

Build.gradle (api-automation):

```
plugins {  
    id 'java'  
}  
  
group = 'org.example'  
version = '1.0-SNAPSHOT'  
  
repositories {  
    mavenCentral()  
}  
  
dependencies {  
    testImplementation group: 'org.testng', name: 'testng', version:  
'7.5.1'  
    implementation group: 'org.json', name: 'json', version: '20231013'  
    testImplementation group: 'io.rest-assured', name: 'rest-assured',  
version: '5.4.0'  
}  
  
test {  
    useTestNG()  
}
```

package APITest.java:

```
package apiauto;

import org.testng.annotations.Test;
import org.testng.Assert;
import org.testng.annotations.BeforeClass;
import org.apache.http.HttpStatus;
import io.restassured.RestAssured;
import io.restassured.response.Response;
import io.restassured.http.ContentType;

public class APITest {

    private static String URI = "https://reqres.in/api/users";

    @BeforeClass
    public static void setupURL() {
        RestAssured.baseURI = URI;
    }

    // Test GET
    @Test
    public void testGet() {
        Response response = RestAssured.given().when().get(URI +
"?page=2");
        int statusCode = response.getStatusCode();
        System.out.println("GET Status Code: " + statusCode);
        Assert.assertEquals(response.getStatusCode(), HttpStatus.SC_OK);

        Assert.assertTrue(response.getBody().asString().contains("michael.lawson@reqres.in"));

        Assert.assertTrue(response.getBody().asString().contains("lindsay.ferguson@reqres.in"));
    }

    // Test POST
    @Test
    public void testPost() {
        String json = "{\"name\":\"morpheus\",\"job\":\"leader\"}";
        Response response =
RestAssured.given().contentType(ContentType.JSON).body(json).when().post(URI);

        int statusCode = response.getStatusCode();
        System.out.println("POST Status Code: " + statusCode);
        Assert.assertEquals(statusCode, HttpStatus.SC_CREATED);
    }

    // Test PUT
    @Test
    public void testPut() {
        String json = "{\"name\":\"morpheus\",\"job\":\"manager\"}";
        Response response =
RestAssured.given().contentType(ContentType.JSON).body(json).when().put(URI + "/2");

        int statusCode = response.getStatusCode();
        System.out.println("PUT Status Code: " + statusCode);
        Assert.assertEquals(statusCode, HttpStatus.SC_OK);
    }
}
```

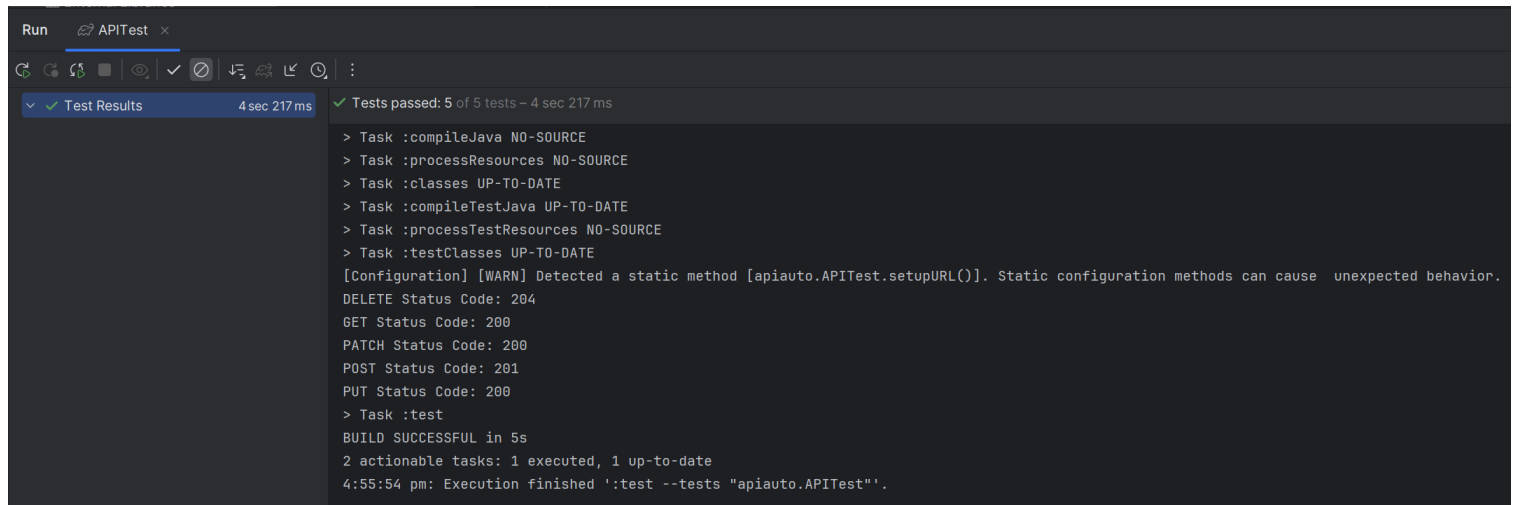
```

// Tes PATCH
@Test
public void testPatch() {
    String json = "{\"name\":\"morpheus\",\"job\":\"manager\"}";
    Response response =
RestAssured.given().contentType(ContentType.JSON).body(json).when().patch(U
RI + "/2");
    int statusCode = response.getStatusCode();
    System.out.println("PATCH Status Code: " + statusCode);
    Assert.assertEquals(statusCode, HttpStatus.SC_OK);
}

// Tes DELETE
@Test
public void testDelete() {
    Response response = RestAssured.given().when().delete(URI + "/2");
    int statusCode = response.getStatusCode();
    System.out.println("DELETE Status Code: " + statusCode);
    Assert.assertEquals(statusCode, HttpStatus.SC_NO_CONTENT);
}
}

```

Terminal results:



```
Run  APIAuto x
Test Results 4 sec 217 ms  Tests passed: 5 of 5 tests - 4 sec 217 ms
> Task :compileJava NO-SOURCE
> Task :processResources NO-SOURCE
> Task :classes UP-TO-DATE
> Task :compileTestJava UP-TO-DATE
> Task :processTestResources NO-SOURCE
> Task :testClasses UP-TO-DATE
[Configuration] [WARN] Detected a static method [apiauto.APIAuto.setupURL()]. Static configuration methods can cause unexpected behavior.
DELETE Status Code: 204
GET Status Code: 200
PATCH Status Code: 200
POST Status Code: 201
PUT Status Code: 200
> Task :test
BUILD SUCCESSFUL in 5s
2 actionable tasks: 1 executed, 1 up-to-date
4:55:54 pm: Execution finished ':test --tests "apiauto.APIAuto"'.
```