

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

**GROUP PROJECT**

**PRODUCT MANAGEMENT SYSTEM FOR SMALL STORES**

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## **Shark Minds Tech**

**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 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.