Repo link: https://github.com/hindujar/phase3-lesson-end-project3.git

PROJECT

Aim:

To Handling the Test Data and Executing It in Multiple Environments for User Module of an Application

Description:

1.Separate Test Data from Test Scripts:

Keep your test data separate from your test scripts. This makes it easier to manage and update data independently.Use Test Data Files:Store test data in external files (e.g., CSV, Excel, JSON) that can be easily modified without changing the test scripts.

2.Generate Test Data:

For dynamic data, consider generating test data programmatically to ensure consistency and avoid hardcoding.

3.Data Variations:

Include a variety of test cases with different data scenarios, including edge cases and invalid inputs.

4.Environment Configuration:

Maintain separate configuration files for different environments (e.g., development, testing, production).

5.Environment Variables:

Use environment variables to dynamically set configuration parameters like URLs, database connections, and credentials.

6.Parameterization:

Parameterize your test scripts to accept input parameters that define the target environment.

7.Test Automation Tools:

Leverage test automation tools that support the configuration of multiple environments (e.g., Selenium, JUnit, TestNG).

Features file:

Feature: Implement The Lesson End Project

Scenario: Rest API testing on reqres.in

Given User send a Post request to create a user and validates status

Given User sends a Get request to get a user and validates status

Given User sends a get request to get list of users and validates status

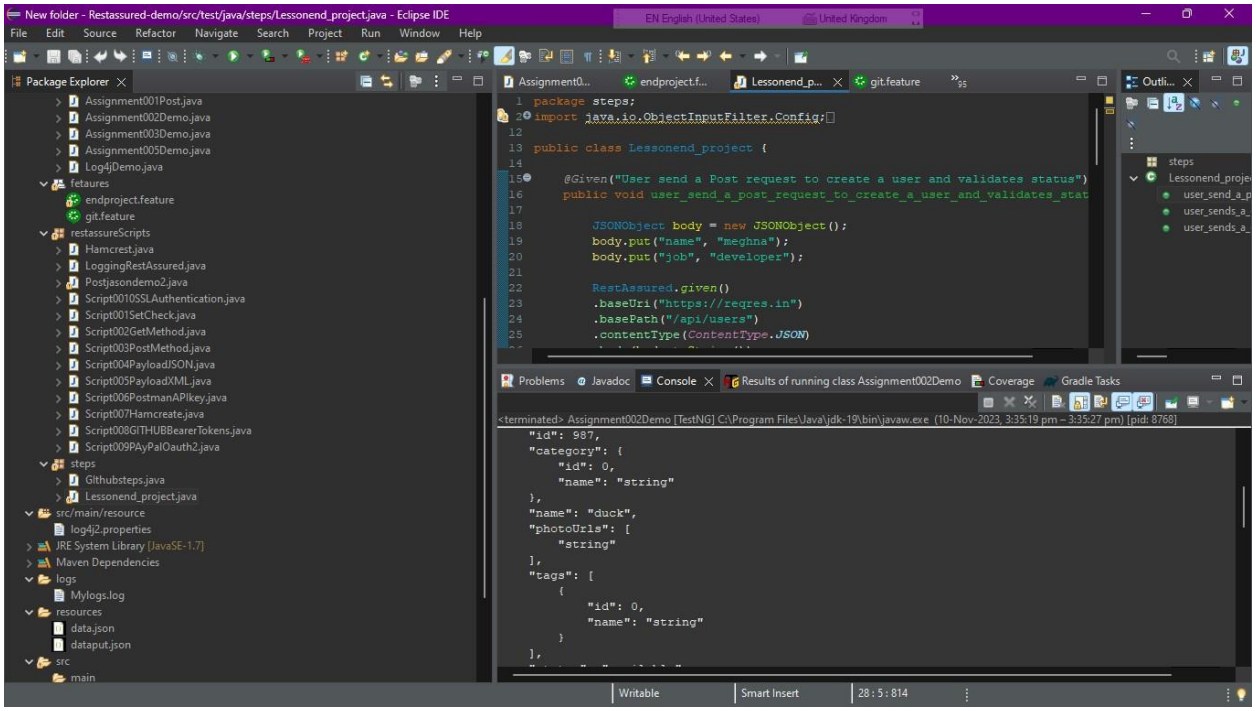
Source code:

```
package steps;
import java.io.ObjectInputFilter.Config;
import org.json.JSONObject;
import io.cucumber.java.en.Given;
import io.restassured.RestAssured;
import io.restassured.config.LogConfig;
import io.restassured.http.ContentType;
import io.restassured.internal.http.AuthConfig;
import static io.restassured.RestAssured.config;

public class LessonEndproject {


    @Given("User send a Post request to create a user and validates status")
    public void user_send_a_post_request_to_create_a_user_and_validates_status() {

        JSONObject body = new JSONObject();
        body.put("name", "meghna");
        body.put("job", "developer");

        RestAssured.given()
        .baseUri("https://reqres.in")
```

```
        .basePath("/api/users")
        .contentType(ContentType.JSON)
        .body(body.toString())
        .when().post()
        .then().statusCode(201).log().ifError(); // log if there an error


}


  @Given("User sends a Get request to get a user and validates status")
  public void user_sends_a_get_request_to_get_a_user_and_validates_status() {



                JSONObject body = new JSONObject();
                body.put("email", "meghna@gmail.com");
                body.put("password", "pas123");



                RestAssured.given() .baseUri("https://reqres.in")
                .contentType(ContentType.JSON) .body(body.toString())


                .when().post("/api/register")
                .then().statusCode(200)
```

```
                    ;


    }


    @Given("User sends a get request to get list of users and validates status")
    public void user_sends_a_get_request_to_get_list_of_users_and_validates_status() {


        RestAssured.given()
        .baseUri("https://reqres.in")
        .basePath("/api/unknown")
        .when().get()
        .then().statusCode(200).log().all();
    }

}
```

OUTPUT:


New folder - Restassured-demo/src/test/java/steps/Lessonend_project.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment001Post.java
Assignment002Demo.java
Assignment003Demo.java
Assignment005Demo.java
Log4jDemo.java
fetaures
endproject.feature
git.feature
restassureScripts
Hamcrest.java
LoggingRestAssured.java
Postjasondemo2.java
Script0010SSLAuthentication.java
Script001SetCheck.java
Script002GetMethod.java
Script003PostMethod.java
Script004PayloadJSON.java
Script005PayloadXML.java
Script006PostmanAPIkey.java
Script007Hamcreate.java
Script008GITHUBBearerTokens.java
Script009PAyPalOauth2.java
steps
Githubsteps.java
Lessonend_project.java
src/main/resource
log4j2.properties
JRE System Library [JavaSE-1.7]
Maven Dependencies
logs
Mylogs.log
resources
data.json
dataput.json
src
main
Assignment0...
endproject.f...
Lessonend_p...
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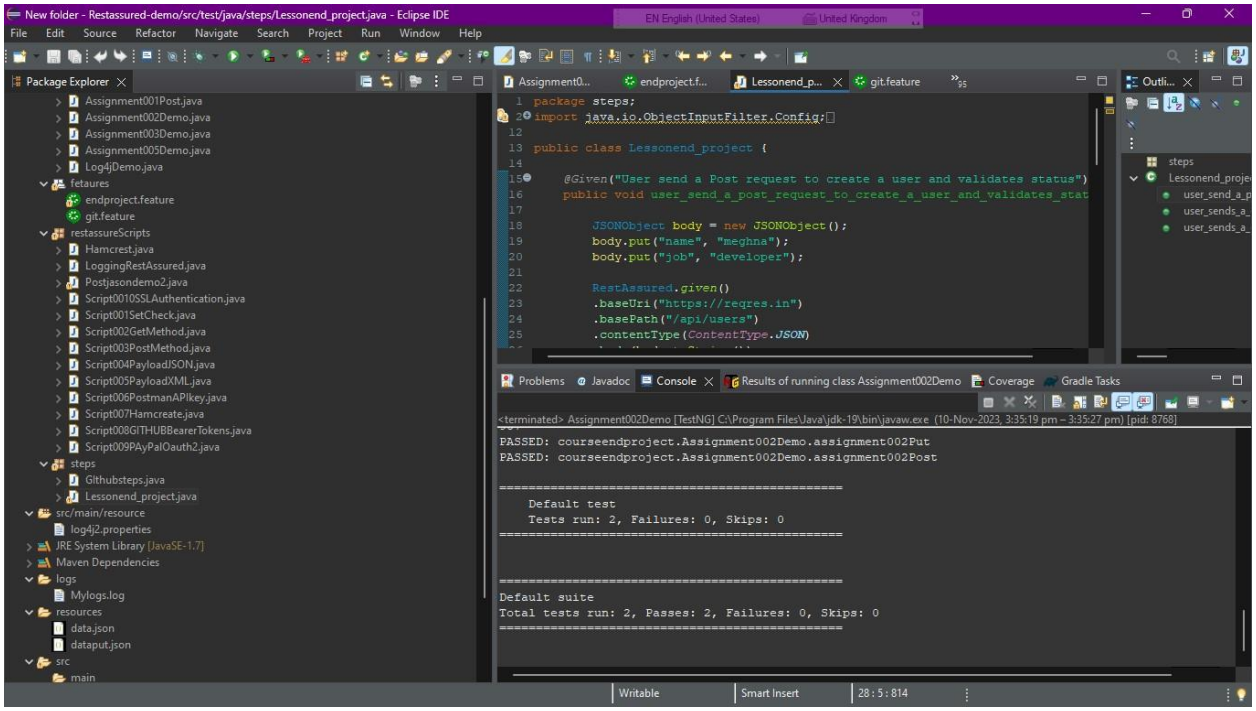
Problems Javadoc Console Results of running class Assignment002Demo Coverage Gradle Tasks
<terminated> Assignment002Demo [TestNG] C:\Program Files\Java\jdk-19\bin\javaw.exe (10-Nov-2023, 3:35:19 pm – 3:35:27 pm) [pid: 8768]
"id": 987,
"category": {
"id": 0,
"name": "string"
},
"name": "duck",
"photoUrls": [
"string"
],
"tags": [
{
"id": 0,
"name": "string"
}
],
Writable
Smart Insert
28 : 5 : 814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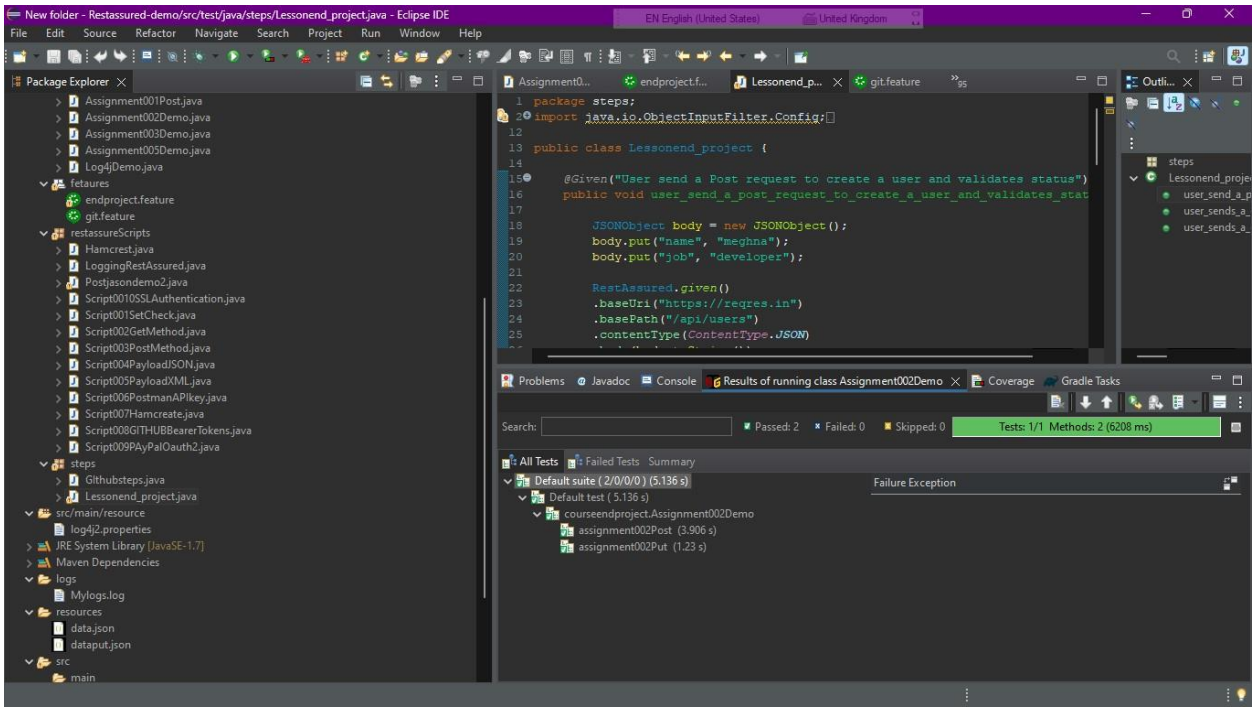
PASSED: courseendproject.Assignment002Demo.assignment002Put
PASSED: courseendproject.Assignment002Demo.assignment002Post
Default test
Tests run: 2, Failures: 0, Skips: 0
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
Writable
Smart Insert
28 : 5 : 814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Console
Results of running class Assignment002Demo
Coverage
Gradle Tasks
Search:
Passed: 2
Failed: 0
Skipped: 0
Tests: 1/1 Methods: 2 (6208 ms)
All Tests
Failed Tests
Summary
Default suite (2/0/0/0) (5.136 s)
Default test (5.136 s)
courseendproject.Assignment002Demo
assignment002Post (3.906 s)
assignment002Put (1.23 s)
Failure Exception