

PROBLEM

We are going to develop a system that helps to keep the inventory of a hardware store, since it is currently being done manually, so we are going to implement: a system that automates this work, in addition to having exact data of the amount of merchandise that exists in the warehouse.

OVERVIEW

Inventory plays a vital role in the operation of a hardware store, as it is an important tool for managing and controlling the products available for sale. The construction equipment store has in stock all the products and materials offered, from construction tools to home furnishings and gardening products. Inventory is fundamental to the success of a hardware store, as it guarantees efficient product management, optimizes purchases, satisfies customer demand, reduces losses and improves operational efficiency. A hardware store that keeps a well-organized and up-to-date inventory is more likely to achieve its business goals and provide satisfied customers

BACKGROUND

The importance of hardware store inventory is based on the need to effectively manage the products and materials available for sale. Inventory is essential to ensure accurate inventory management and maximize the efficiency of a hardware store.

Inventory allows hardware stores to know which products and quantities are available at any given time. This is essential to meet customer needs quickly and efficiently. Customers rely on hardware stores to have the supplies they need for construction, repair or home improvement projects, and proper inventory ensures that these products are available when they are needed.

- **Inventory control:** This helps to prevent problems such as product shortages or overexposure of certain items, which in turn can lead to lost sales or excess inventory.
- **Customer satisfaction:** Customers will be able to find the products they need without delay and receive immediate service. This helps to generate satisfaction and loyalty, which in turn can increase sales and improve the reputation of the hardware store.
- **Reduce losses:** Well-managed inventory helps to reduce losses and waste. This allows you to identify obsolete, expired or damaged products and take measures to reduce their impact on financial results.

- Operational efficiency: Inventory management also helps to improve the operational efficiency of hardware stores. With real-time visibility in the warehouse, the replenishment, reception and storage of products can be planned rationally.

In addition, inventory is also essential to prevent losses and control theft. By keeping up-to-date and accurate inventory records, you can detect any discrepancies between the records and the physical inventory. It helps to identify possible problems of loss or theft and to take measures to prevent and solve these situations.

ANALYST COMPARATION

To avoid these problems, a system has been planned to help the hardware store keep the stock of its products in the warehouse under control.

The system consists of a program where the respective employee has to enter his/her data such as his/her name, ID and job title that he/she employs. Then the system will give you access to the inventory program.

In the next step the program will display the menu with the following options:

- Registration of stock of items
- Add new items
- Remove items
- Log out of the system
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In the options to add and remove items the employee has to make a specification, in item registration for example if the addition was by purchase or return in the case of removing an example would be sales or expiration.

The system can be kept open until the employee decides to close it with the option to Exit the System

With this the hardware store will have its own system where they will know which items, they have in possession to ensure sales.