

Problem

We need a software that effectively help us to set up, buy and receive products for the customers

Overview

Our project that we're making, would be a software that gives us an effective and quick access when we're shopping for our groceries through a **shopping cart**. This software will show a well set up **menu** for the **client**, this one includes a classify items list for all the products that we're selling, an effective **billing system** to count **revenue** and **expenses**, and an interactive menu for the customers and **updates for improvements**.

the list of products will be:

- Oils
- Appetizers
- Coffee, Tea and Drinks
- meats
- Cereals
- Alcoholic beverages
- Frozen
- Confectionery
- Nuts and Seeds
- Fruits and vegetables
- Seasonings
- Dairy and Eggs
- Vegetables
- Rice and Flours
- Jams
- Pasta
- Fish and seafood
- Sauces

Background

Grocery stores stock their shelves with food and drink items, and maybe a handful of household items at most that only has a owner, this means that grocery stores it doesn't belong to a

supermarket chain or anyone related, other feature about that we have its size, while a supermarket have a big building with immense shelves with all sort of products, a grocery store is a short and less products variety. Having this we can figure out how a grocery is made of and how it works itself, we are going to see their features and functions.

The project offers an interactive menu which adapts to the needs of the user and provides a quick, efficient and friendly option to make a **purchase**, it contains a list of options classified with the different types of products found in a store. In a grocery store, you need a **cashier** where the items that were sold are recorded along with their respective invoice. In turn, they also find various containers to keep products that can deteriorate over time.

Inventory system

An **inventory** must be kept, one of them, it is the ability to predict; With the registration of an inventory, an orderly account of all the products can be established, this allows to have a balance in inputs and outputs and above all allows to predict what is needed at the moment exactly.

An inventory system is defined as a set of standards, methods and procedures applied in a systematic way to plan and control the materials and products used in an organization. This system can be manual or automated.

Facturation

The invoicing and inventory system that will be implemented in the project consists of keeping an order entry control by suppliers and managing the costs of each of the items. With this, it provides a facility to control all the expenses that are made counting on the income and outputs of any item, thus monitoring everything to have an organization in the store. It is necessary to maintain this billing system to satisfy customers and guarantee an agile and effective system so that they can be trusted.

what is a bill

It is a commercial document that reflects all the information of a sale and purchase transaction. The fundamental information that appears on an invoice must reflect the delivery of a product or the provision of a service, together with the accrual date, in addition to indicating the amount to be paid in relation to inventories, goods owned by a company for sale in that ordinary of the exploitation, or for its transformation or incorporation to the productive process.

The invoice must include the data of the sender and the recipient, the details of the products and services supplied, the unit prices, the total prices, the discounts, if any, and the taxes.

The invoice is the only tax receipt, which gives the recipient the right to deduct the tax (VAT).

Why does the billing system matter

Invoicing systems are an important tool that provides many advantages in business and large companies since it greatly facilitates manual work for the preparation of invoices. It must be taken into account that in the invoices you can see all the movements of money, such as entries and exits, these are also a support for accounting calculations, a company must have the record of all invoices since in these These are the clear support of accounting, therefore having a billing system guarantees an accurate record and not vulnerable to losses.