

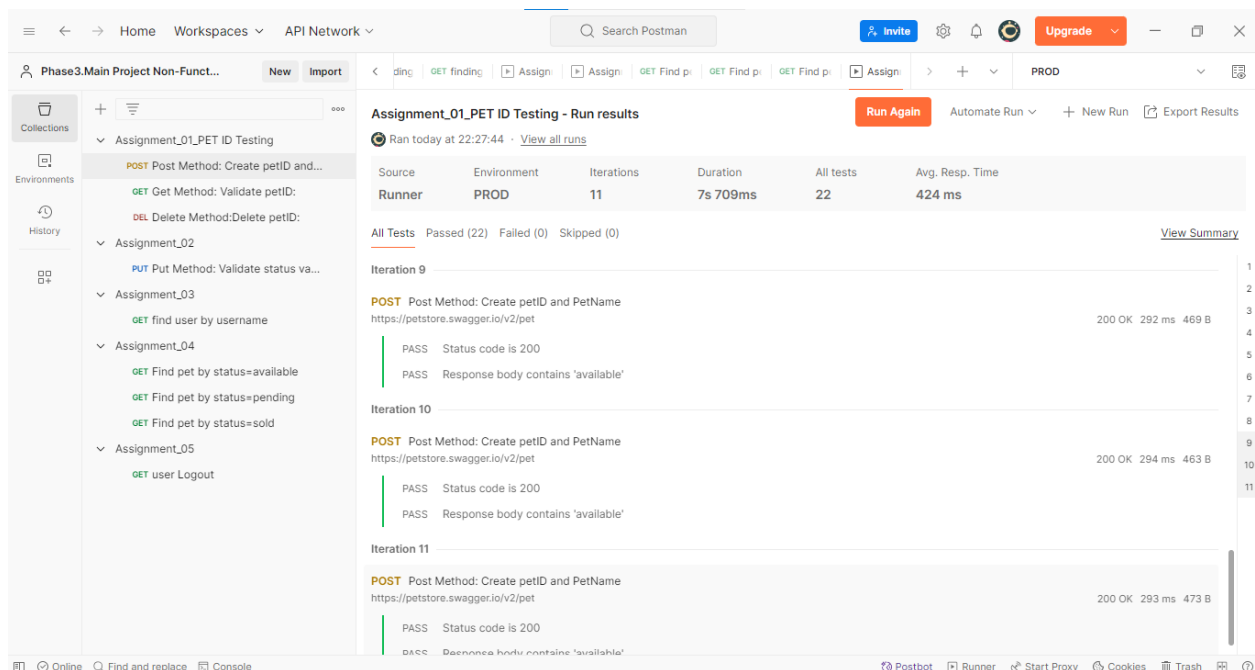
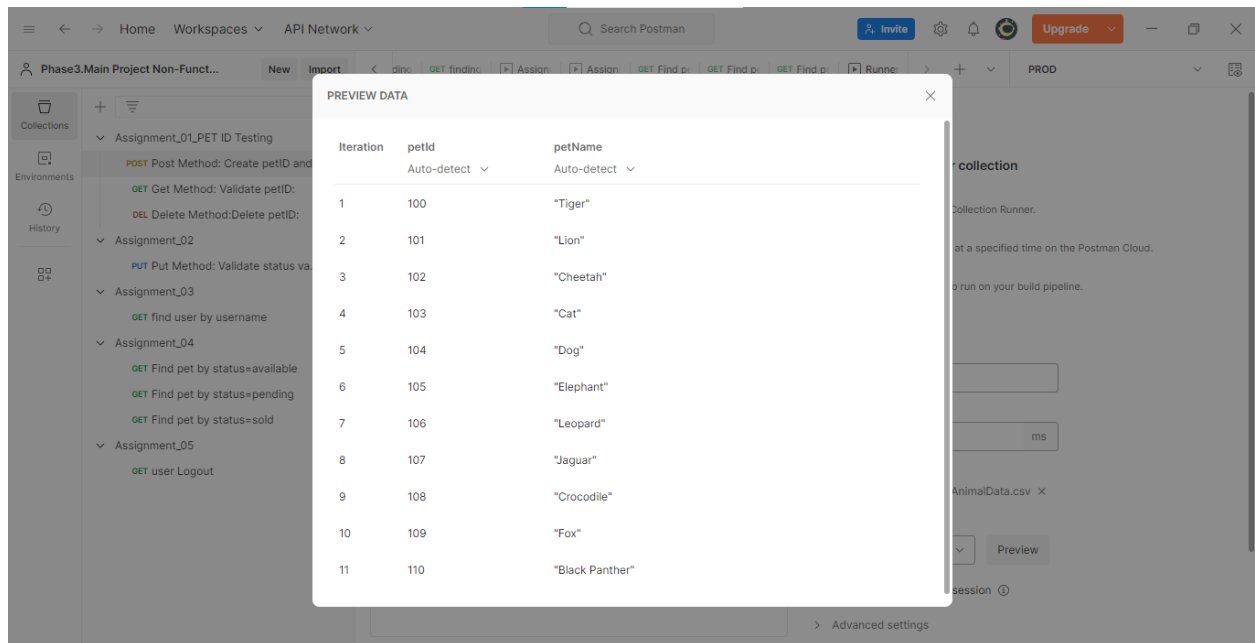
Phase 3 Final Project Assessment

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Non-Functional Testing Using Postman, REST Assured, and JMeter.

Screenshots:

Postman



Postman interface showing a GET request to `https://petstore.swagger.io/v2/pet/105`. The request is titled "Assignment_01_PET ID Testing / Get Method: Validate petID:". The response status is 200 OK, Time: 295 ms, Size: 468 B. The response body is a JSON object:

```
1 {
2   "id": 105,
3   "category": {
4     "id": 0,
5     "name": "string"
6   },
7   "name": "Elephant",
8   "photoUrls": [
9     "string"
10  ],
11  "tags": [
12    {
13      "id": 0,
14      "name": "string"
15    }
16  ]
17 }
```

The Tests tab shows a script:

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
```

Postman interface showing a DELETE request to `https://petstore.swagger.io/v2/pet/109`. The request is titled "Assignment_01_PET ID Testing / Delete Method:Delete petID:". The response status is 200 OK, Time: 293 ms, Size: 371 B. The Tests tab shows a script:

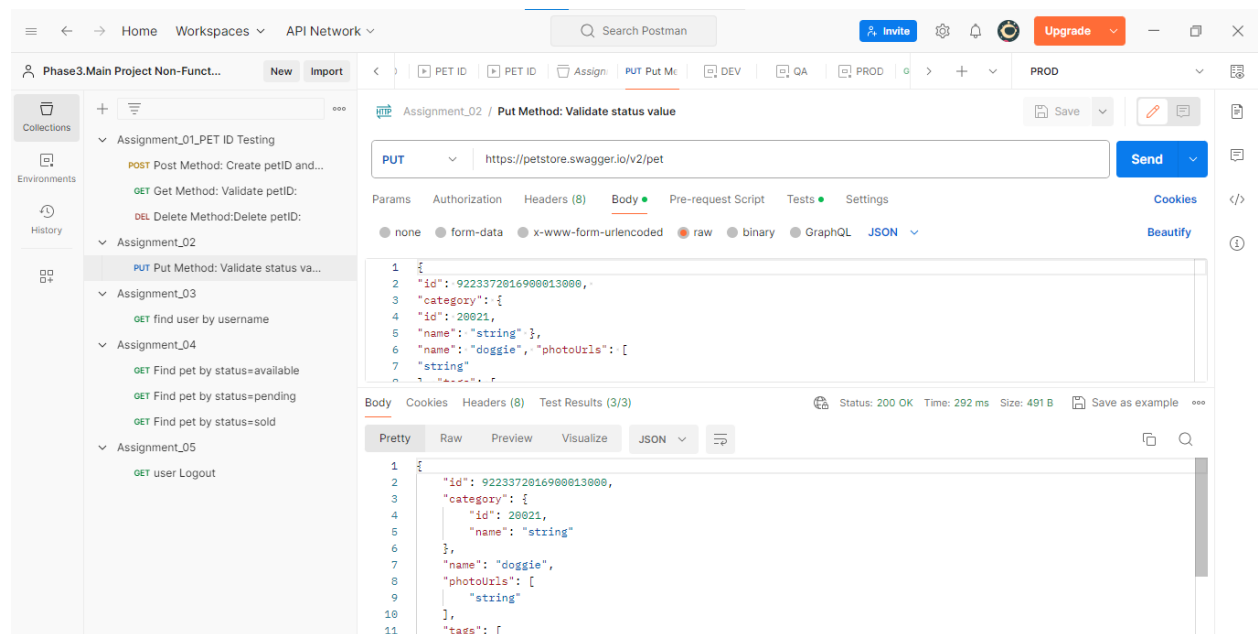
```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
```

The Test Results tab shows a single test result:

Test	Result
Status code is 200	PASS

```
C:\Users\Dell\eclipse-workspace\Phase 3 Final Project Assessment JMeter Postman RestAssured\Phase3.FinalProjectPostman>newman run "Assignment_02.postman_collection.json"
newman
Assignment_02
+ Put Method: Validate status value
PUT https://petstore.swagger.io/v2/pet [200 OK, 492B, 1579ms]
✓ Response to have 'id' property
✓ Status code to have 200
✓ Validate status value in response
```

	executed	failed
iterations	1	0
requests	1	0
test-scripts	1	0
prerequisite-scripts	0	0
assertions	3	0
total run duration: 1740ms		
total data received: 166B (approx)		
average response time: 1579ms [min: 1579ms, max: 1579ms, s.d.: 0µs]		



Home Workspaces API Network Search Postman

Phase3.Main Project Non-Funct... New Import

Assignment_03 / find user by username

GET https://petstore.swagger.io/#/user/Username001

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

```
pm.test('validate username in response', function () {
  pm.expect(pm.response.json().username).to.eql(pm.environment.get('username'));
});
pm.test('Validate email in response', function () {
  pm.expect(pm.response.json().email).to.eql('Positive@Attitude.com');
});
pm.test('Validate userStatus in response', function () {
  pm.expect(pm.response.json().userStatus).to.eql(1);
});
```

Test scripts are written in JavaScript, and are run after the response is received. Learn more about [tests scripts](#)

Snippets

- Get an environment variable
- Get a global variable
- Get a variable

Body Cookies Headers (15) Test Results (1/4) Status: 200 OK Time: 1238 ms Size: 886 B Save as example

Pretty Raw Preview Visualize HTML

```
<!-- HTML for static distribution bundle build -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Swagger UI</title>
  <link rel="stylesheet" type="text/css" href="/swagger-ui.css" />
  <link rel="stylesheet" type="text/css" href="index.css" />
  <link rel="icon" type="image/png" href="/favicon-32x32.png" sizes="32x32" />
```

Home Workspaces API Network Search Postman

Phase3.Main Project Non-Funct... New Import

Assignment_04 / Find pet by status=pending

GET https://petstore.swagger.io/v2/pet/findByStatus?status=pending

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
status	pending		

Body Cookies Headers (8) Test Results Status: 200 OK Time: 295 ms Size: 1009 B Save as example

Pretty Raw Preview Visualize JSON

```
{
  "id": 9727313,
  "category": {
    "id": 26989837,
    "name": "incidunt est non"
  },
  "name": "doggy",
  "photoUrls": [
    "dolor veniam",
    "eiusmod dolore in aliqua"
  ]
}
```

HomeWorkspacesAPI Network

Search Postman

InviteUpgrade

Phase3.Main Project Non-Funct...NewImport

QAPRODGET find usGET user LGET findingGET findingAssign

PROD

Collections

Environments

History

Assignment_01_PET ID Testing

POST Post Method: Create petID and...

GET Get Method: Validate petID:

DEL Delete Method:Delete petID:

Assignment_02

PUT Put Method: Validate status va...

Assignment_03

GET find user by username

Assignment_04

GET Find pet by status=available

GET Find pet by status=pending

GET Find pet by status=sold

Assignment_05

GET user Logout

Assignment_05 / user Logout

Save

Send

GEThttps://petstore.swagger.io/v2/user/logout

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

20

21 // Parse the response JSON

22

23 var jsonData = pm.response.json();

24

25 // Check if the 'message' field in the response is equal to "OK"

26

27 pm.test("Message is OK", function () {

28

29 pm.expect(jsonData.message).toEqual("ok");

30

31 });

Test scripts are written in JavaScript, and are run after the response is received. Learn more about tests scripts

Snippets

Get an environment variable

Get a global variable

Get a variable

BodyCookiesHeaders (8)Test Results (3/3)

Status: 200 OKTime: 881 msSize: 370 BSave as example

PrettyRawPreviewVisualizeJSON

1{

2"code": 200,

3"type": "unknown",

4"message": "ok"

5}

Rest Assured

eclipse-workspace - Phase3.FinalProjectRestAssured/src/test/java/Phase3/Assignment01_RestAssured/PostRequest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- phase2-learning-junit5-gradle-26-12-2024 [ph...]
- phase2-learning-junit-maven [eclipse-worksp...]
- phase2-Practice_Jenkins-learning [phase2-Pri...]
- phase2-selenium-data-driven-test-19-12-2023
- phase2-selenium-learning-exercises [phase2-s...]
- phase2-selenium-learning-testng-extent-repo
- phase2-selenium-listeners-19-12-2023 [phase2-...]
- Phase3.BDD_with_restAssured_using_Cucumber
- Phase3.FinalProjectRestAssured [eclipse-work...]
- src/main/java
- src/test/java
 - Phase3.Assignment01_RestAssured
 - DeleteRequest.java
 - GetRequest.java
 - PostRequest.java
 - Phase3.Assignment02_RestAssured
 - putRequestMethod1.java
 - putRequestMethod2.java
 - Phase3.Assignment03_RestAssured
 - GetRequestUserName.java
 - Phase3.Assignment04_RestAssured
 - GetRequestAuthentication.java
 - Phase3.Assignment05_RestAssured
 - TestPetStoreFindByStatus.java
 - Phase3.Assignment06_RestAssured
 - UserLogout.java
- src/test/resource
- JRE System Library [jdk-21]
- Maven Dependencies
- src
- target

```
1 package Phase3.Assignment01_RestAssured;
2
3 import static org.hamcrest.CoreMatchers.equalTo;
4
5 Run ALL
6 public class PostRequest {
7
8     private static final String Base_Url ="https://petstore.swagger.io/v2";
9     static final Logger logger=Logger.getLogger(PostRequest.class);
10
11     @Test(description = "Post request method with the rest assured")
12     Run | Debug
13     public void testPostPet() {
14         // Base URL for the API
15
16         logger.info("START:: POST method to create the PET details");
17         // JSON Body
18         String requestBody = "{ \"id\": 344, \"category\": { \"id\": 0, \"name\": \"string\" }, \"name\": \"Doggie\", \"photoUrls\": [ \"string\" ], \"tags\": [ { \"id\": 0, \"name\": \"string\" } ], \"status\": \"available\" }";
19
20         <terminated> PostRequest [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (23-Jan-2024, 10:38:41 pm - 10:38:55 pm) [pid: 11428]
21         2024-01-23 22:38:54 INFO PostRequest:59 END:: POST method to create the PET details
22         PASSED: Phase3.Assignment01_RestAssured.PostRequest.testPostPet
23         Post request method with the rest assured
24
25         =====
26         Default test
27         Tests run: 1, Failures: 0, Skips: 0
28         =====
29
30         =====
31         Default suite
32         Total tests run: 1. Passes: 1. Failures: 0. Skips: 0
33         =====
```

eclipse-workspace - Phase3.FinalProjectRestAssured/src/test/java/Phase3/Assignment01_RestAssured/GetRequest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- phase2-learning-junit5-gradle-26-12-2024 [ph...]
- phase2-learning-junit-maven [eclipse-worksp...]
- phase2-Practice_Jenkins-learning [phase2-Pri...]
- phase2-selenium-data-driven-test-19-12-2023
- phase2-selenium-learning-exercises [phase2-s...]
- phase2-selenium-learning-testng-extent-repo
- phase2-selenium-listeners-19-12-2023 [phase2-...]
- Phase3.BDD_with_restAssured_using_Cucumber
- Phase3.FinalProjectRestAssured [eclipse-work...]
- src/main/java
- src/test/java
 - Phase3.Assignment01_RestAssured
 - DeleteRequest.java
 - GetRequest.java
 - PostRequest.java
 - Phase3.Assignment02_RestAssured
 - putRequestMethod1.java
 - putRequestMethod2.java
 - Phase3.Assignment03_RestAssured
 - GetRequestUserName.java
 - Phase3.Assignment04_RestAssured
 - GetRequestAuthentication.java
 - Phase3.Assignment05_RestAssured
 - TestPetStoreFindByStatus.java
 - Phase3.Assignment06_RestAssured
 - UserLogout.java
- src/test/resource
- JRE System Library [jdk-21]
- Maven Dependencies
- src
- target

```
19 logger.info("START::GET method for the PET test");
20 logger.info("POST: URL +Base_Url+ "/pet/" +petID);
21
22 try {
23     RestAssured.given().baseUri(Base_Url)
24     .contentType(ContentType.JSON)
25     .when().get("/pet/" +petID)
26     .then().assertThat().statusCode(200);
27 }
28 catch(Exception e) {
29     logger.error("Exception Object :: " + e.toString());
30     logger.error("End Exception :: "+e.getLocalizedMessage());
31 }
32
33 String response= RestAssured.given().baseUri(Base_Url)
34 .when().get("/pet/" +petID).getBody().asString();
35 logger.info("Response is " + response);
36 logger.info("END:: GET method for the PET test");
37
38
39
40
41 <terminated> GetRequest [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (23-Jan-2024, 10:39:51 pm - 10:40:03 pm) [pid: 7116]
42 PASSED: Phase3.Assignment01_RestAssured.GetRequest.testGetPet
43 Get request method to get PET details using the petID
44
45         =====
46         Default test
47         Tests run: 1, Failures: 0, Skips: 0
48         =====
49
50         =====
51         Default suite
52         Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
53         =====
```

eclipse-workspace - Phase3.FinalProjectRestAssured/src/test/java/Phase3/Assignment01_RestAssured/DeleteRequest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- phase2-learning-junit5-gradle-26-12-2024 [ph
- phase2-learning-junit-maven [eclipse-worksp
- phase2-Practice_Jenkins-learnings [phase2-Pr
- phase2-selenium-data-driven-test-19-12-2023
- phase2-selenium-learning-exercises [phase2-t
- phase2-selenium-learning-testing-extent-repo
- phase2-selenium-listeners-19-12-2023 [phase
- Phase3.BDD_with_restAssured_using_Cucumber
- Phase3.FinalProjectRestAssured [eclipse-work
- src/main/java
 - Phase3.Assignment01_RestAssured
 - DeleteRequest.java
 - GetRequest.java
 - PostRequest.java
 - Phase3.Assignment02_RestAssured
 - putRequestMethod1.java
 - putRequestMethod2.java
 - Phase3.Assignment03_RestAssured
 - GetRequestUserName.java
 - Phase3.Assignment04_RestAssured
 - GetRequestAuthentication.java
 - Phase3.Assignment05_RestAssured
 - TestPetStoreFindByStatus.java
 - Phase3.Assignment06_RestAssured
 - UserLogout.java
- src/test/resource
- JRE System Library [jdk-21]
- Maven Dependencies
- src
- target

GetRequestU... GetRequest.java TestNG.xml TestPetStor... PostRequest... DeleteReque... x

```

1 package Phase3.Assignment01_RestAssured;
2
3 import io.restassured.RestAssured;
4
5 Run ALL
6 public class DeleteRequest {
7
8     private static final String Base_Url ="https://petstore.swagger.io/v2";
9     static final Logger Logger= Logger.getLogger(DeleteRequest.class);
10
11     @Test(description="Delete request method for the PET")
12     Run / Debug
13     public void testGetPet() {
14
15         Logger.info("START::Delete method for the PET test");
16         int petID= 344;
17         Logger.info("DELETE: URL" +Base_Url+ "/pet/" +petID);
18
19         try {
20             RestAssured.given().baseUri(Base_Url)
21                 .when().delete("/pet/" +petID);
22         }
23     }
24 }

```

Problems Servers Terminal Data Source... Properties Console X Progress Results of r... JUnit Gradle Tasks Gradle Exec...

<terminated> DeleteRequest [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (23-Jan-2024, 10:41:31 pm - 10:41:45 pm) [pid: 16064]

PASSED: Phase3.Assignment01_RestAssured.DeleteRequest.testGetPet
Delete request method for the PET

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

eclipse-workspace - Phase3.FinalProjectRestAssured/src/test/java/Phase3/Assignment02_RestAssured/putRequestMethod1.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- phase2-learning-junit5-gradle-26-12-2024 [ph
- phase2-learning-junit-maven [eclipse-worksp
- phase2-Practice_Jenkins-learnings [phase2-Pr
- phase2-selenium-data-driven-test-19-12-2023
- phase2-selenium-learning-exercises [phase2-t
- phase2-selenium-learning-testing-extent-repo
- phase2-selenium-listeners-19-12-2023 [phase
- Phase3.BDD_with_restAssured_using_Cucumber
- Phase3.FinalProjectRestAssured [eclipse-work
- src/main/java
 - Phase3.Assignment01_RestAssured
 - DeleteRequest.java
 - GetRequest.java
 - PostRequest.java
 - Phase3.Assignment02_RestAssured
 - putRequestMethod1.java
 - putRequestMethod2.java
 - Phase3.Assignment03_RestAssured
 - GetRequestUserName.java
 - Phase3.Assignment04_RestAssured
 - GetRequestAuthentication.java
 - Phase3.Assignment05_RestAssured
 - TestPetStoreFindByStatus.java
 - Phase3.Assignment06_RestAssured
 - UserLogout.java
- src/test/resource
- JRE System Library [jdk-21]
- Maven Dependencies
- src
- target

GetRequestU... GetRequest.java putRequestM... x putRequestM... PostRequest... DeleteReque... x

```

1 package Phase3.Assignment02_RestAssured;
2
3 import java.util.ArrayList;
4
5 Run ALL
6 public class putRequestMethod1 {
7
8     private static final String BASE_URL = "https://petstore.swagger.io/v2";
9     static final Logger Logger= Logger.getLogger(putRequestMethod1.class);
10
11     @DataProvider(name = "statusValues")
12     public Iterator<Object[]> statusValues() {
13         final List<Object[]> statusValues = new ArrayList<Object[]> ();
14         statusValues.add(new Object[] {"available_DEV"});
15         statusValues.add(new Object[] {"available_QA"});
16         statusValues.add(new Object[] {"available_PROD"});
17
18         return statusValues.iterator();
19     }
20
21     @Test(description="put request method " dataProvider = "statusValues")
22 }

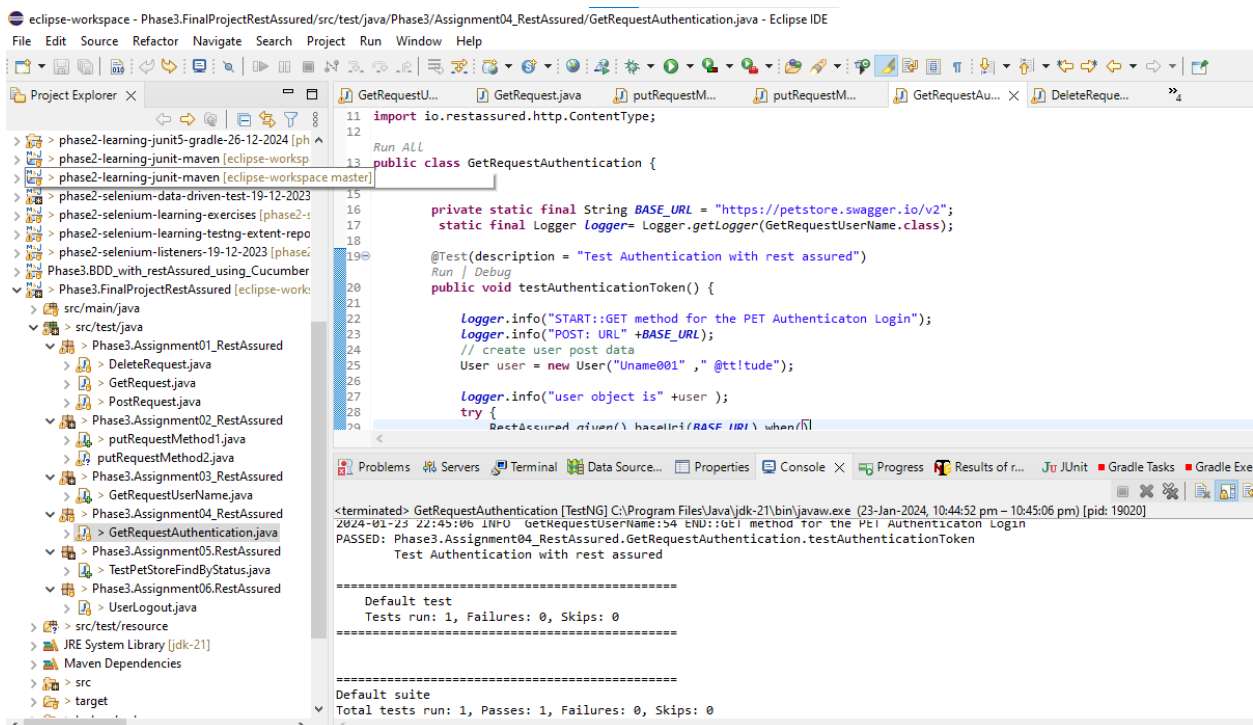
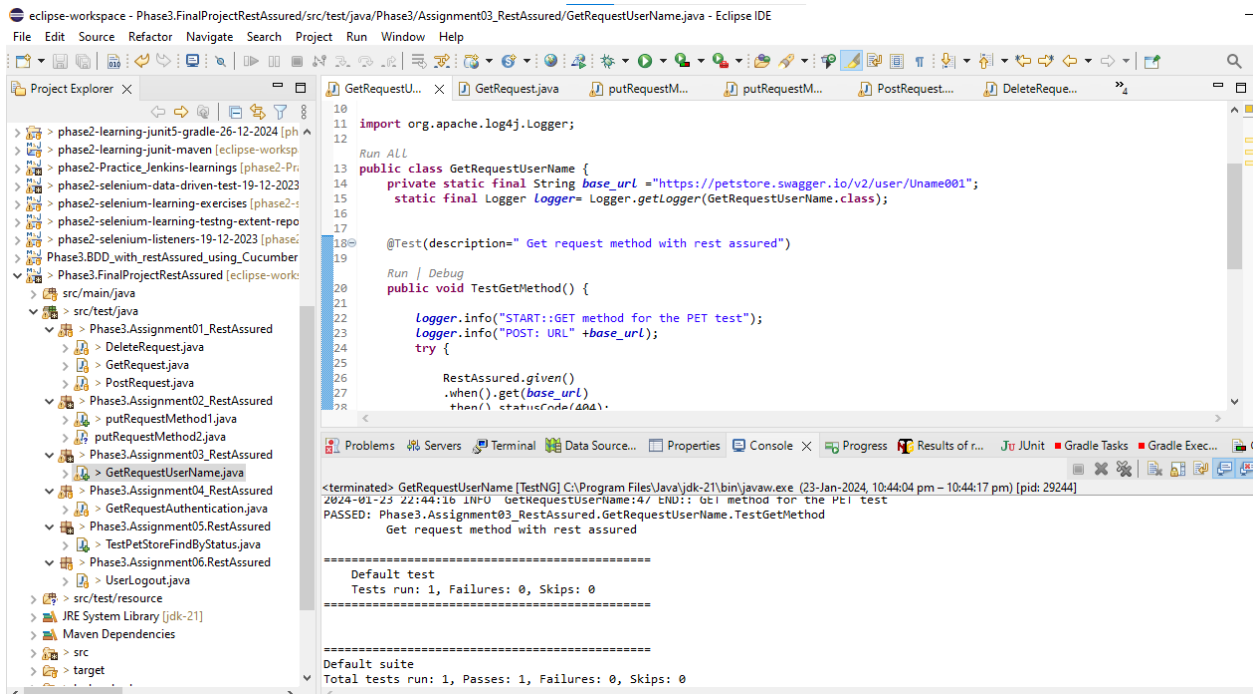
```

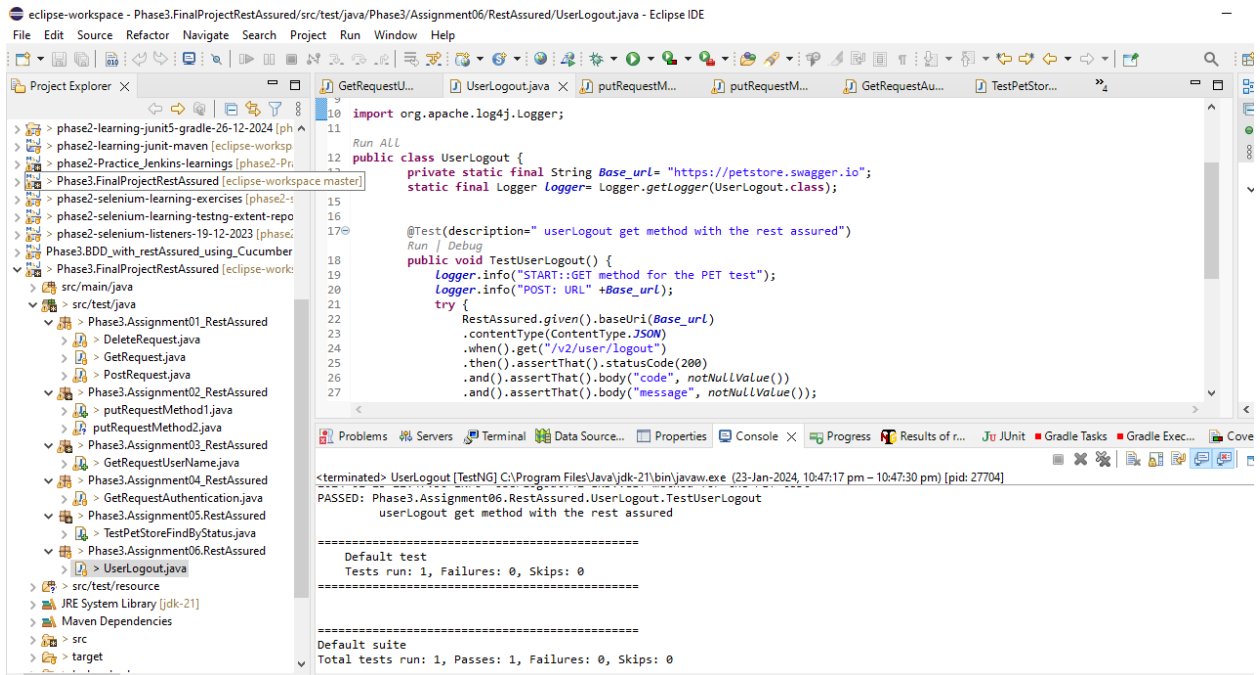
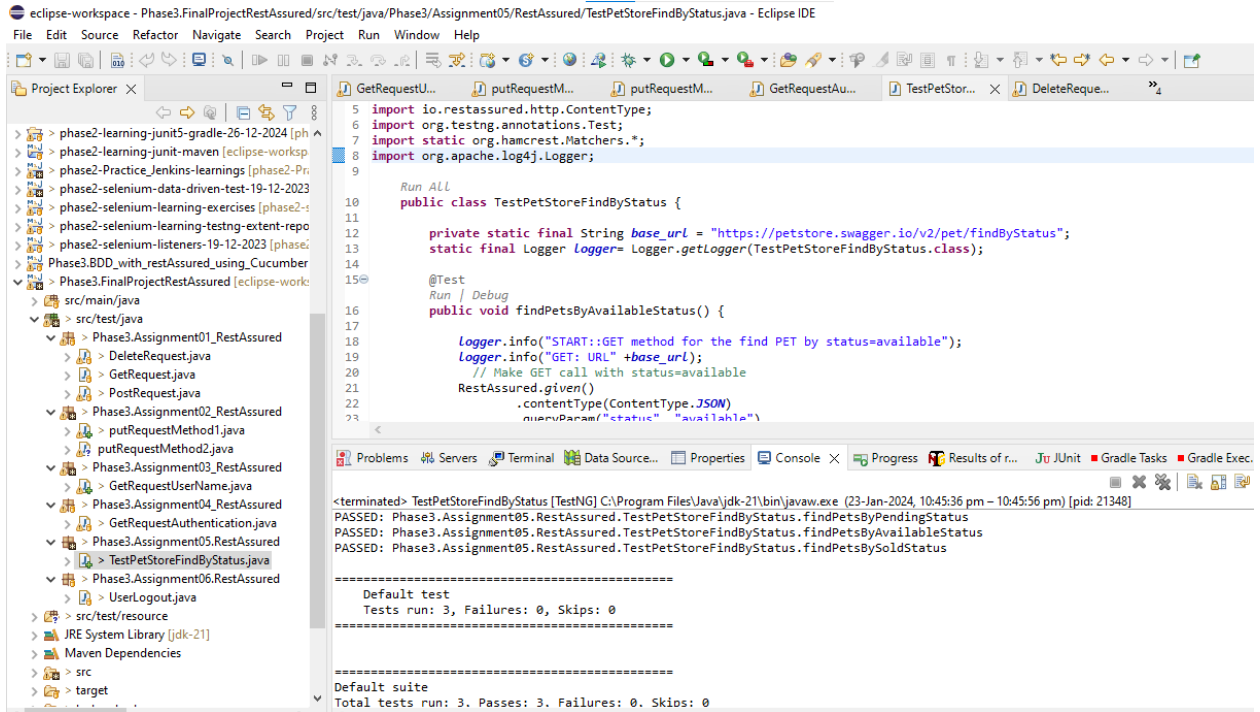
Problems Servers Terminal Data Source... Properties Console X Progress Results of r... JUnit Gradle Tasks Gradle Exec... Cover

<terminated> putRequestMethod1 [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (23-Jan-2024, 10:42:34 pm - 10:42:54 pm) [pid: 37776]

2024-01-23 22:42:54 INFO putRequestMethod1:68 EN0: PUT method for the PET test
PASSED: Phase3.Assignment02_RestAssured.putRequestMethod1.putCallTesting("available_QA")
put request method
PASSED: Phase3.Assignment02_RestAssured.putRequestMethod1.putCallTesting("available_PROD")
put request method
PASSED: Phase3.Assignment02_RestAssured.putRequestMethod1.putCallTesting("available_DEV")
put request method

Default test
Tests run: 1, Failures: 0, Skips: 0





eclipse-workspace - Phase3.FinalProjectRestAssured/TestNG.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Design Window Help

Project Explorer

- phase2-selenium-listeners-19-12-2023 [phase2]
- Phase3.BDD_with_restAssured_using_Cucumber
- Phase3.FinalProjectRestAssured [eclipse-workspace]
- src/main/java
 - src/test/java
 - Phase3.Assignment01_RestAssured
 - DeleteRequest.java
 - GetRequest.java
 - PostRequest.java
 - Phase3.Assignment02_RestAssured
 - putRequestMethod1.java
 - putRequestMethod2.java
 - Phase3.Assignment03_RestAssured
 - GetRequestUserName.java
 - Phase3.Assignment04_RestAssured
 - GetRequestAuthentication.java
 - Phase3.Assignment05_RestAssured
 - TestPetStoreFindByStatus.java
 - Phase3.Assignment06_RestAssured
 - UserLogout.java
 - src/test/resource
 - JRE System Library [jdk-21]
 - Maven Dependencies
 - src
 - target
 - test-output
 - pom.xml
 - TestNG.xml
- Phase3.JmeterJUnit [eclipse-workspace master]
- Phase3.RestAssuredLearningPractice [eclipse-workspace master]
- Servers [eclipse-workspace master]

GetRequestU... UserLogout.java putRequestM... TestNG.xml GetRequestAu... TestPetStor...

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- Bind to grammar/schema... -->
4 <suite name="RestAssured Test">
5   <listeners>
6     <listener class-name="org.uncommons.reporting.HTMLReporter" />
7     <listener class-name="org.uncommons.reporting.junit4.XMLReporter" />
8   </listeners>
9
10  <test name="Assignment_01">
11    <classes>
12      <class name="Phase3.Assignment01_RestAssured.PostRequest"/></class>
13      <class name="Phase3.Assignment01_RestAssured.GetRequest"/></class>
14      <class name="Phase3.Assignment01_RestAssured.DeleteRequest"/></class>
15    </classes>
16  </test>
17
18  <test name="DevTest Assignment_02">
19    <parameter name="environment" value="DEV" />
20    <classes>
21      <class name="Phase3.Assignment02_RestAssured.putRequestMethod2" />
22    </classes>
23  </test>
24</suite>
```

Design Source

Problems Servers Terminal Data Source... Properties Console X Progress Results of r... JUnit JUnit Gradle Tasks Gradle Exec... Coverage

<terminated> Phase3.FinalProjectRestAssured_TestNG.xml [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (23-Jan-2024, 10:48:49 pm - 10:49:47 pm) [pid: 31200]

2024-01-23 22:49:46 INFO UserLogout:42 END::GET method for the PET test

RestAssured Test
Total tests run: 15, Passes: 15, Failures: 0, Skips: 0

Test Results Report

[Overview](#)

RestAssured Test	
Assignment_01	✓
DevTest Assignment_02	✓
QATest Assignment_02	✓
ProdTest Assignment_02	✓
Assignment_02	✓
Assignment_03	✓
Assignment_04	✓
Assignment_05	✓
Assignment_06	✓

Test Results Report

Generated by TestNG with ReportNG at 22:48 IST on Tuesday 23 January 2024
Dell@DESKTOP-KMOQCD1 / Java 21.0.1 (Oracle Corporation) / Windows 10 10.0 (amd64)

RestAssured Test		Duration	Passed	Skipped	Failed	Pass Rate
Assignment_01		15.450s	3	0	0	100%
DevTest Assignment_02		2.978s	1	0	0	100%
QATest Assignment_02		2.973s	1	0	0	100%
ProdTest Assignment_02		2.976s	1	0	0	100%
Assignment_02		8.788s	3	0	0	100%
Assignment_03		2.909s	1	0	0	100%
Assignment_04		3.789s	1	0	0	100%
Assignment_05		9.795s	3	0	0	100%
Assignment_06		2.900s	1	0	0	100%
Total			15	0	0	100%

JMeter

