**nopCommerce Test strategy**

1. **Test approach**

The search functionality is working, however I see lot of issues and when compare to wireframe or a design it’s not behaving what exactly user wants and its very user friends. In order to improve the quality in search function I can suggest the following testing has to be conducted on search functionality in staging environment or before release into prod environment.

1. **Types of Testing**

**Unit Testing**

Unit tests are required and it play important role to reduce the bugs. Initially, I would recommend developer should have a unit test case first. Make sure all unit tests pass has been review with QA tem.

**Pair testing with developer**

Once code has been written and before going into staging environment QA and developer should participate in pair testing. It saves time and easy to fix the bug if they found any bugs in pair testing.

**Functional Testing**

Once pair testing has completed search functionality would be in good shape. Search functionality can move to QA or staging environment. Where QA can spend more time and execute the test cases based on uses cases or design or wireframe document.

**Usability Testing**

In search functionality or any ecommerce website usability plays key role. When customer spending some time on website make sure it has to be user friend and customer should understand easily without spending much time. The search functionality is not user friends it missing validations errors and ambiguous.

**User Acceptance Testing**

Once search functionality matches the core functions and criteria. Fixed all bugs (if any found in pair testing or QA environment) Product owner and operations team can involve in user acceptance testing.

**Performance Testing**

The of this testing is not find a bugs but the search results should be response time, reliability

**Security Testing**

1. **Test Environment**

Operation system: Windows 7, 10, Apple macOS, Linux, Ubuntu

Browser: Chrome, Safari, IE , IE edge, Firefox

Automation: Cypress

**Testing Tools**

Cypress, Moch, chai,nodeJs, yarn