

Online Shop Migration Testing Project

Test Plan

Team	Bohdana Kravchenko Yana Shtyka Olga Aseinova Marharyta Nhuien Kateryna Polishcchuk
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Product Owner	Yaroslav Babchynskui

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1. Introduction

The purpose of this test plan is to describe the testing process of the online shop “My Store” (full address <http://164.92.218.36:8080>). The testing of the site will be performed after changes to the infrastructure: moving to another hosting, implementing the Memcache contextual caching system, and updating the PHP interpreter to the latest major version. This document allows a team to get an idea of the planned work on testing the project.

The test project goals:

- To identify existing project information and software components to be tested.
- Description of the testing strategies: testing types and ways, risks, and metrics.
- To identify the required resources and create a schedule for testing.
- Description of an environment and tools that will be used for testing.
- List the results of the test project.

The results of test execution will be sent to the customer as reports. All found bugs will be tracked using the bug tracker.

2. Testing Scope

The following components and functions will be tested:

High priority:

- Products catalog for sale, divided by categories and subcategories
- Search for products in the catalog
- Filtering of products
- Product cards that contain images, descriptions, prices, availability status
- Product pages with options to select size, color, quantity
- Adding items to the cart
- Mini cart
- Order placement as a guest
- Order placement as a registered user

Medium priority:

- Sorting products
- Quick product view
- Adding products to a wishlist
- Changing the quantity of each item in a cart
- Removing items from the cart
- Viewing attractive offers: Sale, New Arrivals, Popular Products
- Registration and authorization
- User accounts

- Adding comments
- Sharing a product on social networks
- Navigation using breadcrumbs
- Feedback form

Low priority

- Checking the footer
- Changing the language
- Changing the currency
- Subscribing to newsletters

3. Testing Out of Scope

We won't do performance and stress testing, security testing, cross-browser testing, and testing on different OS because of the lack of time. Also, order payment and placing the order in full is out of scope because the site is a test site and these functions don't work.

4. Test strategy and approach

4.1. Assumptions

- Complete migration: all data, including product catalogs, user accounts, transaction history, and content, have been fully migrated to the new environment without loss of corruption. In case of loss or damage of data and permissions during the transfer, it is necessary to make a data backup before starting the migration and deploy it on a new hosting, if needed.
- A stable testing environment during the testing phase, with no major hardware, software, or network configuration changes.
- Reliable internet connectivity, any interruptions in connectivity may impact the accuracy of the test results.
- No major changes to the business processes during the testing period, which might affect the web store's functionality.
- Access to a production environment with production setup, server configurations, and databases.

4.2. Testing Types and ways to test the features in scope

The main testing types that would be executed:

- Manual testing
- Smoke testing
- Functional testing

- Regression testing
- UI testing
- UX testing
- Retesting: testing of fixed bugs

Testing will be done manually without creating automated tests.

The first stage will be smoke testing to ensure the web store's end-to-end functionality works after the migration.

Regression testing will be performed to verify all features and functions work after the migration.

Functional testing will take most of the testing effort because it aims to verify the product's specific functionality and compliance with its requirements.

Also, we will perform UI testing to verify that the layout of the web pages and visual elements appear as intended after changing the infrastructure.

UX testing will be made to check how convenient and intuitive the site is to use for the buyer.

Retesting is necessary to check fixed bugs.

The last stage is regression testing again to find errors that may appear after fixing previous bugs.

Before starting the test process, test documentation as checklists and test cases will be created. Functional and UI testing will be performed following these test documents. Bug reports will be created during the tests.

4.3. Risks

The next issues may influence testing work:

- A delay in the migration process will lead to a delay in the start of testing.
- Changes and modifications of the website that we had yet to plan and discuss with the test team beforehand.
- Delays in fixing bugs that were found.
- The tester can go on sick leave, so there is a need to appoint a replacement tester for this case before starting the testing process.

4.4. Metrics

These metrics will help to estimate the progress and quality of the testing process:

- Number of defects found
- Number of critical defects
- Number of fixed/not fixed defects
- Passed tests percentage
- Schedule variance

5. Resources

The testing will be performed by one tester. The number of days for testing is 5. One PC with OS Windows 11 x64 is needed for the testing process.

6. Schedule

Day	Activity
1	Smoke testing and regression testing
2	High-priority functional testing
3	Medium-priority functional testing and low-priority functional testing
4	UI testing and UX testing
5	Retesting and wrap-up

7. Environments and Tools

The environment for testing is OS Windows 11 x64, Chrome browser of the latest version.

Tools:

Process	Tool
Bug reporting	Jira
Test cases and checklists	Testomat.io
Screenshots and video capture	TechSmith Capture

8. Documentation

Deliverables of the testing process will be documents:

- Test plan
- Test cases and checklists
- Bug reports
- Reports regarding the testing progress

