

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

**Test Plan**

**Version 1.0**

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**Revision history**

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**1. Introduction**

**1.1 Purpose**

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

**1.2 Source data**

Best Friends – website, containing the basic functions of an online store. Using the site, the user can browse the product catalog, search for products, view product descriptions, add to cart / favorites, place an order, share product descriptions with friends and others.

**1.3 Scope**

The purpose of testing the Best Friends(full adress <http://opencart.qatestlab.net>) 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 (85%) 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 [Mantis](https://www.mantisbt.org/) 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.

**2. Conditions for testing**

The website must meet the needs of users in activities related to browsing catalogs of producs, searching for producs, viewing descriptions of producs, adding to the cart / favorites, making an application, sharing in the social network

**3. 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 Friends 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 x64

MAC OS 11.2.3 Big Sur

**Browsers, approved for testing:**

Chrome 92.0.4515.159

Firefox 91.0.1

Opera 78.0.4093.147

Safari 14.1.2

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

**3.1 Testing types**

**3.1.1 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
* Profile
* Profile editing
* Deletion of the account
* Viewing wishlist
* User logout from personal account
* Viewing order history
* Reward points accrual
* Payment Profile

**Main pages**

* Home page
* Special deals

**Information pages**

* About Us
* Delivery Information
* Privacy Policy
* Terms & Conditions
* Store Info
* Returns
* Blog

**Product category pages**

* Any filters such as product filters, colours, sizes, types of product, etc.
* Any ability to sort products by name, price, size, etc.
* Add to shortlist or wish list facility.
* Add to the cart.

**Product detail pages**

* Product title
* Product description
* Product images
* Enlarge image
* Related products
* Any further product information, colours, sizes, options, extras.
* Add to shopping cart

**Product search**

* Keyword search.

**Shopping**

* Add product(s) to shopping cart.
* Check display of product information, including image, is correct in shopping cart.
* Click on product in shopping cart to go to product page.
* Adjust quantities of product in shopping cart.
* Remove product from shopping cart.
* Check relevant message displayed if no items are in shopping cart.
* If minimum order value required for free delivery, check adding sufficient product value triggers free delivery option.
* Check subtotal adds up correctly.
* Add a valid discount code (if applicable) and check discount is applied correctly.
* Add an invalid discount code (if applicable) and check correct message displayed to the user.
* Check any links to information pages on delivery, returns, etc. open in a new tab.
* Click Checkout to process to Checkout process.

**Checkout and Payment Systems**

As this is a testing plan for an ecommerce site then a specific section of the plan should be devoted to the checkout and payment area of the website.

**Checkout Process**

* Check that users can proceed through Guest checkout.
* Check that existing customers can login with username/password.
* Check that existing customers can login via social networks.
* Check that users can register a new account.
* Check the delivery address details can be input.
* Check that alternative billing address details can be input.
* Check that user can select payment method.
* Check that final amount to pay is correct, after the price of the products, VAT or other taxes, delivery and any other charges.

Test making changes to the products being ordered, changing delivery options, etc. and make sure that this final amount updates correctly.

**Payment System**

Carry out a test payment using each payment method that you are offering such as debit cards, credit cards, Paypal, Google Checkout, etc. Your payment system will most likely still be in test mode before you launch so all test payments will be carried out using the test payment details.

An example list of payment types is as follows:

* Place false payment
* Test cancelling order

Check that confirmation emails are sent correctly when a payment is made, whether those confirmation emails are being sent by your website or by the payment provider.

Make sure that you can refund a payment and that any confirmation emails are sent to the recipient of the refund successfully.

You will probably want to carry out several payments again once the site is live so you can use real debit and credit cards to check the system works correctly.

This is the central aspect of your ecommerce website and so if time is short then make sure you thoroughly test the checkout and payment area.

**Social**

Check that social buttons, icons or links are in place and work correctly.

Any sharing buttons should also be configured correctly.

**3.1.2 Cross-browser testing**

**Objective:**

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

Browsers

Chrome 92.0.4515.159

Firefox 91.0.1

Opera 78.0.4093.147

Safari 14.1.2

**3.1.3 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

**3.1.4 Testing the design**

**Objective:**

Verification of product design compliance with specifications **Process description:**

Registration form

Letter to the user

Personal account

Site pages

**4. Testing schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Workload** | **Start date** | **Expiration date** |
| Making a test plan | 3 hours | 29.08.21 | 09.09.21 |
| Test execution | 5 hours | 29.09.21 | 09.09.21 |
| Test Analysis | 3 hours | 29.09.21 | 09.09.21 |
| Summarizing | 11 hours | 29.09.21 | 09.09.21 |

**5. Final results**

**5.1 Resume**

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

Total found: 8 function bags.

1. Blocker. Updated the cart page and does not to proceed to checkout after clicking the “Checkout” button.

2. Major. Only numbers can be entered in the "Last Name" field on the "Register Account" page when registering a new account.

3.Major.  Doubled quantity of products are displayed in cart dropdown after added product to the cart.

4. Minor. The lack of function to changing the characteristics of the item in the shopping cart after add the item in the cart.

5 Tweak.. The error validation message is not displayed in the "Returning Customer" form after entering invalid password less than 6 symbols and clicking “LOGIN”.

6. Tweak. The error message is not displayed in the "Returning Customer" form after sending empty validation fields and clicking “LOGIN”.

7. Tweak. The validation message is not displayed in the "Returning Customer" form after adding valid data.

8. Tweak. The error validation message is not displayed in the "Returning Customer" form after entering Invalid email and clicking “LOGIN”.