QA Engineer Technical Task - Estefani Bouvier

Part 2: API Testing

| ID | API_TC01 |
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| Title | Add pet - Add successfully a pet with available status |
| Description | The user should be able to successfully add a pet with available status when all fields are filled out. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": 1, "category": { "id": 1, "name": "DOG" }, "name": "Ana", "photoUrls": ["photourl"], "tags": [{ "id": 1, "name": "vaccinated" }], "status": "available" } |
| Expected result | http code: 200 body: { "id": 1, "category": { "id": 1, "name": "DOG" }, "name": "Ana", "photoUrls": ["photourl"], "tags": [{ "id": 0, "name": "vaccinated" }], "status": "available" |

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| | } |
| ID | ADI TCO2 |
| ID | API_TC02 |
| Title | Add pet - Empty name error |
| Description | Adding a new pet should fail when name data is empty. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": 1, "category": { "id": 1, "name": "DOG" }, "name": "", "photoUrls": ["photourl"], "tags": [{ "id": 0, "name": "vaccinated" }], "status": "available" } |
| Expected result | http response code is neither 200 nor 201 |
| - | |
| ID | API_TC03 |
| Title | Add pet - Missing name attribute error |
| Description | Adding a new pet should fail when the name attribute is missing. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": 1, "category": { "id": 1, "name": "DOG" |

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},
                 "photoUrls": [
                        "photourl"
                ],
"tags": [
{
                        "id": 0,
                        "name": "vaccinated"
                 "status": "available"
Expected
                http response code is neither 200 nor 201
result
ID
                API_TC04
Title
                Add pet - Null name attribute error
Description
                Adding a new pet should fail when name attribute data is null.
Endpoint
                POST https://petstore.swagger.io/v2/pet
Precondition
                The pet ID does not exist in the system.
Request
                Body:
                 "id": 1,
                 "category": {
                       "id": 1,
                       "name": "DOG"
                 "name": null,
                 "photoUrls": [
                       "photourl"
                 "tags": [
                        "id": 0,
                       "name": "vaccinated"
                 "status": "available"
Expected
                http response code is neither 200 nor 201
result
ID
                API_TC05
```

| Title | Add pet - Empty photo error |
|-----------------|--|
| Description | Adding a new pet should fail when photo data is empty. |
| Endpoint | POST /v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": 1, "category": { "id": 1, "name": "Ana" }, "name": "Ana", "photoUrls": [""id": 0, "name": "vaccinated" }], "status": "available" } |
| Expected result | http response code is neither 200 nor 201 |
| | |
| ID | API_TC06 |
| Title | Add pet - Missing photo attribute error |
| Description | Adding a new pet should fail when the photo attribute is missing. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": 1, "category": { "id": 1, "name": "Ana" }, "name": "Ana", "tags": [|

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{
"id": 0,
me'
                        "name": "vaccinated"
                 "status": "available"
Expected
                http response code is neither 200 nor 201
result
ID
                API_TC07
Title
                Add pet - Null photo attribute error
Description
                Adding a new pet should fail when the photo attribute is null.
Endpoint
                POST https://petstore.swagger.io/v2/pet
Precondition
                The pet ID does not exist in the system.
Request
                Body:
                 "id": 1,
                 "category": {
                        "id": 1,
                        "name": "Ana"
                 },
"name": "Ana",
                 "photoUrls": null,
                 "tags": [
                        "id": 0,
                        "name": "vaccinated"
                 ],
"status": "available"
Expected
                http response code is neither 200 nor 201
result
ID
                API_TC08
Title
                Add pet - Successfully add a pet without optional fields
Description
                The user should be able to successfully add a pet when only required
                fields are provided, without sending optional fields.
Endpoint
                POST https://petstore.swagger.io/v2/pet
```

| Precondition | The pet ID does not exist in the system. |
|-----------------|---|
| Request | Body: { "name": "Ana", "photoUrls": [|
| Expected result | http code: 200 body: { "name": "Ana", "photoUrls": [|
| | |
| ID | API_TC09 |
| Title | Add pet - Successfully add a pet with null optional fields |
| Description | The user should be able to successfully add a pet even if optional fields contain null values, as long as all required fields are filled out. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": null, "category": null, "name": "Ana", "photoUrls": [|
| Expected result | http code: 200 body: { "name": "Ana", "photoUrls": ["photourl" |

| |] } The response has an ID generated by the backend, it's expected but it can not be determined. |
|-----------------|---|
| | |
| ID | API_TC10 |
| Title | Add pet - Successfully add a pet with empty optional fields |
| Description | The user should be able to successfully add a pet even if optional fields are empty, as long as all required fields are filled out. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Precondition | The pet ID does not exist in the system. |
| Request | Body: { "id": 1, "category": {}, "name": "Ana", "photoUrls": [|
| Expected result | http code: 200 body: { "id": 1, "category": { "id": 0 }, "name": "Ana", "photoUrls": ["photourl"], "tags": [], "status": "" } |
| ID | API_TC11 |
| Title | Add pet - Pet ID already exists error |
| Description | Adding a new pet should fail when the pet ID already exists. |
| Endpoint | POST https://petstore.swagger.io/v2/pet |
| Епаропі | 1 001 https://petstore.swagger.io/vz/pet |

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Precondition
                The pet ID 1 exists in the system.
Request
                Body:
                {
                 "id": 1,
                 "category": {
                       "id": 1,
                       "name": "DOG"
                 },
"name": "Ana",
                 "photoUrls": [
                       "photourl"
                 ],
"tags": [
                        id": 0,
                        "name": "vaccinated"
                 "status": "available"
Expected
                http response code is neither 200 nor 201
result
ID
                API_TC12
Title
                Add pet - Add successfully a pet with pending status
Description
                The user should be able to successfully add a pet with pending status
                when all fields are filled out.
Endpoint
                POST https://petstore.swagger.io/v2/pet
Precondition
                The pet ID does not exist in the system.
Request
                Body:
                 "id": 1,
                 "category": {
                       "id": 1,
                       "name": "DOG"
                 "name": "Ana",
                 "photoUrls": [
                       "photourl"
                 ],
"tags": [
                       "id": 0,
                       "name": "vaccinated"
                 ],
```

```
"status": "pending"
Expected
                http code: 200
result
                body:
                {
  "id": 1,
                  "category": {
                        "id": 1,
                        "name": "DOG"
                 },
"name": "Ana",
                  "photoUrls": [
                        "photourl"
                 "tags": [
                        {
"id": 0,
                        "name": "vaccinated"
                 ],
"status": "pending"
ID
                API_TC13
Title
                Add pet - Add successfully a pet with sold status
Description
                The user should be able to successfully add a pet with sold status when
                all fields are filled out.
Endpoint
                POST https://petstore.swagger.io/v2/pet
Precondition
                The pet ID does not exist in the system.
Request
                Body:
                  "id": 1,
                  "category": {
                        "id": 1,
                        "name": "DOG"
                  "name": "Ana",
                  "photoUrls": [
                        "photourl"
                 ],
"tags": [
                        "id": 0,
                        "name": "vaccinated"
                  "status": "sold"
```

```
http code: 200
Expected
result
                body:
                  "id": 1,
                  "category": {
                        "id": 1,
                        "name": "DOG"
                  },
"name": "Ana",
                  "photoUrls": [
                        "photourl"
                  "tags": [
                        {
"id": 0,
                        "name": "vaccinated"
                  "status": "sold"
ID
                API_TC14
Title
                Add pet - Add a pet with not valid status
Description
                Adding a new pet should fail when the status code is not valid.
                POST https://petstore.swagger.io/v2/pet
Endpoint
Precondition
                The pet ID does not exist in the system.
                Body:
Request
                  "id": 1,
                  "category": {
    "id": 1,
                        "name": "DOG"
                 },
"name": "Ana",
                  "photoUrls": [
                        "photourl"
                 ],
"tags": [
{
                        "id": 0,
                        "name": "vaccinated"
                  "status": "not valid status"
```

| Expected result | http response code is neither 200 nor 201 |
|-----------------|--|
| | |
| ID | API_TC15 |
| Title | Get pet - Get successfully a pet |
| Description | The user should be able to successfully get a pet with an excited pet id. |
| Endpoint | GET https://petstore.swagger.io/v2/pet/1 |
| Precondition | The pet ID exists in the system. |
| Request | - |
| result | http code: 200 body: { "id": 1, "category": { "id": 0, "name": "DOG" }, "name": "Ana", "photoUrls": ["string"], "tags": [{ "id": 0, "name": "string" }], "status": "available" } |
| | |
| ID | API_TC16 |
| Title | Get pet - Not found a pet error |
| Description | Getting a pet should fail when the id does not exist. |
| Endpoint | GET https://petstore.swagger.io/v2/pet/100 |
| Precondition | The pet ID does not exist in the system. |
| Request | - |
| Expected result | http code: 404 { "code": 1, |

| | "type": "error", "message": "Pet not found" } |
|-----------------|--|
| | |
| ID | API_TC17 |
| Title | Get pet - Null parameter error |
| Description | Getting a pet should fail when the id parameter is null. |
| Endpoint | GET https://petstore.swagger.io/v2/pet/null |
| Precondition | - |
| Request | - |
| Expected result | http code: 404 { |

I chose Playwright for this task because it is a versatile tool that supports both UI and API testing. Additionally, it provided a great opportunity to learn a new library.

For API testing, I prioritized automating the most critical and blocker test cases.

For the 'Add a Pet' functionality, I selected API_TC01 - Successfully add a pet with available status since it is a crucial flow, as adding pets is a core functionality of a pet store.

Another critical test case is *API_TC08* - *Successfully add a pet without optional fields*, ensuring that users can add a pet using only the required data in case optional information is unavailable.

For the 'Get a Pet' functionality, I selected API_TC15 - Get successfully a pet, as it is a blocker test case. Accessing pet information is essential, and we must ensure users can access it.

Additionally, I included *API_TC16 - Not found a pet error* to verify that users receive an appropriate error message when searching for a non-existent pet ID.

Finally, I automated *API_TC17 - Null parameter error* to ensure the API does not return an HTTP 200 or 201 response when an invalid request is made.

For the automation, I used the 'toBe()' function to compare the received HTTP status code with the expected one. To validate the JSON response, I used 'toEqual()', and for cases where the ID should be ignored, I used 'toMatchObject()'.

For *API_TC16 - Not found a pet error*, I first performed a delete operation as a precondition to ensure that the pet ID does not exist in the database. After that, I called the GET endpoint to verify the expected behavior.