**ToDoMVC**

**Test Plan**

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# Introduction

This document serves as the test plan created to communicate the scope, approach, resources, and schedule of all testing activities of the project ToDoMVC. The plan will identify the items to be tested, the type 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.

# Test Strategy

## Scope of Testing

## **Feature to be tested**

All the following features of the Pet Store API are required to be tested:

|  |  |  |
| --- | --- | --- |
| Module Name | Applicable Roles | Description |
| Add ToDo Tasks | User | **User:** an user should be able to add tasks in text field |
| Clear Todo Tasks | User | **User:** an user should be able to remove tasks |
| Change Task Statuses | User | **User**: an user should be able to change the task statuses |
| Delete ToDo Tasks | User | **User:** an user should be able to delete tasks |

### Feature not to be tested

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

* User Interfaces
* Hardware Interfaces
* Software Interfaces
* Database Logical
* Communications Interfaces
* Website Security and Performance

## Test Type

In the project Pet Store, there’s one type of testing being conducted.

* **Functional testing:** testing scenarios on the application itself, by controlling the browser.

## Risk and Issues

|  |  |
| --- | --- |
| Risk | Mitigation |
| Team member lack the required skills for website testing | Plan **training course** to skill up you members |
| The project schedule is too tight; it’s hard to complete this project on time | Set **Test Priority** for each of the test activity |
| A lack of communication during Scrums puts Sprint deliverables at risk | Ask each team member during Scrum meeting if they’re facing any **blockers or risks** |

## Test Logistics

### Who will test?

The project should use **QA Engineers** and **Business Analysts** as the testers.

### When will testing occur?

The tester will start the test execution when all the following inputs are ready

* Software is available for testing
* Test Specification is created
* Test Environment is built
* Enough human resource for testing

# Test Objective

The test objectives are to verify the functionality of Pet Store API; the project focuses on testing user, store, and pet endpoints to ensure all these endpoints function as specified. The testing will be completed using Postman.

# Test Criteria

## Suspension Criteria

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

## Exit Criteria

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**.

# Resource Planning

## System Resource

|  |  |  |
| --- | --- | --- |
| No. | Resources | Descriptions |
| 1. | Server | * Need a database server * Web Server |
| 2. | Test Tool |  |
| 3. | Network | Setup LAN Gigabit and 1 internet line with the speed at least 5 Mb/s |
| 4. | Computer | At least 1 computer run Windows 10 |

## Human Resource

|  |  |  |
| --- | --- | --- |
| No. | Member | Tasks |
| 1. | Tester | * Execute the tests, log results, and reports defects * Identify test techniques and tools |
| 2. | Developer in Test | Implement the test cases, test suite, test scripts, etc. |
| 3. | Test Administrator | * Builds up and ensures test environment and assets are managed and maintained * Support Tester to use the test environment for test execution |
| 4. | SQA Members | * Take charge of quality assurance * Checks to confirm whether the testing process is meeting specified requirements |
| 5. | Test Manager | * Acquires appropriate resources * Define project directions |

# Test Environment

The following is required for the test environments:

* Operating systems: Windows, Mac OS, Android
* Operating system versions: 32-bit vs 64-bit, Red Hat vs Ubuntu
* Network requirements: HTTP, HTTPS, etc.

# Estimation

|  |  |  |
| --- | --- | --- |
| Task | Members | Estimate effort |
| Create the test specification | Test Designer | 4 man-hour |
| Perform Test Execution | Tester, Test Administrator | 1 man-hour |
| Test Report | Tester | 1 man-hour |
| Test Delivery |  | 2 man-hour |
| Total |  | **8 man-hour** |

# 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**