**Test Plan for Petstore API’s**

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| Project Team | Petstore Team |
| Product | Petstore |
| Release Name | PSv1 Integration |
| Production Date | 11th November 2022 |
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1. **Introduction**

Pet Store APIs using the REST APIs platform and it’s documented in Swagger. This document describes the appropriate strategies, process, workflows and methodologies used to plan, organize, execute and manage API testing of this project.

# Scope

# 2.1 In Scope

We are focusing on 3 main APIs in Swagger, and those are listed in below. Mainly focusing on creating wrapper (DLL) for the Restfull API and it will manage API request and response objects. Then unit test (Test client) will use for testing for the API request/response.

PET – Everything about the pets

STORE – Access to the pet store

USER – operation about user

<https://petstore.swagger.io/#/>

**2.2 Out Scope**

The mainly focusing on API test automation. With regards to the object of this project, we are not verifying the other issues may occur in this project. Such as Performance testing, Security testing, Usability and Accessibility testing.

# Test Approach

Implement wrapper module to connect with Swagger petstore using RestSharp library. Wrapper should manage request/response objects and expose all the API calls output to any NUnit base test client with easily readable/writable format.

Test Clients:

All the possible negative and positive test cases should be implemented to test for each and every API call output codes.

E.G:   
if any API return 200 -success, 400 -invalid data,404-not found (or if  any more) then test cases  must be implemented to handle  all this status codes

# Testing Tools and Technologies

* C# .AspNet.webapi core 5.2
* aspnetcore.mvc 2.25
* RestSharp 108.0.2
* Nunit 3.13.3
* .Net core 6.0

# Test cases

* 1. Positive test cases

|  |  |  |
| --- | --- | --- |
| API’s | Test cases | Expected response code |
| PET | Test200FindByPetId | 200 |
|  | Test200UpdatePet | 200 |
|  | Test200CreatePet | 200 |
|  | Test200FindPetByStatus | 200 |
|  | Test200DeletePet | 200 |
| STORE | Test200CreateOrder | 200 |
|  | Test200FindOrderById | 200 |
|  | Test200DeleteOrder | 200 |
|  | Test200Inventory | 200 |
| USER | Test200GetUserByName | 200 |
|  | Test200CreateUsersByArray | 200 |
|  | Test200CreateUsersByList | 200 |
|  | Test200CreateUser | 200 |
|  | Test200UpdateUser | 200 |
|  | Test200DeleteUser | 200 |
|  | Test200LoginUser | 200 |
|  | Test200Logout | 200 |

* 1. Negative Test cases

|  |  |  |
| --- | --- | --- |
| API’s | Test cases | Expected response code |
| PET | Test400FindByPetId | 400 |
|  | Test404FindByPetId | 404 |
|  | Test405UpdatePet | 405 |
|  | Test404UpdatePet | 404 |
|  | Test415CreatePet | 415 |
|  | Test404CreatePet | 404 |
|  | Test404FindPetByStatus | 404 |
|  | Test400DeletePet | 400 |
|  | Test404DeletePet | 404 |
| STORE | Test400CreateOrder | 400 |
|  | Test404CreateOrder | 404 |
|  | Test400FindOrderById | 400 |
|  | Test404FindOrderById | 404 |
|  | Test404DeleteOrder | 404 |
|  | Test404Inventory | 404 |
| USER | Test400GetUserByName | 400 |
|  | Test404GetUserByName | 404 |
|  | Test404CreateUsersByArray | 404 |
|  | Test405CreateUsersByArray | 405 |
|  | Test500CreateUsersByList | 500 |
|  | Test404CreateUsersByList | 404 |
|  | Test405CreateUsersByList | 405 |
|  | Test404CreateUser | 404 |
|  | Test405CreateUser | 405 |
|  | Test405UpdateUser | 405 |
|  | Test404UpdateUser | 404 |
|  | Test405DeleteUser | 405 |
|  | Test400DeleteUser | 400 |
|  | Test404DeleteUser | 404 |
|  | Test400LoginUser | 400 |
|  | Test404LoginUser | 404 |
|  | Test400Logout | 400 |
|  | Test404Logout | 404 |

# Document Revision History:

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| --- | --- |
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