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.

Objectives

- **Automation:** Implement a system that automates inventory management tasks, reducing the reliance on manual processes. The system should be updating the inventory records in real-time.
- **(Real-Time) Inventory Tracking:** Ensure that the system provides accurate, real-time information about the quantity of each item present in the warehouse.
- **Product Categorization:** Develop a system that categorizes products based on their type, brand, and other relevant attributes.
- **Alerts and Notifications:** Implement an alert mechanism that notifies warehouse personnel when stock levels for specific items reach a predefined threshold.

Benefits

- **Improved Efficiency:** By automating inventory management tasks, we can save time and effort. This will free up employees to focus on more activities, such as customer service.
- **Accurate Stock Control:** We can ensure accurate stock control, reducing the risk of overstocking or stockouts. This will lead to improved customer satisfaction and optimized inventory levels.
- **Streamlined Operations:** The new inventory control system will streamline various processes, including order fulfillment, stock replenishment, and returns management.