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STREAMLINING STOCK MANAGEMENT FOR SHOPS WITH A B2B ORDER ENTRY SYSTEM

Home project in ICD0009

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Tallinn 2023

Author's declaration of originality

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

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11.02.2023

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1 Introduction

The purpose of this project is to create a B2B service for shops, offering a solution for ordering specific stock. Currently, many of these shops face difficulties in finding and purchasing the right products, leading to lost revenue and dissatisfied customers. This solution aims to address this challenge by providing a one-stop-shop platform for these shops to find and order the exact products they need.

Similar services are available in the market, but they are often cumbersome and not tailored to the specific needs of shops. This solution will be designed with these shops in mind, offering an easy-to-use and efficient platform for them to quickly get the stock they need.

A shop user can represent one or multiple shops, which belong to a customer, which owns one or more shops. Users can create, manage and submit orders for a shop for delivery, and track the status of their deliveries. The status of orders and deliveries are visible on the app's dashboard.

For placing orders, the system will support finding products by category, and a search feature. In the product's display page, the user can set a selection of how many of the product the user wants in specific sizes and colours. When the user is ready to submit the order with an expected delivery date, the system will also check if the order is viable for submission, checking if it's possible for the customer to pay for the order.

Once an order is submitted, the system will await confirmations from an external ERP system, which will confirm when each item in the order will arrive at whatever shop was specified by the user, and when they do arrive. The ERP system is outside the scope of this project, but the B2B application will have controllers listening for any requests from the ERP system.

2 Diagrams

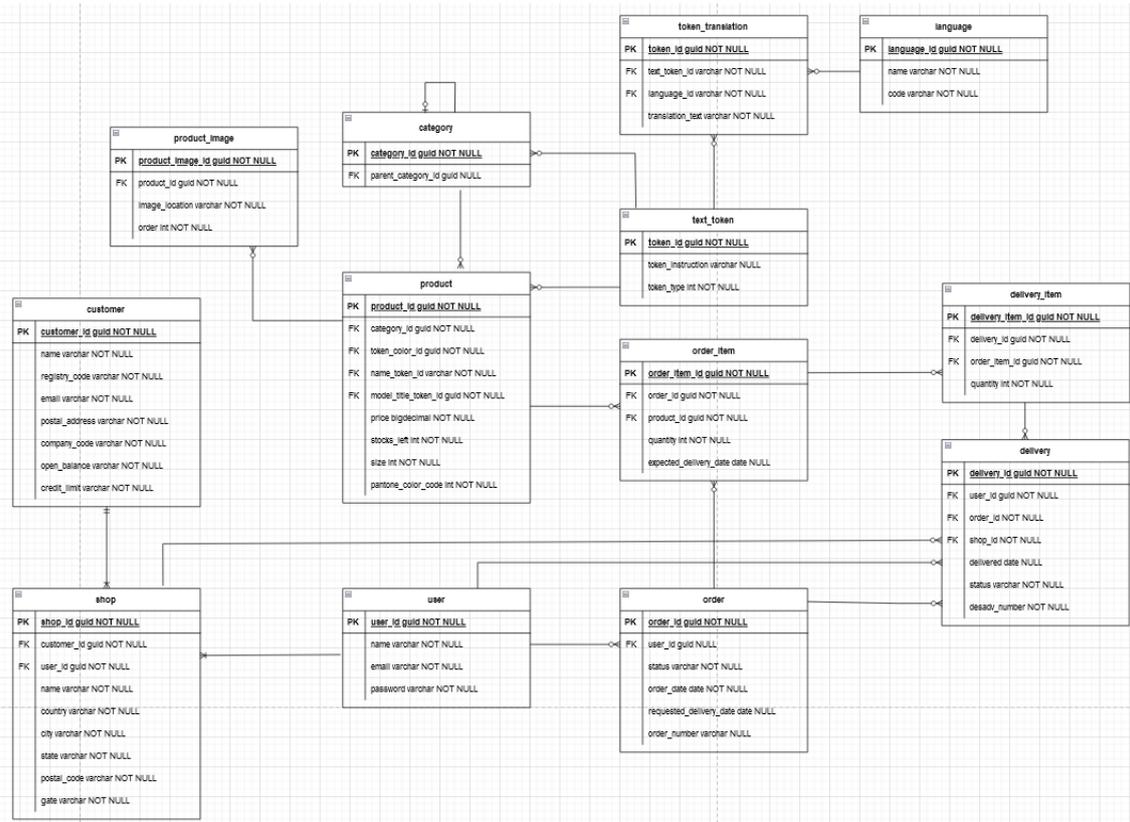


Figure 1: Entity Relationship Diagram

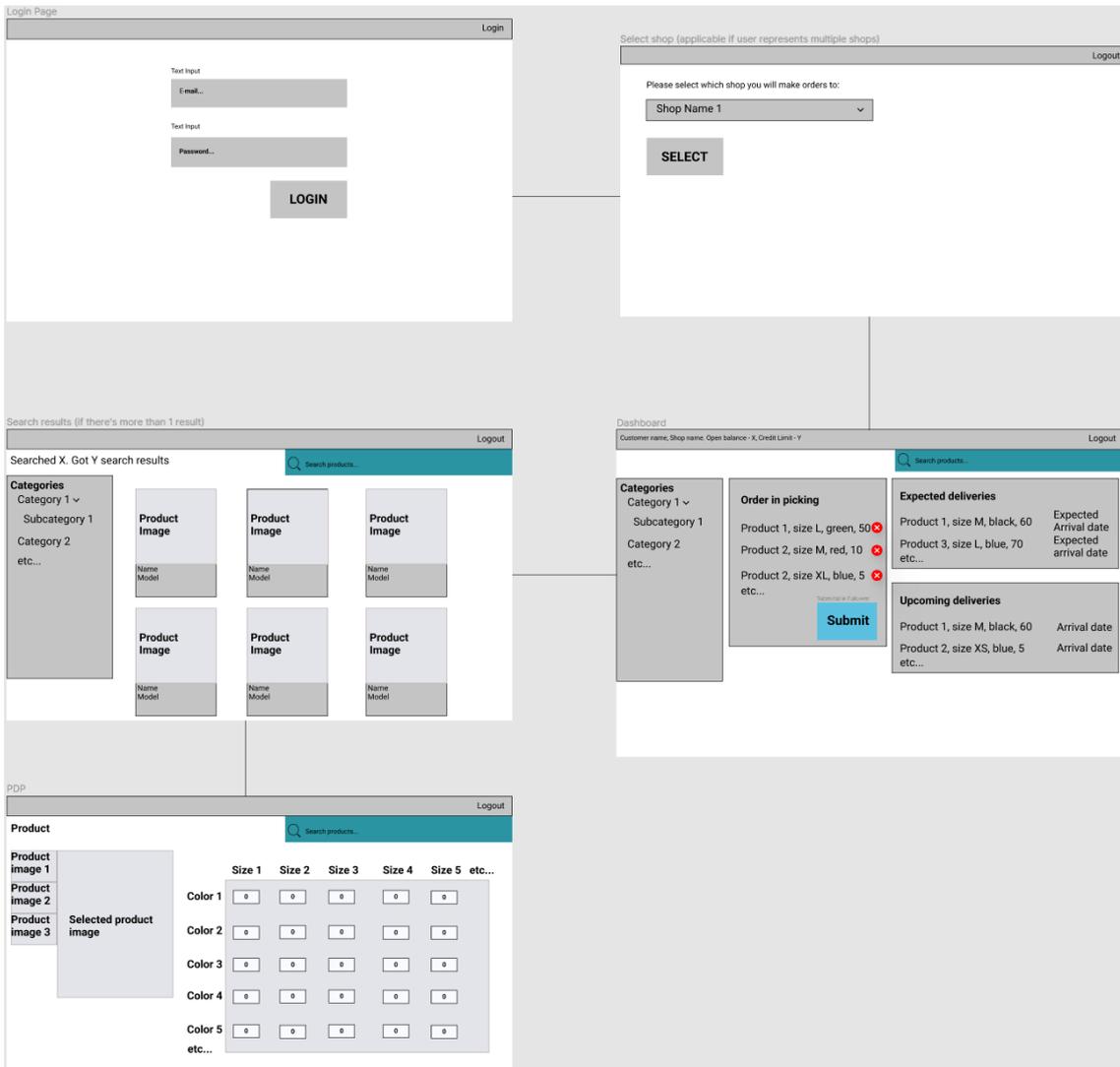


Figure 2: Main Client Flow Screens