**1 Introduction**

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project [https://petstore.swagger.io](https://petstore.swagger.io/).

The plan identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

**1.1 Scope**

**1.1.1 In Scope**

All the feature of [https://petstore.swagger.io](https://petstore.swagger.io/) which were defined in software requirement [specs](https://docs.google.com/document/d/1rPW5DV82VJT6vtA1VDSrfxaCBuAduxW0zb1yfTh_VMk/edit?pli=1)are need to bested

|  |  |  |
| --- | --- | --- |
| Module Name | Applicable Roles | Description |
| Pet | Tester | Able to add ,update and delete the pet through sending API requests and verify the reposen |
| Store | Tester | Able to add ,update and delete the Store through sending API requests and verify the response |
|  |  |  |

**1.1.2 Out of Scope**

These feature are not be tested because they are not included in the software requirement specs

* GUI Testing
* Security Testing

**1.2 Quality Objective**

The test objectives are to **verify** the Functionality of [https://petstore.swagger.io](https://petstore.swagger.io/)Api request and response **guarantee** all these operation can work normally in real business environment.

**1.3 Roles and Responsibilities**

The project should use **outsource** members as the tester to save the project cost.

|  |  |  |
| --- | --- | --- |
| **No.** | **Member** | **Tasks** |
| **1.** | Test Manager | Manage the whole project Define project directions  Acquire appropriate resources |
| **2.** | Test | Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects.  Outsourced members |
| **3.** | Developer in Test | Implement the test cases, test program, test suite etc. |
| **4.** | Test Administrator | Builds up and ensures test environment and assets are managed and maintained  Support Tester to use the test environment for test execution |
|  |  |  |

**2 Test Methodology**

**2.1 Overview**

**2.2 Test Levels**

In the project [https://petstore.swagger.io](https://petstore.swagger.io/), there're 3 types of testing should be conducted.

* **API testing:**Test all the APIs create for the software under tested

**2.3 Bug Triage**

**2.4 Suspension Criteria and Resumption Requirements**

If the team members report that there are **40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.

**2.5 Test Completeness**

* Specifies the criteria that denote a **successful** completion of a test phase
* **Run** rate is mandatory to be **100%**unless a clear reason is given.
* **Pass** rate is **80%,**achieving the pass rate is **mandatory**

**2.6 Project task and estimation and schedule**

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Estimate effort** |
| **Create the test specification** | Test Designer |  |
| **Perform Test Execution** | Tester, Test Administrator |  |
| **Test Report** | Tester |  |
| **Test Delivery** |  |  |
| **Total** |  |  |

**Schedule to complete these tasks**

**3 Test Deliverables**

Test deliverables are provided as below

**Before testing phase**

* Test plans document.
* Test cases documents
* Test Design specifications.

**During the testing**

- Test Tool Simulators.

- Test Data

- Test Trace-ability Matrix - Error logs and execution logs.

**After the testing cycles is over**

* Test Results/reports
* Defect Report
* Installation/ Test procedures guidelines
* Release notes

**4 Resource & Environment Needs**

**4.1 Testing Tools**

|  |  |  |
| --- | --- | --- |
| **No.** | **Resources** | **Descriptions** |
| **1.** | Server | Need a Database server which install MySQL server Web server which install Apache Server |
| **2.** | Test tool | Develop a Test tool which can auto generate the test result to the predefined form and automated test execution |
| **3.** | Network | Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s |
| **4.** | Computer | At least 4 computer run Windows 7, Ram 2GB, CPU 3.4GHZ |

**4.2 Test Environment**

Test Environment to be setup as per figure below