())); // ✓ Field not empty check
    }
}
```

## Explanation of Validations

Validation	Code	Meaning
Status Code	statusCode(200)	Checks if response returned HTTP 200
Header	<pre>header("Content-Type", equalTo("application/json; charset=utf-8"))</pre>	Validates exact value of a response header
Body Field Equals	<pre>body("userId", equalTo(1))</pre>	Verifies if <b>userId</b> is 1
Field Not Empty	<pre>body("title", not(empty()))</pre>	Ensures the <b>title</b> is not an empty string

# Extract and Print for Debugging (Optional)

If you want to print and verify manually:

```
java

Response response = get("/posts/1");

System.out.println("Status Code: " + response.getStatusCode());
```



```
System.out.println("Header Content-Type: " + response.getHeader("Content-Type"));
System.out.println("Body: " + response.getBody().asPrettyString());
```

Would you like to validate:

- A nested JSON field?
- A list/array in the response?
- Use **TestNG/JUnit** assertions instead?

Let me know how you'd like to proceed!