**Test Plan**

# INTRODUCTION

This test plan describes the testing approach and overall framework that will drive the testing of JPetStore. This plan includes all the essential features such as the test items, features to be tested,the types of testing to be performed ,the resources and the risks associated with the plan.

The application consists of a Web site through which it presents an interface to customers where the customers can buy pets online.

# TEST ITEMS

* JPetStore logo
* Shopping Cart button
* Sign-In button
* Search bar
* Search button
* Picture links
* Links to different products
* Link to product description
* Return to Home page button
* Add to cart button
* Remove cart button
* Update cart button
* Proceed to checkout button
* Register now button
* Save account Information button

# FEATURES TO BE TESTED

* JPetStore logo - Redirect user to home page.
* Cart Button - Shows users shopping cart along with added items ,description, quantity ,total , sub-total ,stock availability.
* Search bar -Search desired product available in the website.
* Product Images and names - Hyperlink to more product details.
* Product ID - Shows us multiple variations of the same product.
* Item ID- Shows us the product description , price , number of items in stock and add to cart button.
* Add to cart - The product is added to the shopping cart.
* Proceed to checkout - Payment gateway page.
* Sign-In - The page that allows users to enter credentials.
* Username and password field - Allow users to type inside a given box and the password should be shown in encrypted format.
* New User registration - The credentials of a new user which will be saved and should be updated to the database.
* Save the information button - This will save the information of the new user into the database.
* Login button - Authenticate the user and if credentials match with the existing user redirect to homepage.
* Return to the previous page - Redirect to the previous page that has been accessed by the user.
* Remove button – Remove the existing items in the cart.
* Update cart button- Updates any new value and sum total the price.

# FEATURES NOT TO BE TESTED

These features are not to be tested because they are not included in the software requirement specs. (As the feature might be of low risk , for the version yet to be released or might be a functional part of some other module)

* Database - All the username , password, and every other details
* Mybatis.org - All the notifications , bug reports and update news on the website.
* Software and Communication Interface - Interfaces used to build the website.

# TEST TYPE

The type testing to be used are:

* Functionality Testing: Functional testing will be performed to check the all the functions are working properly.
* Web UI Testing: To make sure all the components within the website are connected properly.
* Compatibility Testing: To check the mobile browsing and system compatibility.
* Performance Testing: To understand the performance of the web site in various scenarios.

# TEST OBJECTIVE

The test objectives are to verify and validate all the Functionality of website JPetStore, the project should focus on testing the operation such as sign in, register, add to cart etc. to guarantee all these operations can work normally in a real environment.

# TEST CRITERIA

**Fail and Pass Criteria** At the Unit test level :

* All test cases completed.
* All bugs handled.

At the Master test level :

* All lower level plans completed.
* Runs on Linux,Mac OS X, and Windows.
* All the plans have been completed and only have a minor error.

## 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 cases.

## Exit Criteria

Exit criteria are the desirable conditions that need to be met in order.

* 100% Test Scripts executed.
* Pass rate is 95% of the test script, achieving the pass rate is mandatory.
* No open Critical and High severity defects.
* 95% of Medium severity defects have been closed.
* All remaining defects are either cancelled or documented as Change Requests for a future release.

# TEST DELIVERABLES

Test deliverables are provided as below

* Daily/weekly status report

● Test plans document.

* Test cases documents
* Test Design specifications
* Test Tool
* Test Data
* Test Trace-ability Matrix
* Test Closure report
* Error logs and execution logs.
* Defect Report

# TEST ENVIRONMENT

A windows/Linux/Mac OS X Environment with Safari, Microsoft Edge, Firefox ,Opera or Google Chrome can be used.

# RESPONSIBILITIES

## Test Manager

* Building up and leading the Testing Team to the success of the project.
* Defining the scope of testing within the context of each release / delivery.
* Deploying and managing resources for testing

## Tester

* Review and analyze the specifications of their company’s software.
* Collaborate with Quality Assurance Engineers to develop test plans.
* Execute the test report and document the defects with proper comments.

## Developer in Test

* Investigating problems in software as a result of testing.
* Designing and writing test automation scripts.

## Test Administrator

* Builds up and ensures Test Environment and assets are managed and maintained.
* Support Tester to use the test environment for test execution.

# STAFFING AND TRAINING NEEDS

* Test Manager
* Tester
* Developer in Test
* Test Administrator

# SCHEDULES

|  |  |  |
| --- | --- | --- |
| **Task Name** | **Start Date** | **End Date** |
| Making Test Specification | 09-09-2021 | 09-09-2021 |
| Milestone | 09-09-2021 | 09-09-2021 |
| Perform Test Execution | 10-09-2021 | 10-09-2021 |
| Milestone | 10-09-2021 | 10-09-2021 |
| Test Report | 11-09-2021 | 11-09-2021 |
| Milestone | 11-09-2021 | 11-09-2021 |
| Test Delivery | 12-09-2021 | 12-09-2021 |
| Milestone | 12-09-2021 | 12-09-2021 |
| Test Delivery | 13-09-2021 | 13-09-2021 |
| Milestone | 13-09-2021 | 13-09-2021 |

# RISK AND MITIGATION

|  |  |  |
| --- | --- | --- |
| **Risk** | **Impact** | **Mitigation** |
| Testing schedule is tight. If the start of the testing is delayed due to design tasks takes more time. | High | Testing team can control the preparation task in advance(strategies used, softwares required)and the early communication with the involved parties. |
| Defects found in the last stages, defects discovered late are most likely be due to unclear specifications and are time consuming to resolve. | High | The Defect management plan is in place to ensure prompt communication and fixing of issues. |
| Not enough resources,resources on boarding too late. | Medium | Companies Crisis fund will be used and the project will be finished on time |
| Natural disasters  occurs | Low | Work from home is available |

# TEST APPROVALS

|  |  |
| --- | --- |
| **Signature** |  |
| **Name** |  |
| **Role** |  |
| **Date** |  |