

# Test Plan

Pet Store Swagger

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**Note:** This is a test plan created for self-learning purposes

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## Revision and Signoff Sheet

### Document History

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1	11/22/2022	Nurhayat Köklü	Draft
2	11/25/2022	Nurhayat Köklü	Draft - Reviewed
3	11/28/2022	Nurhayat Köklü	Draft - Reviewed
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### Reference Documents

Version	Date	Document Name
1.0	11/28/2022	SAUCEDEMO_VERSION_1.0 – TEST PLAN DOCUMENT
2.0	11/25/2022	SAUCEDEMO_VERSION_2.0 – TEST PLAN DOCUMENT
3.0	11/25/2022	SAUCEDEMO_VERSION_3.0 – TEST PLAN DOCUMENT
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## 1. INTRODUCTION

This test plan provides detailed information about the API testing process of Pet Store Swagger–<https://petstore.swagger.io/> website. The API testing plan consists of:

- Product Analysis section which provides general information about the product under test.
- Testing Strategy section which describes how the test will be performed and the processes to execute the tests.
- Testing Objectives section which describes the overall goal and achievement of test execution.
- Test Criteria section which identifies the standard or rule on which the test procedure is based on.
- Resource Planning section which summarizes all types of resources required to complete the project task.
- Test Environment section which describes the setup of software and hardware on which the test cases is going to be executed.
- Schedule section which includes an estimation about the effort to complete the project.
- Test Deliverables section which lists all the documents, and other components that is going to be delivered during the software testing lifecycle.

## 2. PRODUCT ANALYSIS

petstore.swagger is a sample API that simulates a pet shop management server. The API allows you to access Petstore data using a set of individual calls. There are three endpoint groups namely Pet, Store and User.

### 2.1. Pet

This group, namely Pets contains every endpoint needed to manage Pet's records. You can add, remove, retrieve or update pet records through this endpoint.

### 2.2. Store

This group, namely Store contains endpoints required to manage your orders. You can create order records, update order status, or retrieve your inventory details to check your current records.

### 2.3. User

This group, namely User contains endpoints required to manage your customer records. It also contains endpoints for users to log in and out.

### 3. TESTING STRATEGY

Testing strategy of this project consists of the following steps:

- Defining the scope of testing
- Identifying Test Type

#### 3.1. Scope of Testing

**In scope:** The scope of this testing project will be limited to API testing of aforementioned product.

**Out of scope:** This test will not include any non-functional testing such as performance testing, load testing, security testing, stress testing etc. Furthermore, this test will not include any back-end testing and UI testing. Scope of this testing will be limited to API testing of the product under test. Also, the design tests and visual controls are out of the scope for this testing project.

#### 3.2. Testing Type

The testing type of this project is Functional System Testing limited to API testing in order to evaluate if the application program interface works as expected.

#### 3.3. Test Logic

This testing project is designed in such a way that application program interface is executing four main HTTP methods, namely GET, POST, PUT and DELETE. In every endpoints that the sample Pet Store server provides are going to be tested in this respect.

### 4. TESTING OBJECTIVES

The main goal of this testing is to send requests to Pet Store Server and assert if response from the server is as expected. To do this, several requests will be sent to the server and HTTP Status will be confirmed in order to check the API of Pet Store Server is working correctly.

### 5. TESTING CRITERIA

#### 5.1. Entry Criteria

The entry criteria refer to the desirable conditions in order to start test execution. In this testing project, the entry criteria is the ready test cases that includes the tests that is designed to confirm the main http methods are working with the application.

#### 5.2. Exit Criteria

The exit criteria for this testing project is the automate the prepared and manually tested test cases 100% percent.

## 6. RESOURCE PLANNING

The start date of the project is **Tuesday 22<sup>th</sup> November, 9:00 am (GMT+3)** and the deadline is **Monday 28<sup>th</sup> November, 5:00pm (GMT+1)**. There will be one tester to automate 3 test cases and 13 test scenarios. There is no technical scarcity or impediment to meet the project deadline.

There is just one risk factor that jeopardize the delivery of the project safe and sound which is that the tester who is going to automate test cases has never used the automation tools and programming language that the project requires.

## 7. TEST ENVIRONMENT

- Visual Studio 2022
- C# code
- UUnit framework
- RestSharp

## 8. SCHEDULE

### 8.1. 11/22/2022

Manually test the <https://www.saucedemo.com/> website, create test cases, check <https://petstore.swagger.io/#/> website, create a test plan draft for Front-end testing and API testing project.

### 8.2. 11/23/2022

Install Visual Studio 2022 and study C#, create a NUnit project, install RestSharp from Nuget Packages and study API Testing with RestSharp.

### 8.3. 11/24/2022

Create automated REST API testing for <https://petstore.swagger.io/#/> by using NUnit Framework and RestSharp.

### 8.4. 11/25/2022

Create a NUnit project, install Selenium, Selenium WebDriver, Specflow to create a framework for front-end testing of <https://www.saucedemo.com/>.

### 8.5. 11/26/2022

Continue automating test cases for front-end testing with Specflow BDD Framework.

### 8.6. 11/27/2022

Continue automating test cases for front-end testing with Specflow BDD Framework.

### 8.7. 11/28/2022

Finalize test plans, framework and automation test scripts and create a Github repository for the delivery and deliver the project.

## 9. TEST DELIVERABLES

1. A test plan for the API Testing of Pet Store Swagger
2. Automated test scripts in C# code, NUnit Framework and automated tests with RestSharp.
3. Manual testing steps of Pet Store application on Postman  
([https://api.postman.com/collections/23502496-e0151b59-2e9a-4b78-96ea-b8e1b7855e24?access\\_key=PMAT-01GJZAH8ZKJVJ58PGED2ZRKA2](https://api.postman.com/collections/23502496-e0151b59-2e9a-4b78-96ea-b8e1b7855e24?access_key=PMAT-01GJZAH8ZKJVJ58PGED2ZRKA2))