**Universidad de las Fuerzas Armadas ESPE**

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**Walkthrough Of The Project**

**DESCRIPTION-REQUIREMENTS**

At the beginning, the group made a brief description of what their project will be about, which consists of a basic inventory of a craft store. When analyzing the basic state of the description, it is seen with respect to the requirements that some classes have been omitted such as:

Supplier

Sales

Categories

On the other hand, some words were used from the description which were made later in classes, with respect to "categories" later it became an attribute of a class.

**REQUIREMENTS-CLASSES**

In order to appreciate the work of the requirements reflected in the class diagram, a somewhat thorough inspection was carried out, more than anything to be able to observe if the appropriate classes were implemented and also if modifications were made to it. It was possible to capture the main classes such as "product", "invoice" (this includes the sale of products), "inventory", the registration of products to the inventory. Despite having the basics already implemented in the classes, some requirements are omitted which are important, such as the alert or notification of how many products we have left at the time of making the sale and in the case of the role there are two, which are shown in the use case diagram, "administrator" and "employee", but in the system the login can be done through the users separately but without having a menu distribution, thus resulting in both the employee as the administrator has the same permissions and visibility possibilities in the system. And giving as a final point to this section, the requirement for a graphical interface has not yet been made for the reason that this is a code-only project without a graphical interface.

**DIAGRAMS-CODE**

With respect to the code you can see that it agrees with the classes implemented in the class diagram with their methods, attributes, packages, etc. The only thing that does not agree is as mentioned above with respect to the use case diagram, where there are different roles, but in the code they have the same permission or possibility of viewing the system despite the roles that were required "administrator" and "employee." The rest is in accordance with what is shown in the diagrams.

**Validation:** Without a doubt the program works as requested, it runs, which is essential, it generates a login, asks for username and password, and enters without problem, it has functionality, it does the requested CRUD of the inventory and also creates the invoices to register the sale of a product.

**Verification:** The correct functionality of the program will be analyzed here, giving as important points some failures, in the first instance, when wanting to enter through the two different roles as administrator and employee, they have the same permissions and functions which were in the requirements. It is important to have the menus separated for these two different roles. Second, when selling one of the products, it cannot generate an inventory update, that is, it cannot verify how many products remain after making the sale.