****

**COMPUTER SCIENCE DEPARTMENT**

**OBJECT ORIENTED PROGRAMMING 9642**

****

**INSTRUCTOR:** PHD. Edison Lascano

**SOFTWARE REQUIREMENTS**

**Code Warriors:** Edison Verdesoto, Mateo Quishpe, Leonel Tipán.

**Software Requirements Interview**

1. **Profile** 
   1. **Name:** Sandy Ortiz.
   2. **Company:** S&O Hardware Store
   3. **Workstation:** Owner
2. **The Problem**
3. **What is the problem to be solved?**

Need a program to enter items from the hardware store.

1. **Why does the problem exist?**

The problem exists because with so many sales it is not possible to easily keep track of the products that leave and enter the hardware store, so the application would help to keep that record in a better way and need help for calculate the percentage of profit from the products.

* **How do you solve the problem now?**

I create a document in excel and I update it every week with IVA formula, 30%-20% of profit, waste to much time and its not too easy for me.

* **How would you like the problem to be solved?**

I would like to have a program in my computer that allows me to quickly manage the search and the amount of it in the business per item entered, plus I would like to calculate the taxes and 30%-20% gain to get the correct sale price.

1. **User Environment**
2. **Who will be the main user?**
   * 1. Just me, to owner.
3. **What are your expectations of use of the software?**
   * 1. To be easy, practical, and intuitive, it must also give me accurate data and make it easy to search for products.
4. **What type of information will the software get?**
   * 1. Items.
     2. Product price.
     3. VAT on products 30% and for faucets 20%
5. **What kind of application would you like to have?**
   * 1. Application for desktop PC with an eighth generation i3 processor, a memory of 4 GB of RAM with Windows 11 of 64 beats.
6. **What type of documentation would you like the software to give?**

The report of products in stock, taxes, sale price, and supplier list should be detailed, including relevant information and accurate calculations. It should be available in a downloadable format, such as PDF or spreadsheet, and provide the option to print it for ease of use and sharing with other users. Additionally, the report should also display the list of suppliers, providing information such as their names, contact details, and the products they supply.

1. **What interfaces do you need?**

 As an interface, the menu should include options to input new products, display sold items, list suppliers, and show the remaining inventory items.

1. **Verification**
2. **What is a satisfactory result?**

For the system to be satisfactory it must be agile, efficient, understandable, do nor crash and be automated to not waste time.

1. **Do you have any restrictions?**

It allows me to download and print the report if it is necessary as a physical backup, as well as another backup in the cloud and the system should work only with my account to avoid any outsider in the system. And it will be a PC application.

1. **Summary**

Without a program the client must waste time once a week to update the inventory, have to search for the supplier contacts one by one in order to supply any empty spot in her inventory, also she has to calculate the sale price one by one to get his profit. The software will do all these actions more efficiently and will give the client more time to spend on the most important things.

Interview YouTube Video: <https://youtu.be/4yvGGJaW0A4>

Google doc: <https://docs.google.com/document/d/13EgZSEoyby1RI3w8C_mjWDxG0vV2EunaPfsbtP5dWXI/edit?usp=sharing>