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School of Information Technologies

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Product Information and Stock Management System

Distributed systems course project

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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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1 Overview

The goal of this project is to create a product information and stock management system to standardize and simplify the process of managing products and stock state of a company. This will make stock and product management more convenient and ensure that the information format of the products will be the same even though the products themselves can be acquired from several different suppliers. A working product information management system will also eliminate the need to enter same product information several times, it will work as a central information hub about products which all of the company's channels can use. With just a few clicks a new product can be added into the system and is basically ready to be sold whether in a physical or online shop. Product information management system behaves as a support beam for the company's online store as it frees up the online store's resources.

The users of this application will be the workers of the company who have been given the authority to use it. With the application the workers can update the state of the inventory and add, edit or remove products.

Although the application is planned to be used in a medium sized company which repairs sells spare parts, and other accessories to Apple devices, the aim is to design the application in a universal pattern which will allow this application to be used in companies which are focused in other fields of life. As it was mentioned the application will have real practical value and will be developed further after this course.

Since the time to work on this project is limited by the length of the course, the first important goal will be to finish a minimum viable product and if there is more time then start implementing features that would be nice to have but are not necessary for the application to work.

Product information and stock management system in 2023 is a must have to any company that wishes to be competitive and better than its rivals as it offers a vast selection of benefits.

2 ERD

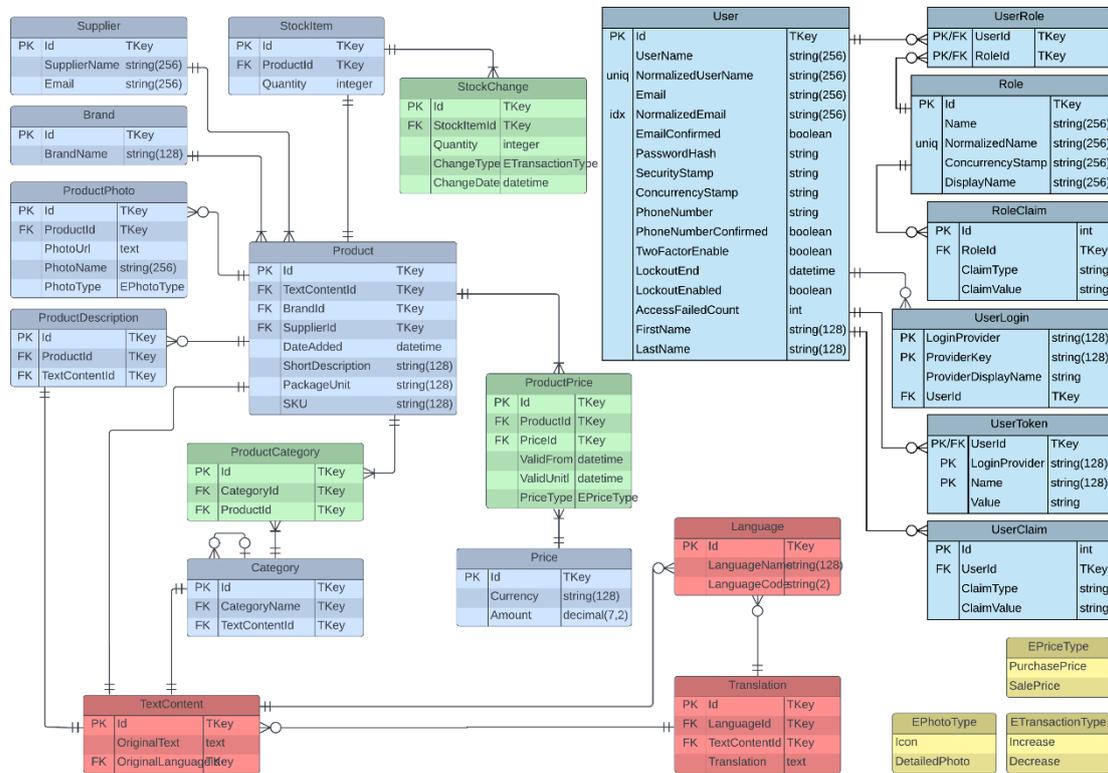


Figure 1. Entity relationship diagram

Striped, blue tables are considered entities, striped red tables are for multi-language support, light blue tables without stripes are for user management/identity and yellow tables are Enums and are brought out on this diagram just to clarify their values and improve the overall readability of this diagram.

3 Positive flow screen sketches



Figure 2. Login view

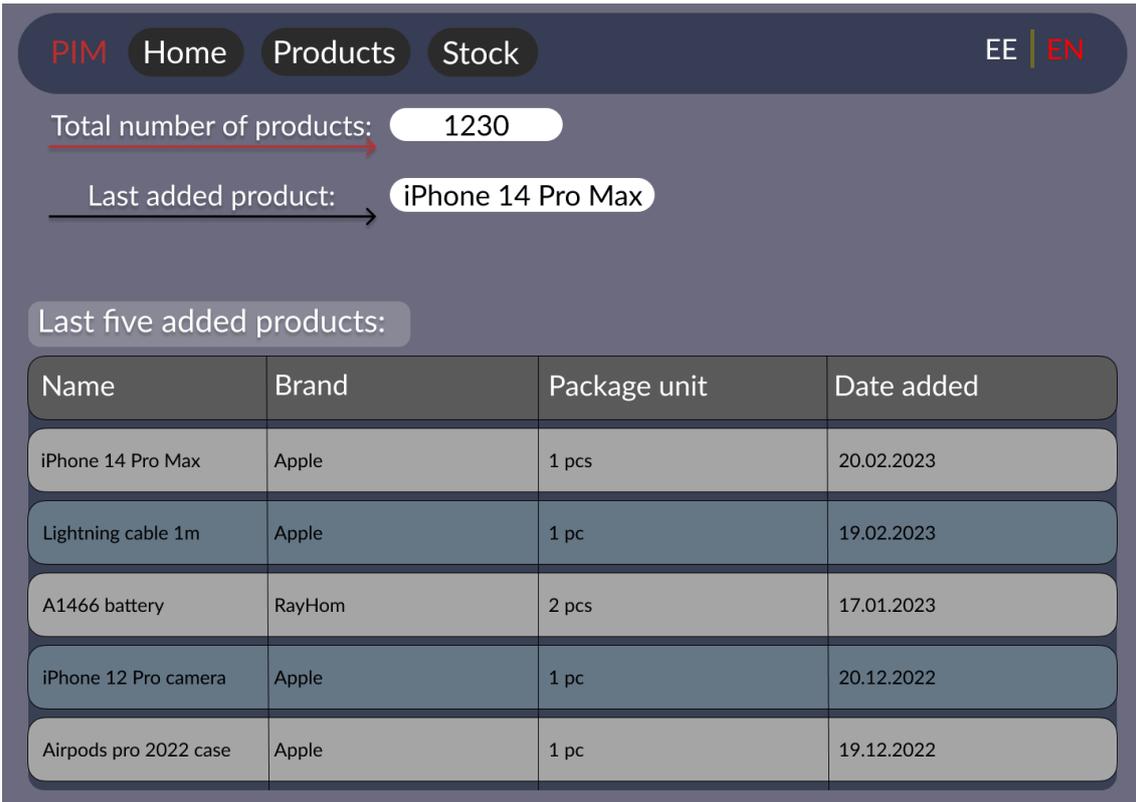


Figure 3. Home view

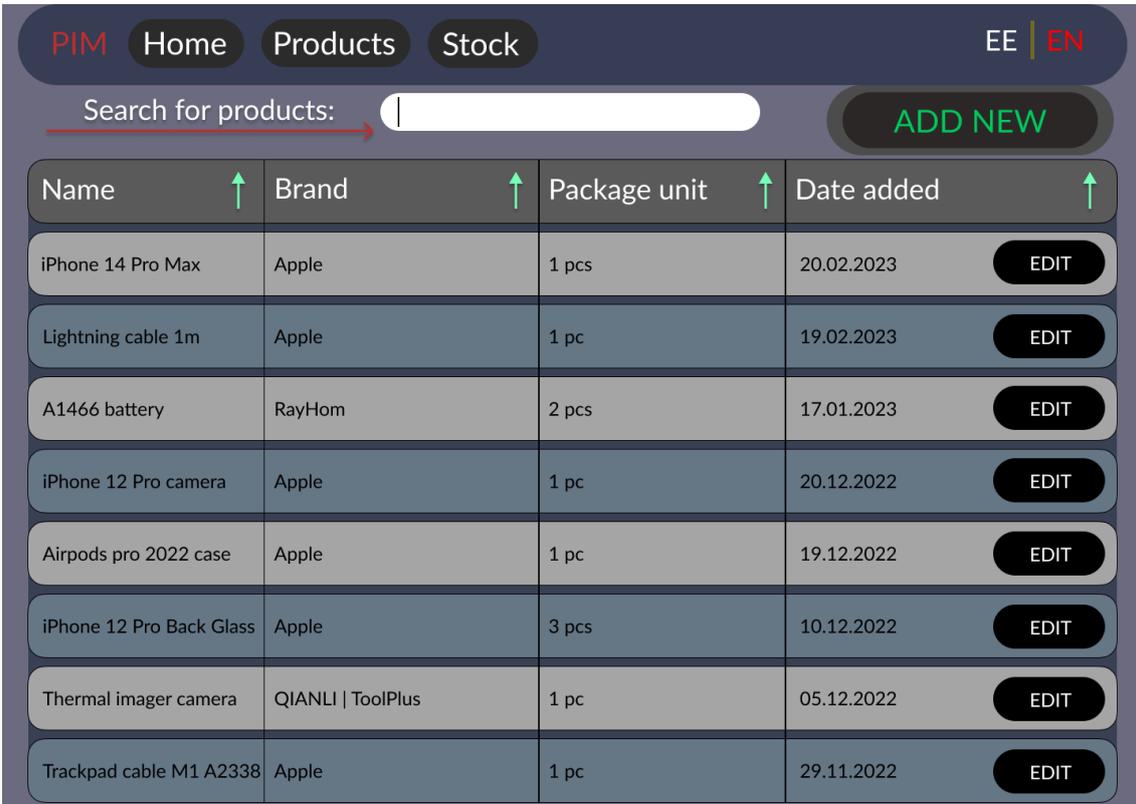


Figure 4. Products view

PIM Home Products Stock EE | EN

Supplier **Add new** Packaging unit Buying price

Brand **Add new** Stock keeping unit Selling price

Product name Short description Quantity

Long product description

Add product

Figure 5. Add product view