

API Testing

The objective of this E2E API framework is to automate testing for creating and retrieving pet information in the Pet Store API. The framework utilizes Postman to send requests and validate responses, ensuring that the API behaves as expected.

Test scenarios:

- POST request to create a new pet.
 - Endpoint: <https://petstore.swagger.io/v2/pet>
- GET request to retrieve details of the created pet
 - Endpoint: <https://petstore.swagger.io/v2/pet/1>

• Detailed Test Breakdown

1. POST request

body

```
{
  "id": 1,
  "category": {
    "id": 1,
    "name": "dogs"
  },
  "name": "raul",
  "photoUrls": [
    "https://www.vets4pets.com/siteassets/species/dog/puppy/labrador-puppy-
happy.jpg"
  ],
  "tags": [
    {
      "id": 1,
      "name": "puppy"
    }
  ],
  "status": "available"
}
```

scripts

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

pm.test("pet name is raul", function () {
    var jsonData = pm.response.json();
    pm.expect(jsonData.name).to.eql("raul");
});

pm.test("pet status is available", function () {
    var jsonData = pm.response.json();
    pm.expect(jsonData.status).to.eql("available");
});
```

- Successful response test checks that the API returns a 200 http status code upon successful creation of the pet.
- Pet name test validates that the name of the newly created pet is "raul".
- Pet status test ensures that the pet's status is set to "available".

These tests confirm that the pet is created with the correct attributes and that the API is functioning correctly.

2. GET request

scripts

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

pm.test("correct pet ID", function () {
    var jsonData = pm.response.json();
    pm.expect(jsonData.id).to.eql(1);
});

pm.test("correct pet name", function () {
    var jsonData = pm.response.json();
    pm.expect(jsonData.name).to.eql("raul");
});

pm.test("correct status", function () {
    var jsonData = pm.response.json();
    pm.expect(jsonData.status).to.eql("available");
});
```

- Successful response test checks that the API returns a 200 http status code upon successful retrieval of the pet.
- Correct pet ID test validates that ID of the retrieved pet is "1".
- Correct pet name test ensures that the retrieved pet's name is "raul".
- Correct status test ensures that pet's availability is equal to "available"

These tests confirm that the created pet can be retrieved with the correct data and that the API is functioning correctly.