

Graduation portfolio

Reading guide

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Introduction

This reading guide serves as extra documentation for my portfolio during my graduation internship at Moonly Software, for my IT & media design study at the Fontys University of applied sciences.

The goal of this reading guide is to add context to the process of how I ended up with the deliverables for this internship and how I structured my projects. It also gives you a summarised version of my internship.

The portfolio can be visited online:

<https://graduation.lucswinkels.com>

This reading guide is also available as an online version:

<https://graduation.lucswinkels.com/reading-guide>

The assignment

Context

Masita, a leading Dutch sportswear brand, had a Magento webshop developed a few years ago. However, it turned out that there were a lot of different requirements and desires that were built as extensions to Magento by various developers, including Moonly. Additionally, Masita worked with other parties for tasks such as order picking and shipping, the ability to customise items, and selling products on other channels (such as bol.com, etc.). To integrate these software systems with the Magento webshop, a number of connections were written.

Due to insufficient consideration for future-proofing, scalability, and the Magento framework as a basis when creating these integrations, they did not function properly, leading to more and more cracks in the system. Whenever an external integration was updated, the entire order process behind the store would come to a halt. These technical problems alongside a lack of priority from the owner due to upcoming ownership changes, meant the webshop kept declining.

Ultimately, Masita chose to cease operations, and the webshop was taken offline due to escalating problems with the website. Currently, these integrations no longer work, and they have not been updated for over a year.

Last year, Masita was acquired by the current owner, and they are in the process of completely redesigning their webshops. Subsequently, Moonly was asked to start developing a B2B store so that they could begin selling items to businesses.

Now that Moonly is working on completing this B2B store, we want to think ahead and commission a study on the development of a brand new B2C store.

The current problem analysis is as follows: Masita is currently unable to sell products to B2C customers because all integrations are disabled on the current website (masita.com, which is often inaccessible), and it is not possible to order products. Additionally, this website, having not been updated for over a year, often experiences downtime and has low speed. Since the Magento store is currently unusable, and Masita does want to sell products again, we need to explore how a new B2C store can be realised.

Design challenge

Design a new e-commerce platform that enables Masita, a leading Dutch sportswear brand, to sell products to individual customers (B2C) in a seamless and reliable manner, taking into account past integration issues and system failures.

Summary

The assignment is to research which technologies can and should be used for the project, create user-friendly designs that are optimised for UX and conversion, validate these designs with user tests, then develop these validated designs into a working prototype by using the earlier researched technologies.

Full assignment

Moonly and Masita have decided to collaborate on a new B2B and B2C store so that Masita can resume selling their products. Since it was important for Masita to start selling to businesses first, a B2B store is currently in development. In the future, a B2C store will also need to be developed.

For the B2C store, Masita has provided several requirements. There must be the ability to sell printed shirts, customers must be able to manage orders, and it should be possible to sell products through external stores. The B2C store should have similar styling to the already in development B2B store, as it is based on Masita's branding. The lay-out, however, can be changed freely to cater towards individual customers instead of businesses.

Since Moonly wants to avoid the same pitfalls and problems encountered with the Magento store when developing this new store, we want to first conduct research into the best solution for developing this new store. This research should not only consider Masita's various requirements but also focus on how the B2C shop can encourage customers to start ordering from Masita again. While the B2B shop primarily focuses on functionality for retailers, the B2C shop needs to be optimised for UX and conversion to help Masita regain its position in the market.

Additionally, the results of this research are intended to be translated into a proof of concept/prototype of a B2C store so that Moonly can develop a new B2C shop with a validated foundation.

To validate the designs and/or prototypes, user tests should be set-up that can be done in-house, or through personal connections and social media channels as the target audience is not very niche. In this case, the target audience is anyone who wants to buy clothes for working out. While there is access to user databases with previous Masita customers, this project does not yet include global testing for the prototype.

The research will be conducted with Moonly as the client and has been initiated by Moonly in preparation for developing the B2C shop. Masita is not the client in this case (though they may be a stakeholder).

Process

To start off, I wrote a [project plan](#) documenting the project's goals, problem statement, scope and time plan. In this project plan, I also defined the main research question and which sub questions are needed to support it:

Main research question

- How can a new, user-friendly B2C webshop be built and validated by research?

Sub questions

- Which problems did the old magento-based B2C-webshop face and how can I avoid them?
- Which features are needed for the B2C-webshop and with which priority should they be implemented?
- Which platforms can and should be used to develop the new webshop?
- How can Masita's technical requirements be integrated?
- How can I make sure the new webshop is user-friendly and optimised for conversion?
- With these questions in mind, I started conducting research on which technologies could be used.

To further identify the requirements of the project, I made a [list of requirements and user stories](#) ordered by priority using the requirements prioritisation method.

Previous issues research - TBA

E-commerce platforms research - TBA

Burden of proof

The burden of proof can also be seen in an online overview here:

<https://graduation.lucswinkels.com/burden-of-proof>

Learning Outcome	Evidence
1: Professional Duties	
2: Situation-Orientation	
3: Future-Oriented Organisation	Project plan
4: Investigative Problem Solving	
5: Personal Leadership	
6: Targeted Interaction	