To automate functionalities using https://reqres.in/ REST API services.

Source code:

package com.PhaseEndProject;

import static org.hamcrest.Matchers.is;

import java.util.HashMap;

import java.util.UUID;

import org.junit.Assert;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

import io.restassured.path.json.JsonPath;

import io.restassured.response.Response;

public class Reqres extends TestBase

{

HashMap<String, String> map = new HashMap<String, String>();

        int id;

        Response response;

        JsonPath jsonPath;

        @Test(priority=0)

        public void createPayload()

        {

                map.put("name", "morpheus");

                map.put("job", "Engineer");

                RestAssured.baseURI = "https://reqres.in/";

                RestAssured.basePath = "/api/users";

                logger.info("Payload created");

        }

```java
@Test(priority=1)
public void createResource()
{
        response = RestAssured
                        .given()
                                .contentType("application/json")
                                .body(map)
                        .when()
                                .post()
                        .then()
                                .statusCode(201)
                                .log().all()
                                .extract().response();


        logger.info("ResourceCreated Successfully");
        jsonPath = response.jsonPath();
        //id = jsonPath.get("id");
        //System.out.println(id);
}

@Test(priority=2)
public void verifyResource()
{
        System.out.println("Id = " + id);
        RestAssured
        .given()
                .contentType("application/json")
        .when()
                .get("https://reqres.in/api/users?page=2"+id)
        .then()
          .assertThat()
          .statusCode(200)
```

```java
                .log().all();

        logger.info("Resource verify sucefully");
        Assert.assertTrue(jsonPath.get("name").equals("morpheus"));
}


@Test(priority=3)
public void updateResource()
{
        map.put("name", "morpheus");
        map.put("job", "Painter");
        RestAssured.baseURI = "https://reqres.in/";
        RestAssured.basePath = "/api/users/2" + id;

        RestAssured
        .given()
                .contentType("application/json")
                .body(map)
        .when()
                .put()
        .then()
                .statusCode(200)
                .log().all()
                .assertThat()
                .body("job", is("Painter"));

        logger.info("Resources Updated Sucessfully");
}
```

```java
@Test(priority=4)
    public void deleteResource()
    {
            RestAssured.baseURI = "https://reqres.in/";
            RestAssured.basePath = "/api/users/2" + id;


            RestAssured
                .given()
                        .contentType("application/json")
                .when()
                        .delete()
                .then()
                        .statusCode(204);


            logger.info("Resource deleted");

    }
}
```