

Software Test Report of E-commerce platform		
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1. Introduction

This document is the final software test report of the exploratory testing phase performed for the e-commerce platform. It contains the testing scope, test suit together with its result and conclusion of the areas that can be improved for better end user experience and higher product quality.

2. Test summary

2.1 Testing scope

Functionalities to test:

1. Search Functionality:
 - Evaluate the search feature's functionality.
 - Ensure search results are relevant and correctly displayed.
2. Shopping Cart Integration:
 - Test adding an item from search results to the shopping cart.
 - Verify that the cart updates correctly and includes the "Flat Rate \$5.00" shipping charge in the total calculation.
3. Wishlist Feature:
 - Validate adding an item to the wish list.
 - Ensure the item appears correctly in the 'My Wish List' page.

2.2 Designed test suit

Required functionalities that had to be tested have been covered by manual (search functionality – 1 test case) and automation tests (shopping cart and wish list feature – 7 tests). For the automation Playwright tool has been chosen with TypeScript language.

2.3 Test results

Test execution shows that for:

- **Manual tests** – search feature doesn't work as it probably should (it is hard to evaluate since platform requirements are not available). Main problem with search is that search results consist of products that doesn't fit searched phrase.

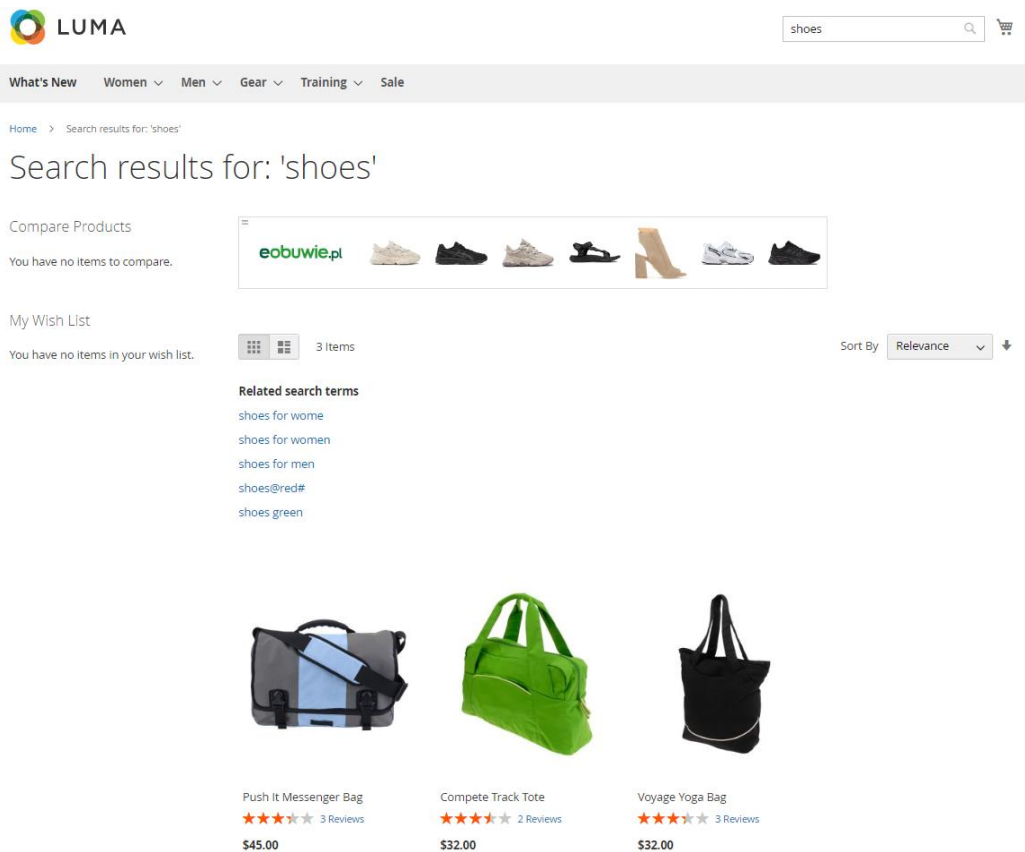
E.g. when user searches 'shoes' key word, as a result he gets different types of bags, but no shoes. The problem is that provided keyword is searched within the product description, but not only in its name or category, which could make searching feature more precise and accurate to user needs.

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- **Automation tests** – after many runs of automation test suit it was noticed, that very often different type of notifications that should be displayed for the user with some information are not shown at all, e.g. when product is added to wish list or when some options selections are missed for the product that user wants to add to shopping cart. It makes that tests are not stable, and it is mainly caused by the application itself.

Automation test report is generated every time after test suit run and it is described in README.md file that is a part of this project.

3. Suggested actions

- Increase page performance in general, for now it works very slow and sometimes page elements are not loading as they should,
- Make sure, that notification that suppose to be displayed for the user is visible every time when it should,
- Manual update of wish list, after some products have been removed is something that needs to be changed and handled automatically by the application,
- Letting know for the user that selected size or color is not available right now should be validated at the time, when he wants to select some option (can be e.g. disabled?), not when adding it the shopping cart, as it is right now,
- There is a need to make automation tests more stable, especially the one, where server response code is verified ('Start placing order, add item to cart...') because request redirections are not handled and sometimes it fails when getting 302 code instead of 200.