

Pet store RESTful API Test Plan:

Pet store RESTful API is the API to collect pet information and be able to get, update and delete these information.

Functional test:

- Test the Post API to make sure all required functionalities are implemented and return the expected results.
- Test the Get API to make sure all required functionalities are implemented and return the expected results.
- Test the Put API to make sure all required functionalities are implemented and return the expected results.
- Test the Delete API to make sure all required functionalities are implemented and return the expected results.

Regression test:

- Not required

Performance test: (Not complete)

- Provide output performance metrics
 - Plan to use pytest-performance, not implemented yet

Test Use Cases:

POST

/pet

Add a new pet to the store

- Post with required payload, validate API status return 200
- Post with required payload, validate posted record is returned by Get API
- Post name field is empty in payload, validate API status return 400
- Post photoUrls field is empty in payload, validate API status return 400
- Post without name in payload, validate API status return 400
- Post without photoUrls in payload, validate API status return 400
- Post without Header, validate API status return 415
- Post with not existing payload, validate API status return 405

Issues:

- Post pet API doesn't have error check for required name and photoUrls fields

/pet/{petId}/uploadImage

Uploads an image

- Post image with petId, validate API status return 200
- Post Image with empty petId, validate API status return 404

Note:

- Not Cover the test for non-required fields in POST pet API request

GET

/pet/{petId}

- Get by existing id, validate API status return 200
- Get by id empty, validate API returns 405
- Get by id not existing, validate API returns 404

Issues:

- Get pet by Id API is not working correctly. It is not returning existing pet information

/pet/findByStatus

- Get by status = 'available' or 'Pending' or 'sold', validate API status return 200
- Get by status without input parameter, validate API returns 400
- Get by status with not correct status, validate API returns 400

Issues:

- Get pet by status API doesn't have error check if status is not correct

PUT

/pet

Add a new pet to the store

- Put with required payload, validate API status return 200
- Put with required payload, validate posted record is returned by Get API
- Put name field is empty in payload, validate API status return 400
- Put photoUrls field is empty in payload, validate API status return 400
- Put without name in payload, validate API status return 400
- Put without photoUrls in payload, validate API status return 400
- put without Header, validate API status return 415
- put with not existing payload, validate API status return 405

Issues:

- Put pet API doesn't have error check for required name and photoUrls fields

Note:

- Not Cover the test for non-required fields in PUT pet API request

DELETE

/pet/{petId}

Delete the pet

- Delete by existing id, validate API status return 200
- Delete by id empty, validate API returns 405
- Delete by id not existing, validate API returns 404