

Postman Assignment_001:

Step 1: Create CSV File

- Create a CSV file with two columns: petid and petname

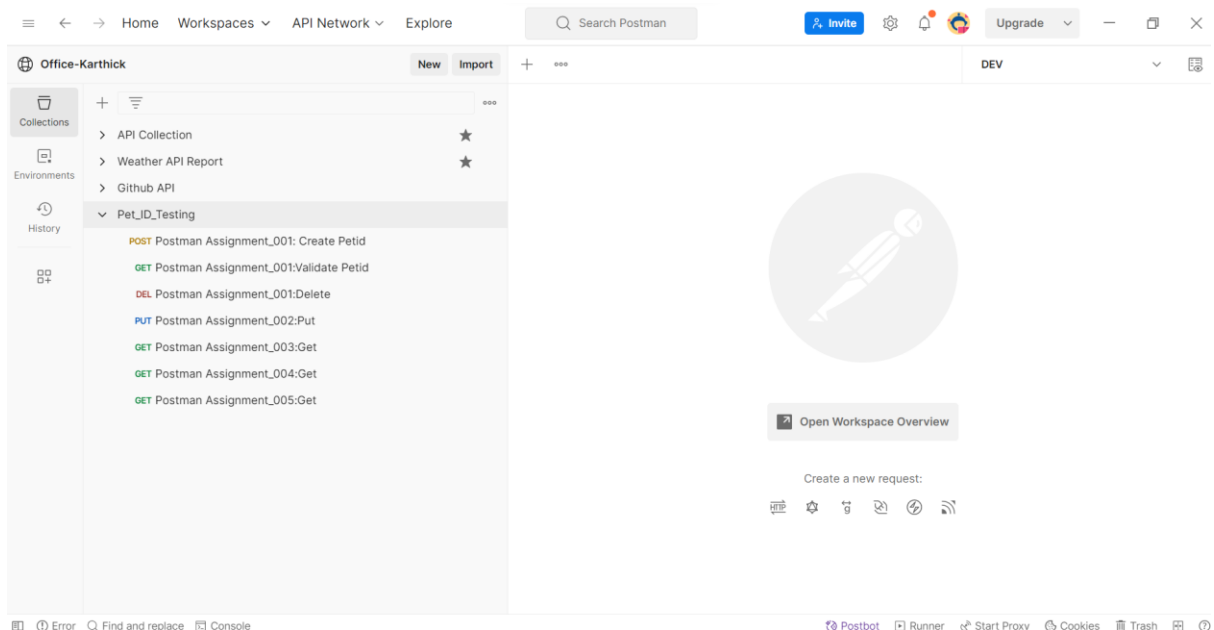
	A	B
1	petid	petname
2	101	Cat
3	102	Dog
4	103	Tiger
5	104	Lion
6	105	Cow
7	106	Dog
8	107	Cat
9	108	Dog
10		
11		
12		
13		
14		

Step 2: Open Postman

- Open Postman.

Step 3: Create Collection

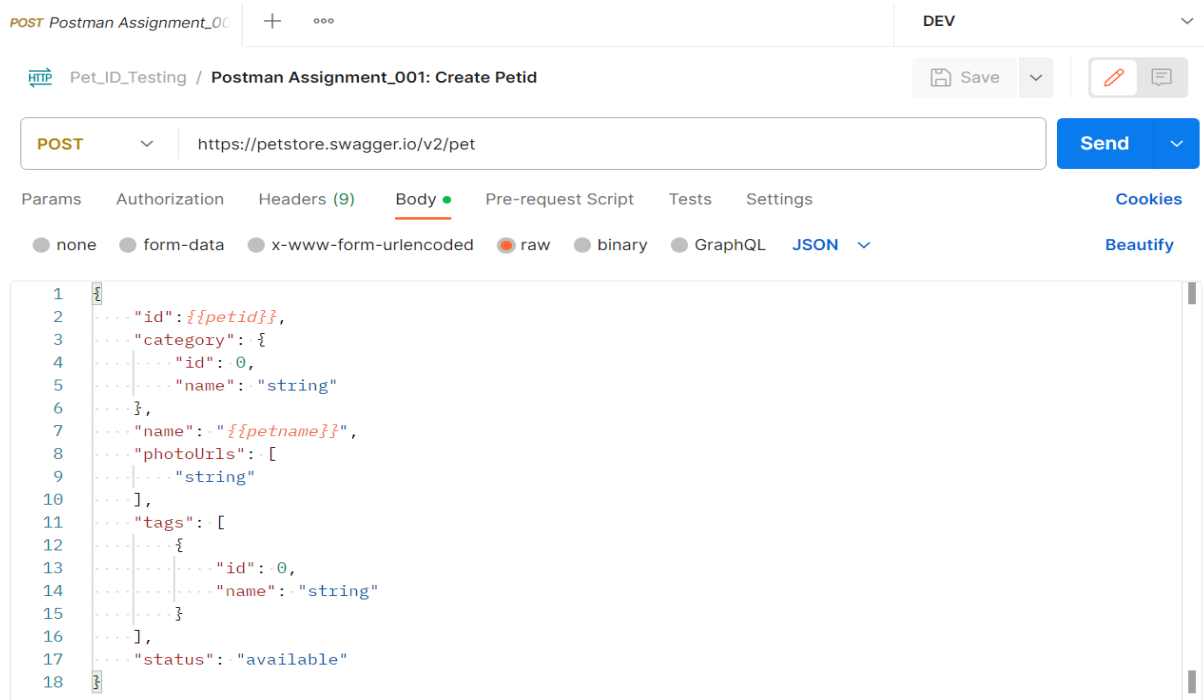
- Create a new collection named "Pet_ID_Testing."



Step 4: Add POST Request

- Add a new POST service request to the collection.

- URL: <https://petstore.swagger.io/v2/pet>
- Service Type: POST
- JSON Body: Use the provided JSON body with parameterized petid and petname.



Step 5: Add Tests

- In the Postman Tests section, validate the POST call:
 - Response status code should be 200.
 - Response body should contain text 'available.'

Step 6: Add GET Request

- Add a new GET service request to the collection.
 - URL: <https://petstore.swagger.io/v2/pet/{{petid}}>

HTTP Pet_ID_Testing / Postman Assignment_001:Validate Petid Save

GET ▼ Send ▼

Params Authorization Headers (7) Body Pre-request Script Tests Settings [Cookies](#)

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Step 7: Add Tests for GET Request

- In the Postman Tests section, validate the GET call:
- Response status code should be 200.

Step 8: Add DELETE Request

- Add a new DELETE service request to the collection.
- URL: `https://petstore.swagger.io/v2/pet/{petid}`

HTTP Pet_ID_Testing / Postman Assignment_001:Delete Save

DELETE ▼ Send ▼

Params Authorization Headers (7) Body Pre-request Script Tests Settings [Cookies](#)

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

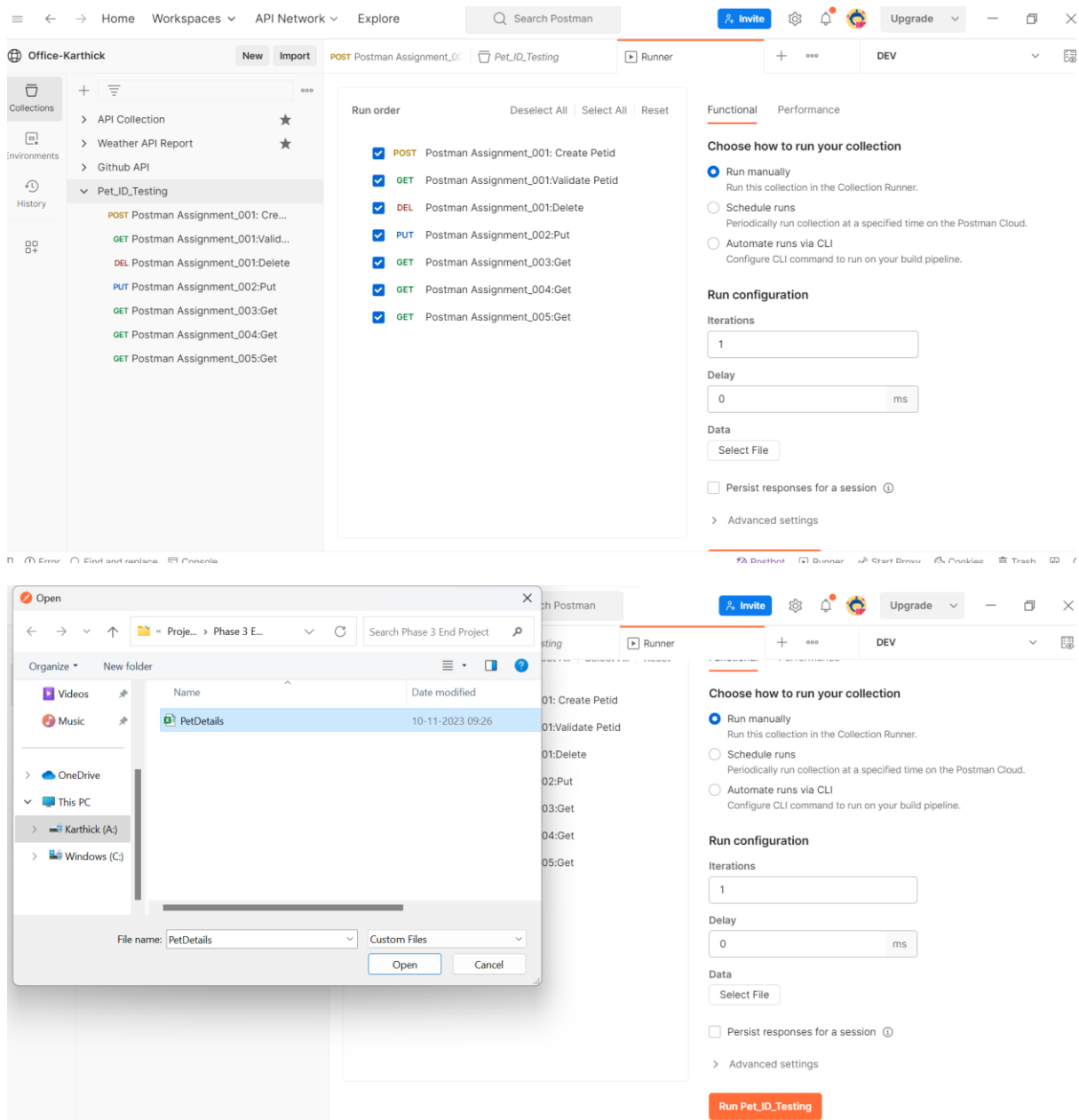
Response ▼

Step 9: Add Tests for DELETE Request

- In the Postman Tests section, validate the DELETE call:
- Response status code should be 200.

Step 10: Run Collection

- Run the collection.
- Select the CSV file to run the end-to-end scenarios 20 times.
- Check the checkbox for Save Response.



Step 11: Validate and Export

- Open Postman Console and run the collection.
- Validate that all parameterized data [PetID/PetName] is filled with CSV runtime data.
- All status codes should pass.
- Export the collection as a JSON file.

Step 12: Run JSON Collection Using Newman

- Run the JSON collection using the Postman Newman command from cmd/terminal.

Postman Assignment_002:

Step 1: Create PUT Request

- Add a PUT call to the collection.
- URL: <https://petstore.swagger.io/v2/pet>
- JSON Body: Use the provided JSON body with parameterized status based on the environment.

The image displays two screenshots of the Postman interface for a PUT request named "Postman Assignment_002:Put" in the "Pet_ID_Testing" collection, set to the "DEV" environment.

Top Screenshot (Pre-request Script tab):

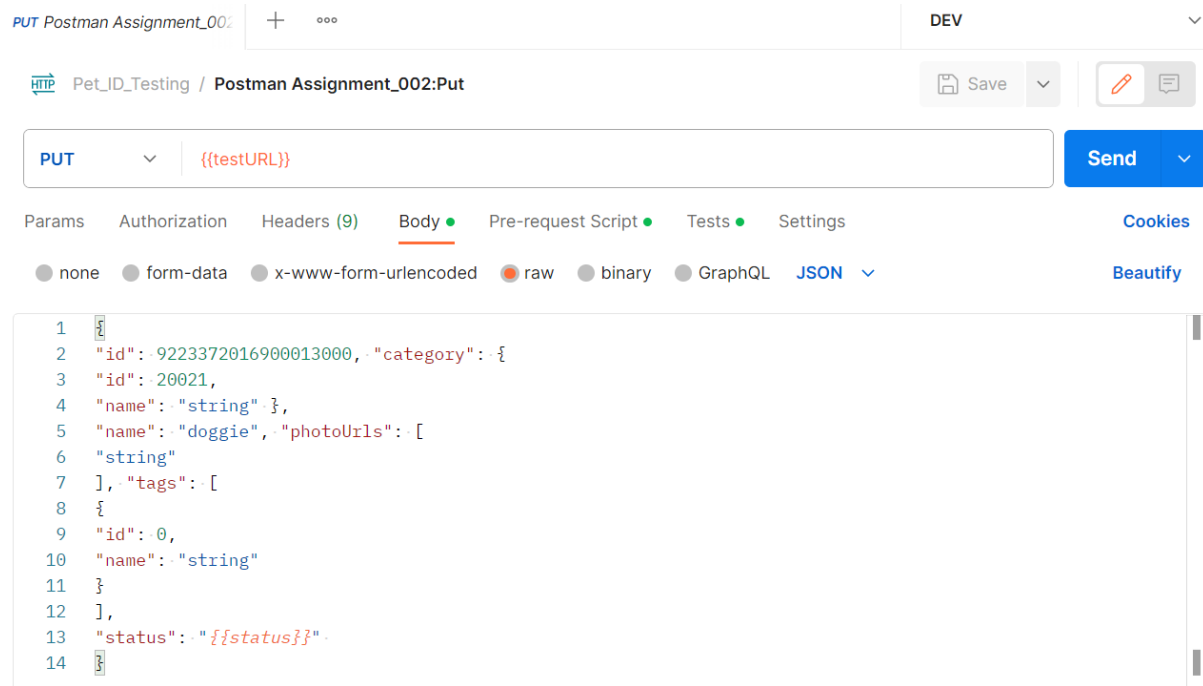
- Method:** PUT
- URL:** {{testURL}}
- Pre-request Script:**

```
1 // Get the current environment name
2 var environment = pm.environment.name;
3
4 // Set the status variable based on the environment
5 if (environment === 'DEV') {
6   pm.variables.set('status', 'available_DEV');
7 } else if (environment === 'QA') {
8   pm.variables.set('status', 'available_QA');
9 } else if (environment === 'PROD') {
10  pm.variables.set('status', 'available_PROD');
11 }
12
```

Bottom Screenshot (Tests tab):

- Method:** PUT
- URL:** {{testURL}}
- Tests:**

```
1 // Validate ID in response
2 pm.test("ID should be 20021", function () {
3   pm.expect(pm.response.json().id).to.eql(20021);
4 });
5
6 // Validate response code
7 pm.test("Response code should be 200", function () {
8   pm.response.to.have.status(200);
9 });
10
11 // Validate status value in response
12 pm.test("Status value should match the environment", function () {
13   var expectedStatus = pm.variables.get('status');
14   pm.expect(pm.response.json().status).to.eql(expectedStatus);
15 });
16
```



Step 2: Create Global Variable

- Create a global variable for the URL, named testURL, with the value <https://petstore.swagger.io/v2/pet>.

Step 3: Create Environments

- Create three test environments: DEV, QA, PROD.
- Parameterize the status field in the PUT call JSON body based on the environment.

Step 4: Add Tests

- Validate the response:
 - Response status should be 200.
 - Validate id = 20021 in the response.
 - Validate status value changes as per the environment.

PUT Postman Assignment_002 / Pet_ID_Testing / Postman Assignment_002:Put

PUT `{{testURL}}` **Send**

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded **raw** binary GraphQL JSON Beautify

```

1 {
2   "id": 9223372016900013000, "category": {
3     "id": 20021,
4     "name": "string" },

```

Body Cookies Headers (8) **Test Results (2/3)** 200 OK 2.05 s 490 B Save as example

All Passed Skipped Failed

FAIL ID should be 20021 | AssertionError: expected 9223372016900013000 to deeply equal 20021

PASS Response code should be 200

PASS Status value should match the environment

REST Assured Assignment:

Create a Maven project.

1. Add Dependencies
2. Add Maven dependencies for TestNG and REST Assured.

Phase3EndProject

- src/main/java
- src/test/java
 - RESTAssuredAssignment
 - Assignment001.java
 - Assignment001Post.java
 - Assignment002.java
 - Assignment003.java
 - Assignment004.java
 - Assignment005.java
 - Assignment006.java
- src/main/resource
- JRE System Library [JavaSE-1.7]
- Maven Dependencies
- logs
- resource
- src
- target
- test-output
- pom.xml

```
1 package RESTAssuredAssignment;
2 import java.io.File;
3
4 public class Assignment001 {
5     Logger logger = LogManager.getLogger(Assignment001Post.class);
6
7     @Test(priority='1')
8     public void assignment001Post() {
9         logger.info("Course End project - Assignment001 - POST request");
10        File file = new File("resources/data.json");
11        int id = RestAssured.given()
12            .baseUri("https://petstore.swagger.io/v2/pet")
13            .contentType(ContentType.JSON)
14            .body(file)
15            .when().post()
16            .then()
17            .statusCode(200)
18            .log().all()
19            .body("name", Matchers.equalTo("duck")).extract().path("id");
20        logger.trace("The status code is checked");
21
22        System.out.println(id);
23
24        logger.trace("Id has been captured and validated");
25    }
26
27    @Test(priority='2', dependsOnMethods="assignment001Post")
28    public void assignment001Get() {
29
30        logger.info("Course End project - Assignment001 - GET request");
31        int id = RestAssured.given()
32            .baseUri("https://petstore.swagger.io/v2/pet/987")
33            .when()
34            .get()
35            .then()
36            .statusCode(200)
37            .log().all()
38            .body("status", Matchers.equalTo("available")).extract().path("category.id");
39        System.out.println(id); // 0
40    }
41 }
```

```
<terminated> Assignment002 [TestNG] C:\Users\karth.p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.20.0.2.v20230801-2057\jre\bin\javaw.exe (10-10-2023 10:00:00 AM)
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET, POST, DELETE, PUT
Access-Control-Allow-Headers: Content-Type, api_key, Authorization
Server: Jetty(9.2.9.v20150224)

{
  "id": 987,
  "category": {
    "id": 0,
    "name": "string"
  },
  "name": "duck",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ],
  "status": "available_OA"
}
987
PASSED: RESTAssuredAssignment.Assignment002.assignment002Post
PASSED: RESTAssuredAssignment.Assignment002.assignment002Put

=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

JMeter Assignment:

Step 1: Open JMeter

- Open JMeter.

Step 2: Validate HTTP Authentication

- Validate <https://httpbin.org/basic-auth/user/passwd> using HTTP Authentication Manager.

Step 3: Validate Response with JSON Assertion

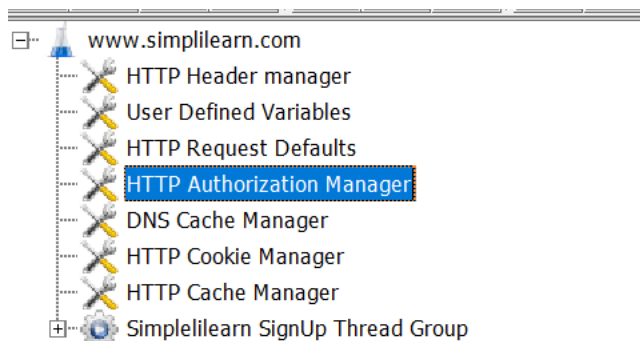
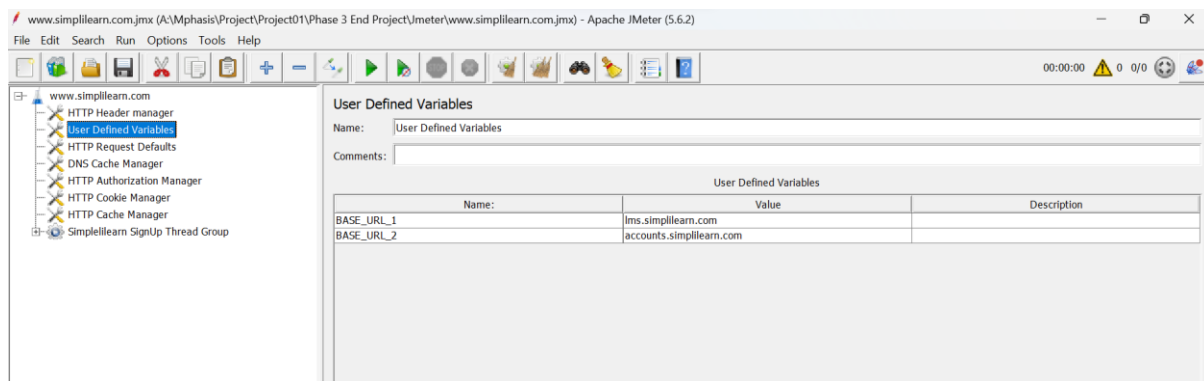
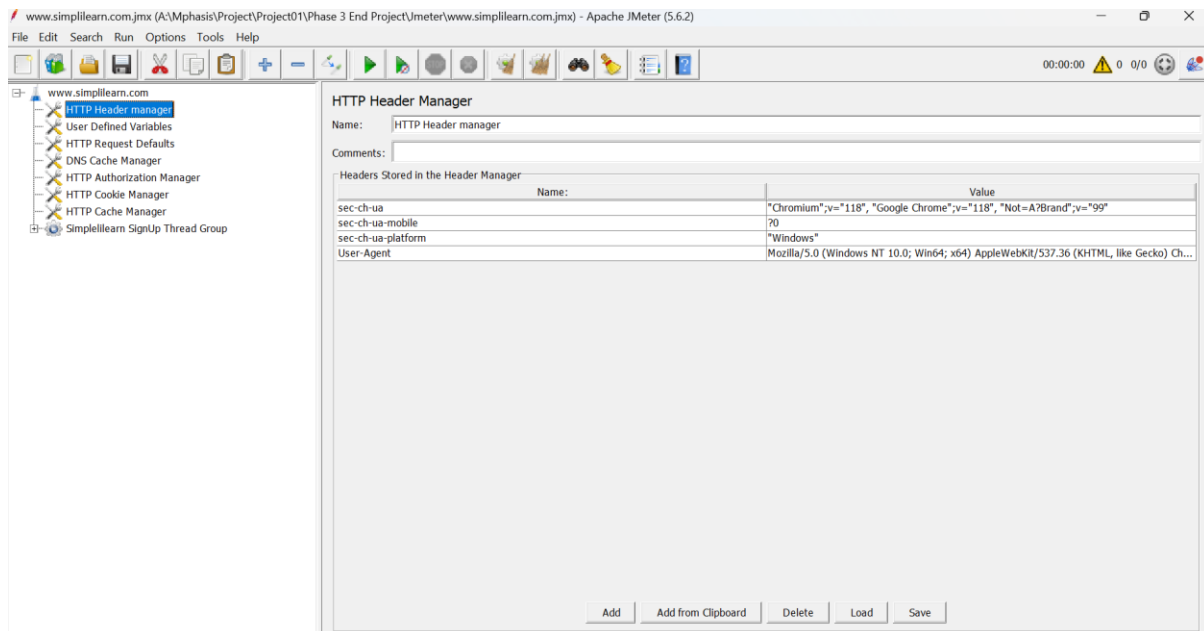
- Validate that the response is a JSON file using JSON assertion.

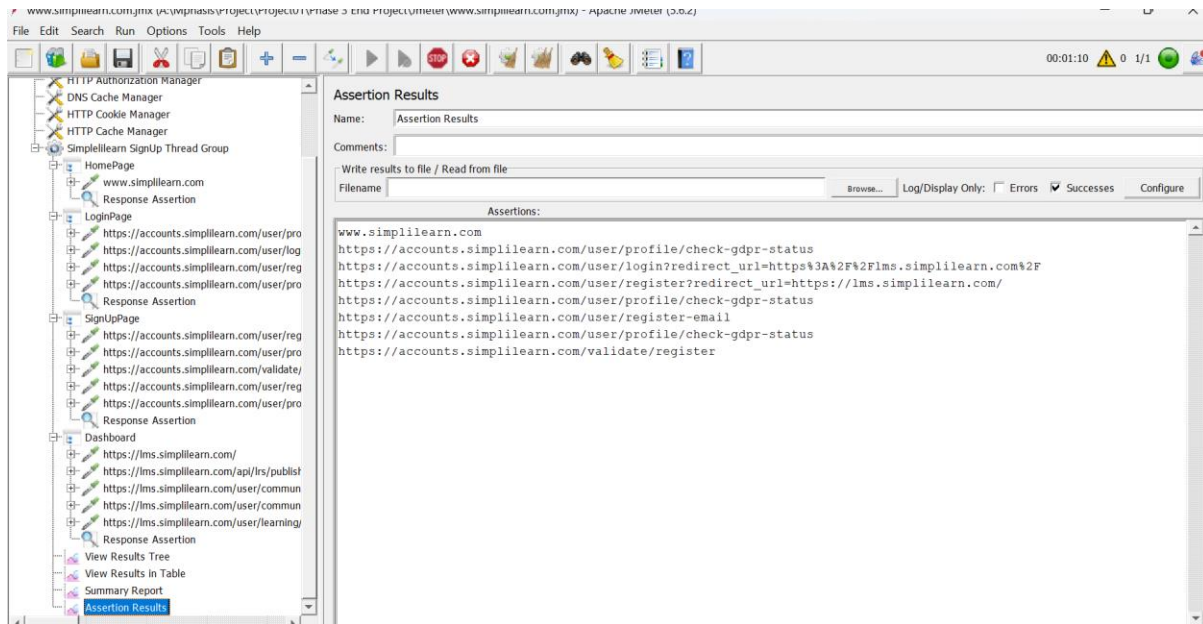
Step 4: Hit Simplilearn URL

- Using HTTP sampler, hit <https://www.simplilearn.com> and validate xpath.

Step 5: Increase Thread Count

- Increase the thread count and perform load testing for lead validation.





GitHub repository : <https://github.com/Karthick-Office/Project01.git>

Non-Functional Testing Using Postman, REST Assured, and JMeter Project is present under the “Phase 3 End Project” folder in the My GitHub repository