UNIVERSITY OF THE ARMED FORCES ESPE
ASSIGNMENT 04 DEFINING THE PROJECT "BOOKSTORE"

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Problem: The main purpose of this project is to prepare a study of methods for the process of "Organization, distribution of merchandise and customer service" of the Stationery, which has as basic examples notebooks, pens, rulers, erasers, markers, cardboard, dictionaries an infinity of articles based on software engineering together with methodologies, it is a study of type not experimental and is supported by an area investigation, since it is projected to obtain a knowledge with a general vision of what really happens in the current stationery process, being evaluative because its vision is to leave in a clear, exact and precise way the operations with the vision of correcting failures and implementing new alternatives to improve the process. It works in the bookstore. Through the process diagram, the study of time and information from different sources, it was possible to define the causes of the problem throughout the process, making an analysis of it to determine the possible solutions. We want to establish a merchandise registration system where all the movements are carried out from day to day.

Overview: Make the inventory received by the supplier so that you can have a file of all the products in our inventory such as dictionaries, books, rules, pencils, folders, notebooks and also be able to issue invoices, sales notes, cancellations, returns, collections and even a search for products by name or code carried out by an employee, in an organization carried out in lockers and aisles, in order to search for a product and tell us what value it has, how much stock there is, how much that product has been sold and in what aisle and box number is located, in order to optimize the work and help the client to receive the fastest attention.

Background: Thinking about how to improve the quality of a user/seller of a person in charge of a bookstore, we asked ourselves what is most important and most effective in a program: What do you need? or How to make the sale of products more effective?

This is how considering all the quantity of products that a stationery store can have, we focused on the capacity of a program to store all these data and to order them in the form of an inventory with the facility to enter the sales and thus generate invoices for the customer and all these products are discounted from the inventory.

Investment	Product	Profit
Expenditure	Purchase	Product sold
Base	Consumables needed	

Capital	Extra products

OBJECTS:

Achig Toapanta, Steven Jossue
- Book : color, material, numberOfPages, editorial, author, title, sell(), buy(), ...
- Dictionary: bilingual, conceptual, numberOfPages, sell(), buy(), bid()
- Invoice: mandatoryIssuance, broadcast(), cancel()
- Supplier: name, honest, bid(), sell()
- Employee: name, age, responsable, sell(), bid()
- Inventory: owner, storage, date, storeProducts(), showProducts(), makeSale(),..

Caiza Tacuri Alisson Lisbeth
- Painting: quality, number of colors, brand, sell(), buy(), check ()
- Rule: Size, quality, durability, brand, buy(), sell(), display()
- Sphere: Color, Quality, Brand, TipType, Buy(), Sell(), Try()
- Client: name, age, respectful, buy()
- Plotter: model, cost, makeGraphics(), calculate(), approximateGraph(), …..

Asmal Haro Kevin David
- Pencil:color,material,model,sell(), buy(), bid()
- Silicone:material,brand,sell(), buy(), bid()
- Notebook:material,model,numberOfPages,sell(), buy(), bid()
- HighlighterPen: Brand, color, durability, quantity, buy (), sell (), promote ()
- Folder: material, size, capacity, tipe, sell(), storeDocuments(), buy(), bid(), ……

Cadena Díaz Jeremy Joel

- Markers:colors,material,model,sell(), buy()
- Calculator:model,material,size,sell(), buy(), offer()
- Invoice: data, address, ID, date, valueWithoutTaxes(), calculateTaxes(), totalValue(), ……
- CardStock: Size, quality, type, color, buy(), sell(), offer()
- Photocopier: brand, size, cost, copy(), move(), combineImages(), …..