

Task 2: Backend Automation

1. Automated tests for REST API

- **Application used:** <https://petstore.swagger.io/>
- **API capability:** Pet profile (Everything about your Pets)

CRUD functionalities covered

1. POST - Add a new pet to the store: /pet
2. GET - Find pet by ID: /pet/{petId}
3. PUT - Update an existing pet: /pet
4. Delete - Deletes a pet: /pet/{petId}

HTTP responses covered

- 200 - successful operation
- 400 - Invalid ID supplied
- 404 - Pet not found
- 405 - Invalid input

Test scenarios

1. As an owner, I like to add a pet profile and view the details
 - a. Operations: Create and Read; HTTP response: 200
 - b. Steps

1	POST	/pet/	200 - successful operation
2	GET	/pet/{petId} Find pet by ID	200 - successful operation

2. As an owner, I want to delete a pet profile and check whether it is deleted
 - a. Operations: Delete and Read; corresponding HTTP response: 200 and 404 respectively.
 - b. Steps

1	Delete	/pet/{petId} Delete Pet by ID	200 - successful operation
2	GET	/pet/{petId} Find pet by ID	404 - Pet not found

3. As an owner, I want to Check whether “405” error message is thrown, when I try to delete a pet profile with invalid pet id
 - a. Operation: Delete; HTTP response: 405
 - b. Steps

1	Delete	/pet/{petId} Delete Pet by ID	405 - Invalid input
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4. As an owner, I want to Check whether “400” error message is thrown, When ID is empty for adding a pet profile
 - a. Operations: CREATE; HTTP response: 400
 - b. Step

1	POST	/pet/	400 - Invalid ID supplied
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5. As an owner, I want to update a pet’s profile
 - a. Operations: Create and update; HTTP response: 200
 - b. Step

1	POST	/pet/	200 - successful operation
2	PUT	/pet/	200 - successful operation

Output:

```

package runners;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;

@RunWith(Cucumber.class)
@CucumberOptions(
    features = "src/main/resources/features/", glue = {"teststeps"},
    monochrome = true, publish = true
)
public class runnerfileTests {
}
  
```

TESTS

Running runners.runnerfileTests

View your Cucumber Report at:
<https://reports.cucumber.io/reports/8d64aff5-55b1-4eae-b63a-b6f06e195c39>

This report will self-destruct in 24h.
 Keep reports forever: <https://reports.cucumber.io/profile>

Results :

Tests run: 5, Failures: 0, Errors: 0, Skipped: 0

Cucumber report

100% passed
5 executed

an hour ago
Last Run

6.16 seconds
Duration

Mac OS X

OpenJDK 64-Bit Server VM 19.0.1+10-21

cucumber-jvm 6.11.0

Delete Report

file:///Users/richardssaji/Desktop/restassuredcucumber-FW/src/main/resources/features/featureDef.feature

Report Edit

Feature: Covering th Pet section from the swagger page

Scenario Outline: As an owner, I like to add a pet profile and view the details

- Given I hit the pet-store and I add the Pet details "<ID>","<categoryId>","<categoryName>","<petName>","<ingURL>","<tagsId>","<tagName>","<petStatus>"
- Then The status code of the action is "<Success>"
- When I search for the pet details with Pet-ID "<ID>"
- Then The pet details are checked and the pet profile is "<Present>"
- And The details are validated against the added "<categoryName>" and "<petName>"

Examples:

ID	Success	categoryId	categoryName	petName	ingURL	tagsId	tagName	petStatus	Present
10	200	10	Dog	beagle	img.jpg	50	petStoreApi	available	200

Scenario Outline: As an owner, I want to delete a pet profile and check whether it is deleted

2. Report any bugs you find by writing a bug ticket

Bug Ticket

- Bug ID: Bug-01
- Bug Summary: petstore.swagger.io: POST operation – 200 Success response is given for a duplicate request
- Priority: Critical
- Description
 - Regression: Yes
 - Failure Rate: 100%
 - Steps to Reproduce

1- Send the request

Request URL	https://petstore.swagger.io/v2/pet
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CURL	<pre> curl -X 'POST' \ 'https://petstore.swagger.io/v2/pet' \ -H 'accept: application/json' \ -H 'Content-Type: application/json' \ -d '{ "id": 40, "category": { "id": 0, "name": "string" }, "name": "doggie", "photoUrls": ["string"], "tags": [{ "id": 0, "name": "string" }], "status": "available" }' </pre>
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2- Observe the response

3- Send the same request again and observe

➤ **Expected Result**

1. Response “200” should be given and the pet profile is created
2. Error should be thrown, since duplicate pet profile cannot be created with the same details and ID.

➤ **Observed Result**

“The Pet profile is created twice with same ID and details”

1. Response “200” should be given and the pet profile is created for the first time.
2. Response “200” is again shown when the pet profile is successfully created with the same details and ID

Screenshot Attached

```
tags: L
{
  "id": 0,
  "name": "string"
}
},
"status": "available"
}
```

Request URL

https://petstore.swagger.io/v2/pet

Server response

Code

Details

200

Undocumented

Response body

```
{
  "id": 40,
  "category": {
    "id": 0,
    "name": "string"
  },
  "name": "doggie",
  "photoUrls": [
    "string"
  ],
  "tags": [
    {
      "id": 0,
      "name": "string"
    }
  ],
  "status": "available"
}
```

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