**Site** [**Best Friends**](http://opencart.qatestlab.net/)

**Test Plan**

**Version 2.1**

**Revision history**

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
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1. **Introduction**

* 1. **Purpose**

The purpose of this test plan is to describe the testing process of Best Friends site (full URL <http://opencart.qatestlab.net/>). The document allows to get an idea of the planned work on project testing.

* 1. **Source data**

Best Friends is a site that allows the user to order products for cats, dogs, birds and fish.

* 1. **Scope**

The purpose of testing the Best Friends site is to check the correct operation of all its functions on different versions of browsers with typical use cases. A fraction of the time (20%) will be used to test atypical / potentially error-prone usage scenarios.

The result of the testing process will be the following materials:

* report of the testing team regarding the general state, giving the developers and managers of this product a picture of the site’s correct operation in various browsers;
* report of the results of testing the current coverage, typical use cases / browsers;
* documented bugs in the bug tracker of the customer;

Testing will be done manually, by the ad-hoc testing method from the perspective of the end user of the site.

1. **Conditions for testing**

The site must satisfy the user's need for actions related to ordering goods.

1. **Testing strategy**

The following test plan is formal, as understanding of the current state of the project is needed to build a detailed plan. As a result of the first run of functional tests, changes and improvements will be made to the test plan. The first run of the functional tests will give a clear idea of the level of stability of the system and the set of tests that will be performed in each configuration will be clearly defined.

This approach will give an opportunity to get a detailed report on the product being tested and to focus maximum attention on narrow places.

The customer will be provided with daily reports on the progress of testing, defects found, suggestions for improving the work of the product and its design. All detected defects will be reported to the customer's tracker as separate tickets for subsequent correction.

In the process of testing the Best Friend site ad-hoc testing will be applied due to the lack of strict specification, as well as due to limited resources for the formalization of tests.

**Five stages of the testing process are planned:**

* the first stage is to analyze the technical requirements, develop a test plan, and run the functional tests partially;
* second stage will be devoted to a detailed run of the functional tests with the detection and description of defects;
* at the third stage, cross-browser compatibility testing will be performed with a description of the defects found;
* the fourth stage is to check the bugs fixed by the developers and conduct regression testing;
* the fifth stage is to test the product design with a description of the defects found.

Thus, maximum detailing of the testing depth is achieved, which, in turn, allows to determine the spent resources more accurately, as well as allows project developers to correct defects at the earliest stages.

**OS, approved for testing:**

* Windows 10
* Windows 11
* MacOS High Sierra

**Browsers, approved for testing:**

* Google Chrome 100.0.4896.60
* Mozilla Firefox 98.0.2
* Opera Browser 85.0.4341.47

The security testing and the stress testing are not conducted due to lack of testing time.

* 1. **Testing types**
     1. **Functional testing**

**Objective:**

Identify functional errors, inconsistencies with the requirements and expectations of the user through the implementation of standard as well as non-trivial test scenarios.

**Process description:**

**Registration / Authorization**

* User registration
* User authorization
* Anonymous login
* Password recovery

**Personal account**

* Order change
* Order tracking
* Return of purchase
* Special offers
* Order history
* Profile editing
* Deletion of the account
* User status view function
* Cancellation / confirmation of the subscription
* User logout from personal account

**Search**

* Search by filters
* Search by results
* Searching categories and subcategories
* Ability to sort search results by various parameters (reviews, rating, etc.)

**Catalog**

* Sort testing
* Using Filters
* Paging and navigation
* Displaying prices and discounts

**Product page**

* Product images
* Product description
* Product characteristics
* Delivery terms
* Product Variations
* Related products and replacements
* Breadcrumbs and other navigation

**Payment**

* Payment options and the ability to choose them
* Transitions to online payment services
* Ending a session when idle
* Payment by registered and unregistered user
* Payment confirmation by email and sms

**Shopping Cart**

* Add product
* Delete product
* Change quantity
* Returning to the basket when the browser is inexpectedly closed
* Correctness of prices and quantities
* Delivery terms
* Update
* Continue shopping

**Payment**

* Payment options and the ability to choose them
* Transitions to online payment services
* Ending a session when idle
* Payment by registered and unregistered user
* Payment confirmation by email and sms

**Blog**

* Adding a comment
* Deleting a comment

**Reviews**

* Adding a comment
* Deleting comments
  + 1. **Cross-browser testing**

**Objective:**

Check the correct operation and design of the project in various browsers.

**Browsers**

* Google Chrome 100.0.4896.60
* Mozilla Firefox 98.0.2
* Opera Browser 85.0.4341.47
  + 1. **Regression testing and verification of fixed defects**

**Objective:**

Checking the changes made on the site in order to make sure that the new version does not contain errors in the already tested parts of the site.

In the course of regression testing, the following types of tests will be conducted:

* Verification Tests
* Version testing
* Testing related functionality

* + 1. **Testing the design**

**Objective:**

Verification of product design compliance with specifications

**Process description:**

* Registration form
* Letter to the user
* Personal account
* Site pages

1. **Testing schedule**

| **Task** | **Workload** | **Start date** | **Expiration date** |
| --- | --- | --- | --- |
| Making a test plan | 12 hours | 01.04.2022 | 02.04.2022 |
| Test execution |  |  |  |
| Test Analysis |  |  |  |
| Summarizing |  |  |  |

1. **Final results**
   1. **Resume**

The final result of the testing should be the complete summary consequence of testing process with the described defects and recommendations for the improvement of the product from the perspective of the end user.