

UNIVERSIDAD DE LAS FUERZAS ARMADAS “ESPE”
OBJECT-ORIENTED PROGRAMMING

GROUP PROJECT

PRODUCT MANAGEMENT SYSTEM FOR SMALL STORES

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PROJECT NAME: Product management system for small stores

At present, small **stores** do not have a **system** that helps them manage their products, thus creating a **supply** and **expiration problem**, because by not having this **system**, many of the **products** expire and generate losses for the **company**.

PROBLEM:

When a product **warehouse** is launched, Pymes do not have a **supply chain management** system (SCM), which generates dissatisfaction with customers and distributors, since not having this system, they produce a **decrease** in the optimization of product management.

OVERVIEW:

Currently, due to the **pandemic**, many **people** have found the **need** to undertake through the **creation** of micro-stores, in which the **inventory** management of products and others, continues to be rustic, this would be improved thanks to a system of product management in these micro-stores.

¿What to do ?

Develop a Java-based system for the correct management of small **store** products.

¿What will it be ?

It will be of great help to the store **owner** because it will help them to manage their products more easily through pre-programmed notifications about supply and expiration.

¿How will it do?

A system will be developed in the Java programming language, using some programming methods such as: matrices, forms, use of files, **data** validation, all this will serve for the entry of data by the User, who must enter the system through a user and password.

For data **storage** we will choose to use a database for the correct storage.

¿Where it will be implemented?

This system will be implemented in a small store called "(ELEGIR UN NOMBRE)" located in the south of Quito.

BACKGROUND:

- **Product classification:** It is necessary to make an inventory of the products to be able to know their classification within the store, **quantity** and **price**

- **Product technique:** Know the existence of **sales**, offers and also the demand for the product, to be able to know with which products to supply more to the store with the help of **suppliers**, in **addition** to being a product close to expiration, the **user** will be informed with 10 or 15 days in advance.
- **Product collection:** we need to know the processes carried out by the sales manager of the products, to automate certain manual processes
- **Barcode Management:** Barcodes are what distinguish one product from another.
- **Inventory Management:** Knowing how to manage the inventory is necessary to facilitate this process through this system to know when to promote a product.