# Project definition: Store Management System for EVSU Store console version.

## Problem

We need a system to manage the operations of a store called EVSU Store. This system should allow us to manage a catalog of products for sale, make sales and purchases, manage inventories, record sales, generate invoices, and manage customers, suppliers, and managers.

## General description

In the field of retail, it is essential to maintain effective control over stocks, sales and purchases. Additionally, it is crucial to have a clear record of customer-employee interactions. This system will allow the EVSU Store to perform all of these tasks efficiently and effectively.

## Background

EVSU Store sells various products including clothing and hardware components. The store has various roles, such as managers who can hire salespeople and make purchases to replenish inventory, salespeople who can place orders, and customers who can make purchases. Orders are converted to sales once payment is verified, then an invoice is generated and inventory is updated. The store also keeps track of all sales made.

## Class details

Inventory class: Stores and manages products for sale in the store. Allows the creation of a product catalog.

Customer Class: Allows customers to make purchases from the catalog.

Manager Class – Allows managers to contract vendors and make purchases to replenish inventory.

Vendor Class – Allows vendors to generate orders for products in the catalog.

Order class: Converts an order to a sale once the payment is verified.

Sale Class: Generates an invoice once the payment of an order has been verified, and updates the inventory according to the sale made.

Catalog Class: Allows you to view the products available for sale in the store.

Clothing Class: It is a subclass of Product, it represents the "clothing" type products in the store.

Hardware Component Class: It is a subclass of Product, it represents the "hardware component" type products in the store.

Sales Record Class: Keeps a record of all sales made, including information about the customer who made the purchase. This class can also print the sales and calculate the total money sold.

## Conclusions

With these classes in place, the EVSU Store will be able to efficiently manage its inventory, make sales and purchases, and keep a clear record of all customer and employee transactions and interactions. This system will provide EVSU Store with a solid foundation for its daily operations and future growth.