

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

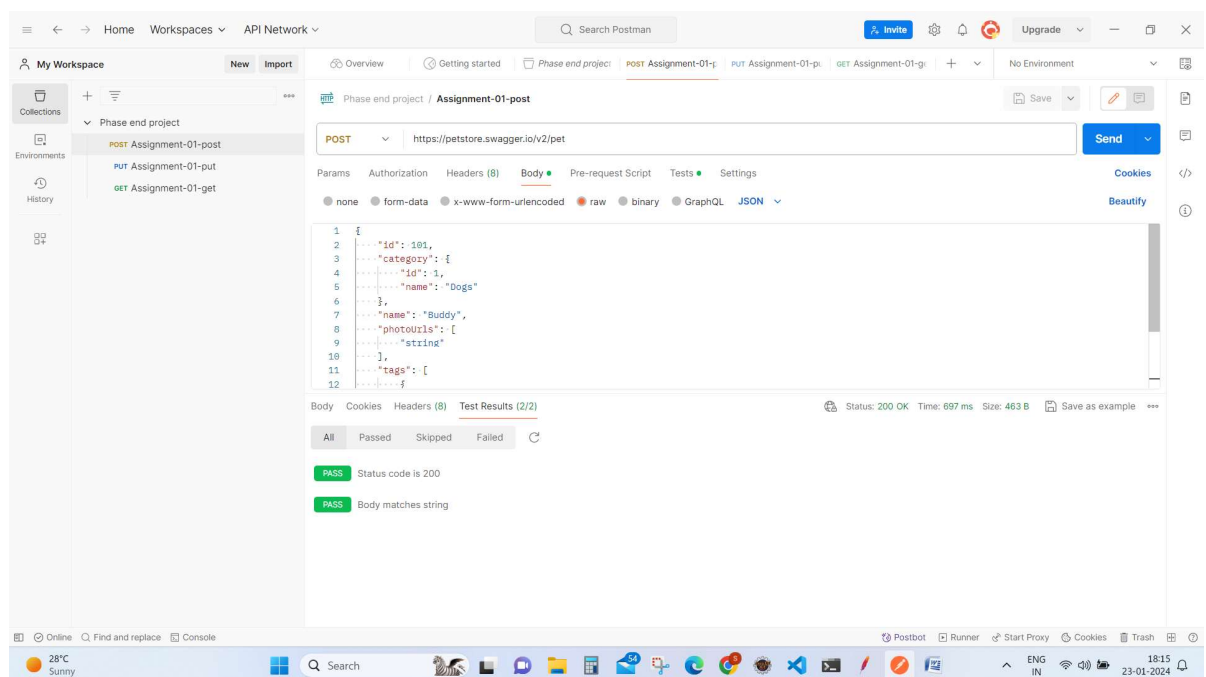
Source code:

- Open Postman
- Create a new collection called **end project** and arrange three end-to-end services as shown below:

- In this blank collection add new request

●

Take add request as post–Assignment-01-post



In this request part add Assignment-01-Post [url:https://petstore.swagger.io/v2/pet](https://petstore.swagger.io/v2/pet) in
body part select raw area and select text as json

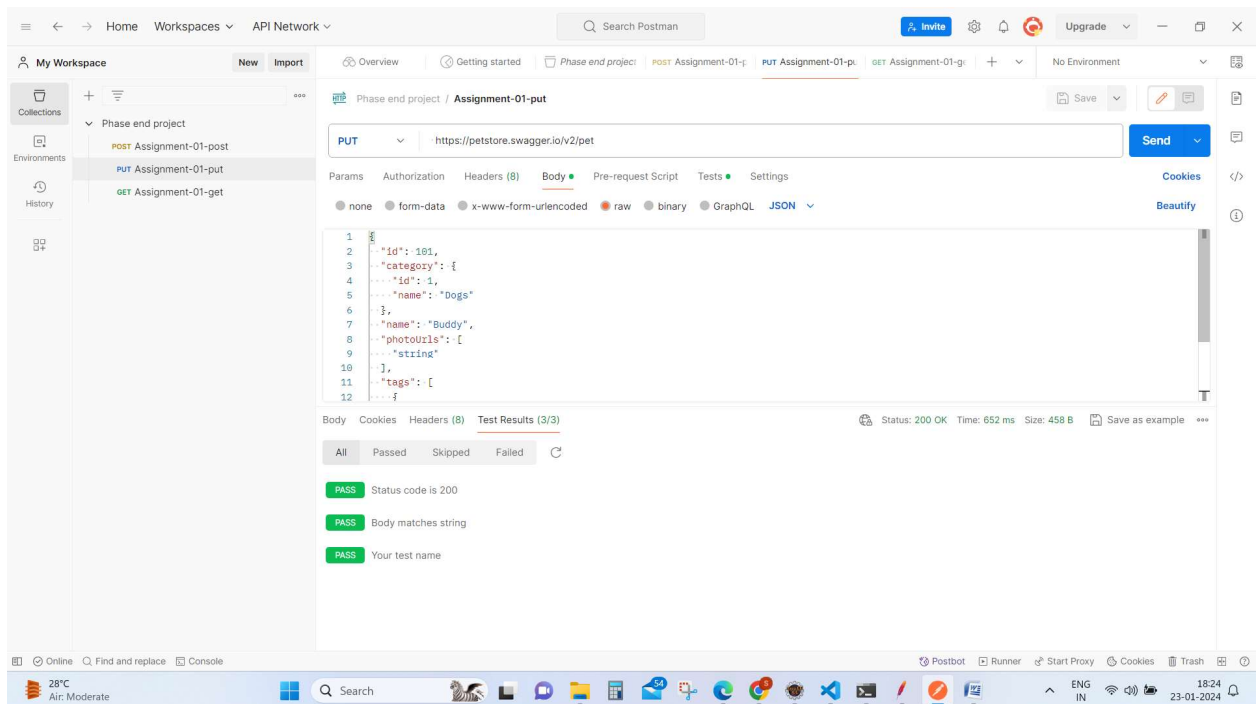
Body:

```
{
  "id": 101,
  "category": {
    "id": 1,
    "name": "Dogs"
  },
  "name": "Buddy",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ],
  "status": "available"
}
```

Tests:

```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
pm.test("Body matches string", function () {
  pm.expect(pm.response.text()).to.include("available");
});
```

Next Take add request as put–Assignment-01-put



Body:

```
{
  "id": 101,
  "category": {
    "id": 1,
    "name": "Dogs"
  },
  "name": "Buddy",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ],
  "status": "sold"
}
```

Tests:

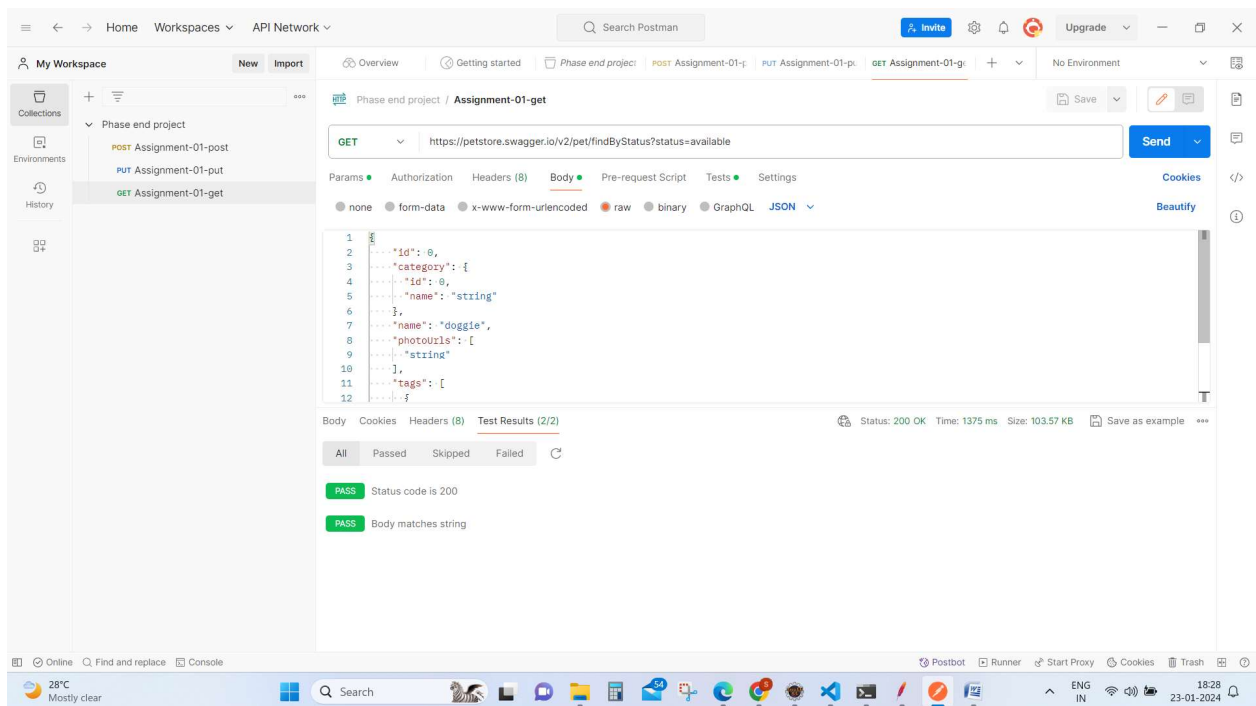
```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
```

```

});
pm.test("Body matches string", function () {
  pm.expect(pm.response.text()).to.include("sold");
});
pm.test("Your test name", function () {
  var jsonData = pm.response.json();
  pm.expect(jsonData.id).to.eql(101);
});

```

Next select postman-assignment-01-get method



Body:

```

{
  "id": 0,
  "category": {
    "id": 0,
    "name": "string"
  },
  "name": "doggie",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ]
}

```

```
"status": "available"
}
```

Tests:

```
pm.test("Status code is 200", function () {
  pm.response.to.have.status(200);
});
pm.test("Body matches string", function () {
  pm.expect(pm.response.text()).to.include("available");
});
```

Next Take Rest Assured Assignments:

Go to eclipse part create a project rest assured scripts

Enter package name phase end project take class name PetStoreAPITest package

courseEndProject;

```
import org.testng.annotations.Test;
import io.restassured.RestAssured;
import static io.restassured.RestAssured.given;
import static org.hamcrest.Matchers.*;
```

```
public class PetStoreAPITest{
```

```
//    @Test
//    public void testGetPetById(){
//        RestAssured.baseURI="https://petstore.swagger.io/v2";
//
//        given()
//            .pathParam("petId",0)
//            .when()
//            .get("/pet/{petId}")
//            .then()
//            .statusCode(200)
//            .body("id",equalTo(0))
//            .body("name",equalTo("Fido"))
//            .body("status",equalTo("available"));
//    }
```

@Test

```

public void testAddNewPet(){
    RestAssured.baseURI="https://petstore.swagger.io/v2";

    given()
        .header("Content-Type","application/json")
        .body("{\"id\":101,\"category\":{\"id\":1,\"name\":\"Dogs\"},\n"
        + "\"name\":\"Buddy\",\"photoUrls\":[\"string\"],\"tags\":[{\"id\":0,\n"
        + "\"name\":\"string\"}],\"status\":\"available\"}")
        .when()
            .post("/pet")
        .then()
            .statusCode(200)
            .body("name",equalTo("Buddy"))
            .body("status",equalTo("available"));
}

```

@Test

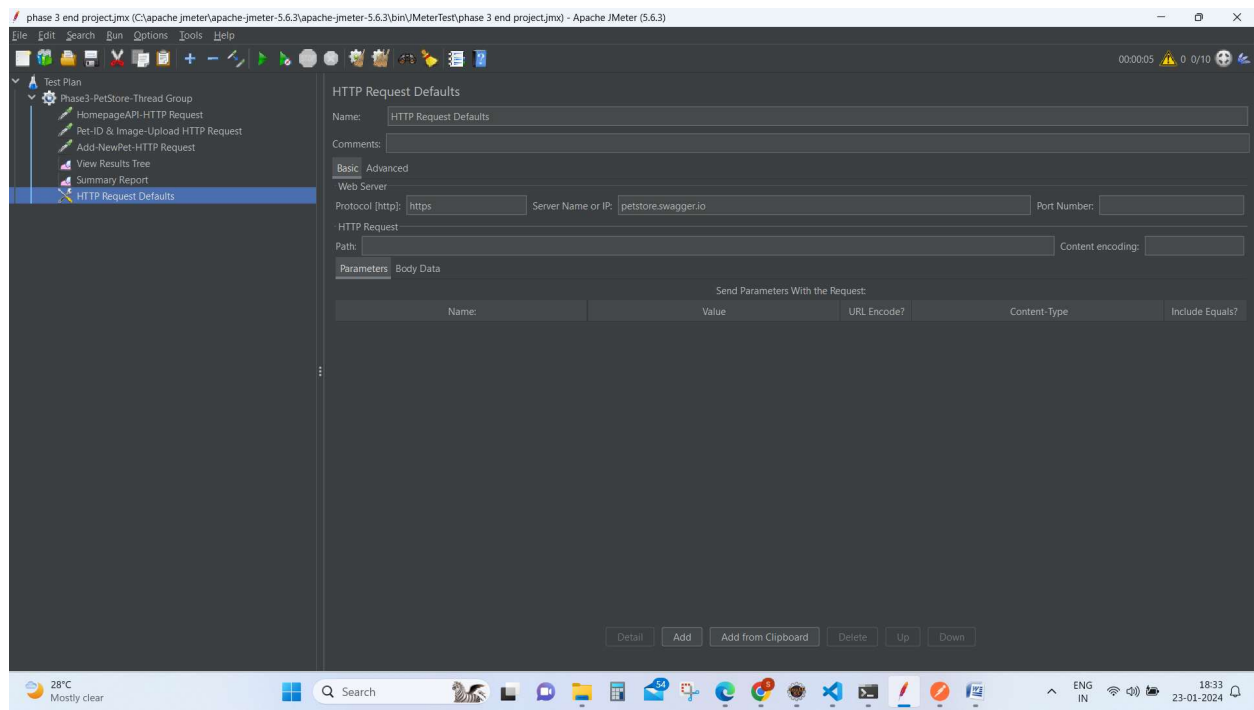
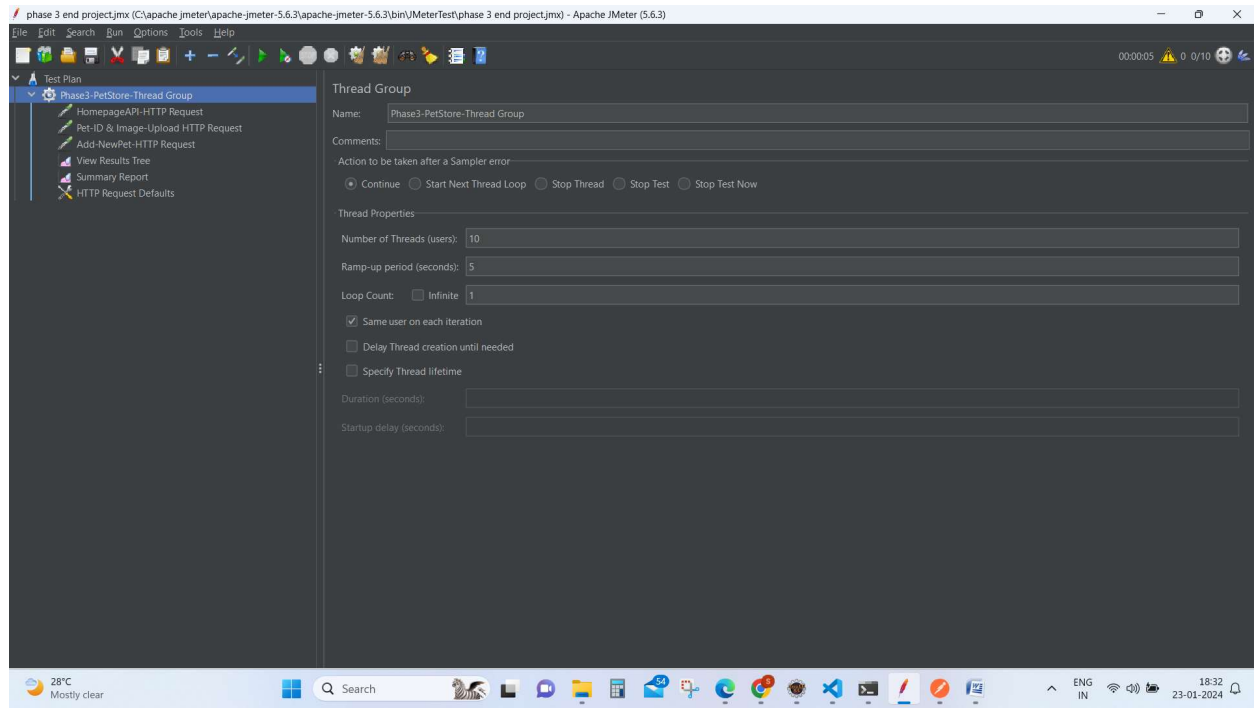
```

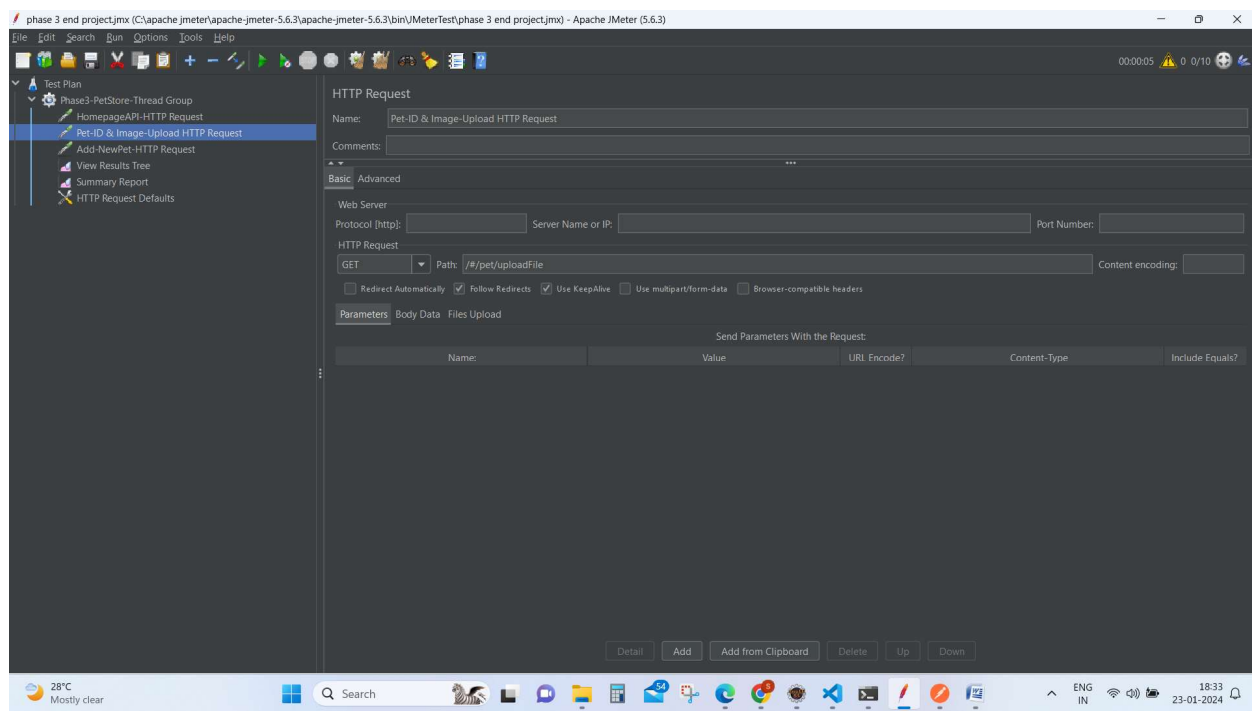
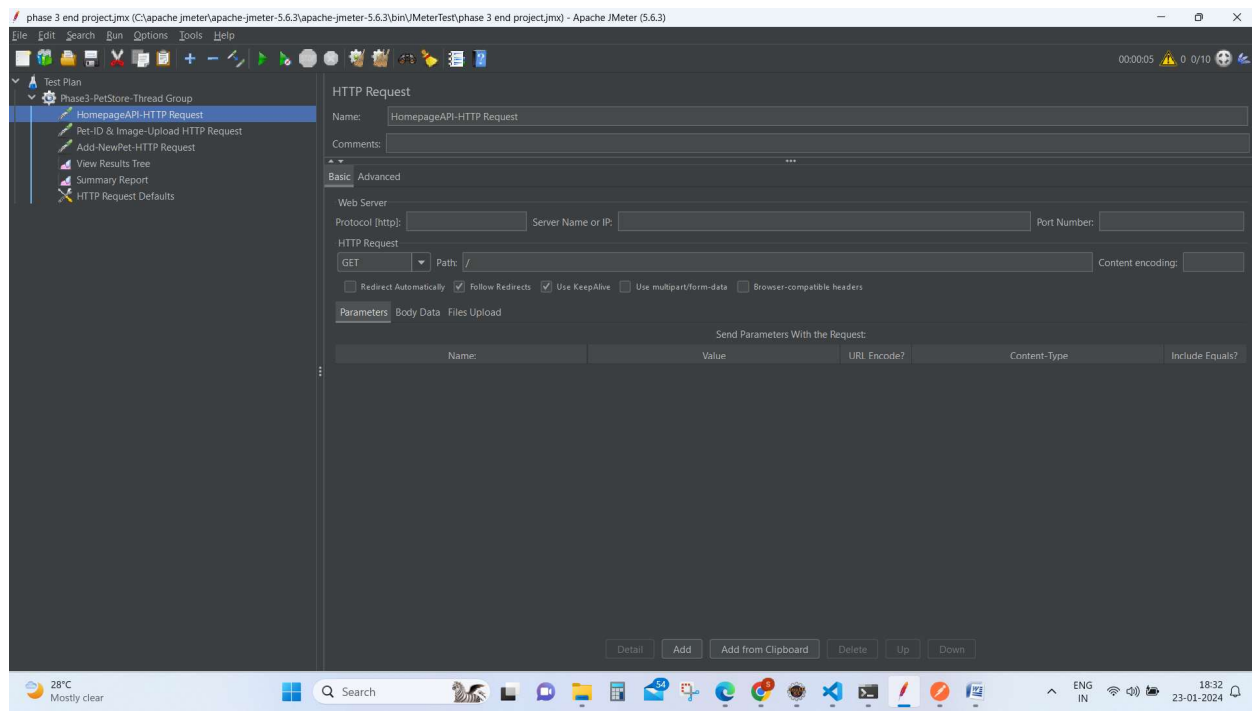
public void testUpdatePetStatus(){
    RestAssured.baseURI="https://petstore.swagger.io/v2";

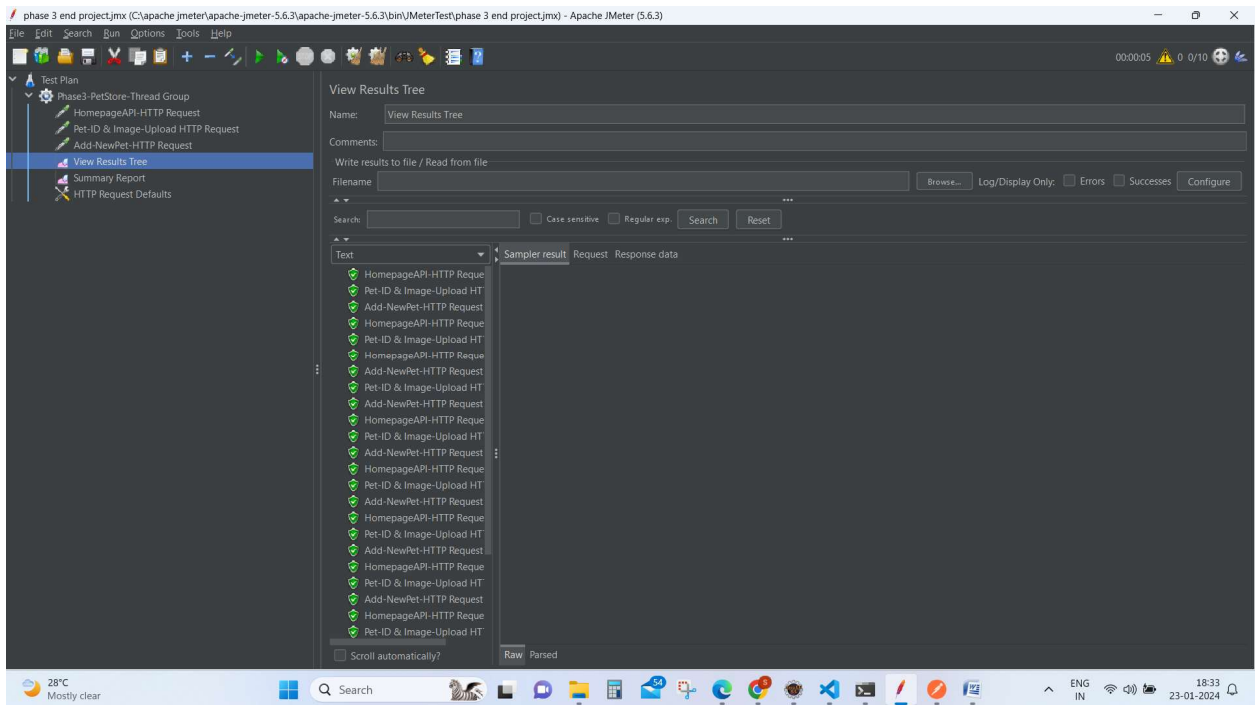
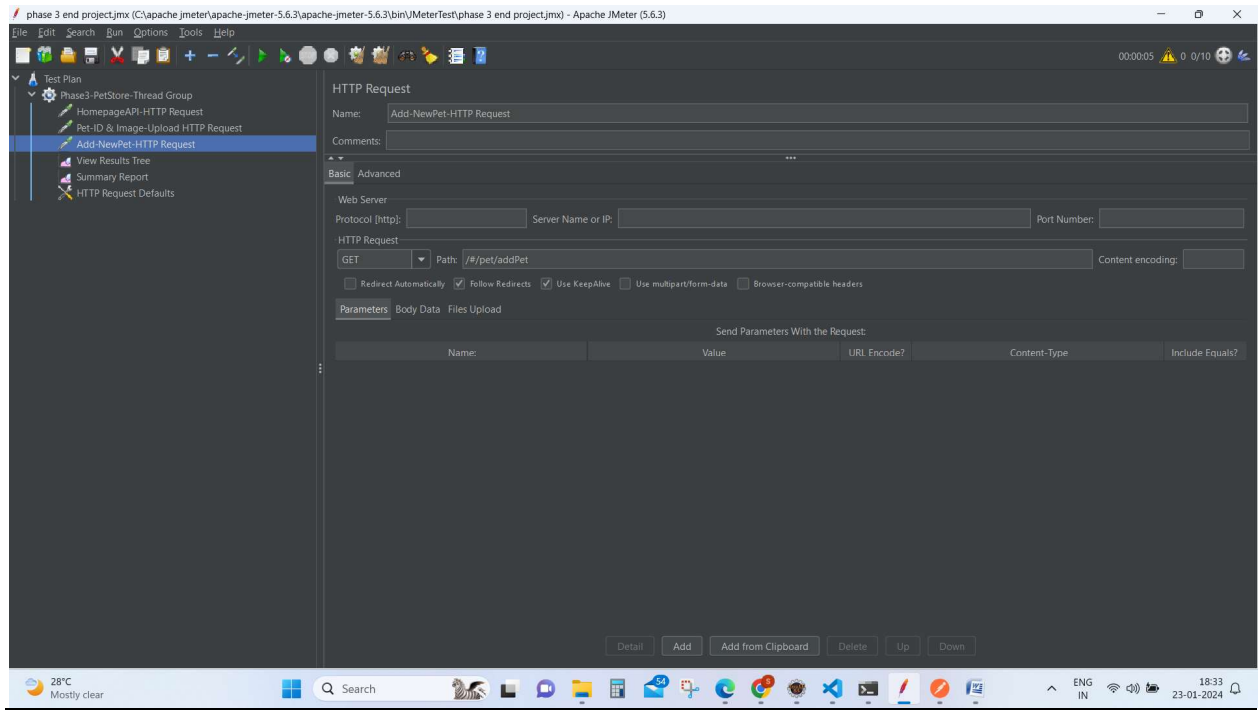
    given()
        .header("Content-Type","application/json")
        .body("{\"id\":101,\"status\":\"sold\"}")
        .when()
            .put("/pet")
        .then()
            .statusCode(200)
            .body("status",equalTo("sold"));
    }
}

```

Jmeter Framework







phase 3 end project.jmx (C:\apache-jmeter\apache-jmeter-5.6.3\bin\MeterTest\phase 3 end project.jmx) - Apache JMeter (5.6.3)

FileEditSearchRunOptionsToolsHelp

Test Plan

Phase3-PetStore-Thread Group

HomepageAPI-HTTP Request

Pet-ID & Image-Upload HTTP Request

Add-NewPet-HTTP Request

View Results Tree

Summary Report

HTTP Request Defaults

00:00:050 / 0/10

Summary Report

Name:Summary Report

Comments:

Write results to file / Read from file

FilenameBrowse...Log/Display Only:ErrorsSuccessesConfigure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HomepageAPI--	10	881	848	906	18.93	0.00%	1.9/sec	2.31	0.22	1274.0
Pet-ID & Image--	10	217	211	224	4.43	0.00%	2.1/sec	2.63	0.25	1274.0
Add-NewPet-H...	10	220	213	247	9.74	0.00%	2.1/sec	2.63	0.25	1274.0
TOTAL	30	439	211	906	312.61	0.00%	5.1/sec	6.39	0.61	1274.0

Include group name in label?

Save Table Data

Save Table Header

28°C
Mostly clear

Search

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23-01-2024