

**UNIVERSIDAD TECNOLÓGICA DE**

**SAN LUIS RÍO COLORADO**

**TAREA 3**

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The company in question works in the sale of miscellaneous. It is a family business which has not been active for many years. By which all their inventory is carried out manually by the same workers. Also in recent years, the company has had a fairly notable growth, which is why we are being hired to develop a system that helps them have a better and complete management of their assets and inventory. By automating they hope that their growth can be controlled in a better way ensuring their future success. The owner requires the ability to remotely review the inventory of their warehouses without the need to be present in the city. Including the registration of point of sale operators in their different branches as well as automatic updating of their inventory upon receipt of product or at the time of sale.

**The description of the problem.**

At the time of the company expanded to new regions a number of problems have been presented to them which are a direct consequence of the growth towards other cities.

The owner describes several of the reasons why he requires the development of a system for inventory control in his warehouses.

The main reason of this problem is that the owner has been doing all his inventory by hand. Because of this there is not a communication with the other stores warehouses.

Also, the client has told us that there are occasions when the quantity of product in his foreign warehouses is not enough to cover the demand of the clients and also lately they have been presenting product losses and cases of employees not knowing the conditions of the product at their arrival to their warehouses.

**Identify stakeholders.**

Stakeholders are spread across different areas of the company. At the top of the hierarchy table are the owners, then the plant or section supervisors, and in the end finish with the plant workers and suppliers.

**Identify what resources will be used to make the system work in the company and how it will be developed by programmers.**

The system in question will be carried out by analyzing how the company already works. This will simply automate much of what has been done since the beginning of the business. The process that is already carried out by the stakeholders will be evaluated in order to later abstract the process to an object-oriented programming language.

A total team of 3 programmers will be required, the first will be assigned the task of creating the part that is responsible for inventory management in warehouses, the second will be assigned the task of creating the database in which all the records of movements made by anyone in the company, and the third will have the task of designing the same system as well as the records of all stakeholders. The cost of this system will be a total of $ 80,000 Mexican pesos plus the per diems of the team in the development of the system.

**Defining the general objective.**

Thanks to the development of this system that will be carried out effectively, the expansion of the company to different parts of the country will be carried out in the correct way without the risk of common errors that may arise for a company when opening several branches in the states of the country.

The problems presented by the owner will be eliminated in order to be able to give importance to other types of problems that may appear to him at the time of its expansion. And when more problems appear in the same way they will be eliminated to be more effective.

The lack of proper knowledge of the exact quantities of product and resources is preventing the safe control of the company by seizing how many workers, inventory and demands there it is between all stores in the locations. Surges the need of a shared net to communicate safely the locations and keep accessibility to information such as current stock product, sales, employees number, etc.

**Defining the objectives or specific characteristics of the application.**

The program will be able to keep inventory records in all its branches as well as being able to update its database in real time with all existing branches. The system will also keep a record of the company's workers who are active on a daily basis in order to keep track of any faults or problems that may arise. And to finalize the system, it will make recommendations when there are few products in a branch or when the sales of an item are higher than usual.

So in short the program achieves peace of mind for the investors, employees and customers by ensuring the access to data and information shared between locations referent to; inventory, sales, demand of the market, revenue, worker’s schedules, etc.

**Defining the scope of the application.**

The program will not speed up productivity in human resources but will speed up the time it will take for human resources to carry out their basic operations in an easy and precise way as well as the real-time supervision of managers in all their branches.

Furthermore, any inconvenience presented by the population, such as the low demand for miscellaneous products, will not be handled by this system. This will only be in charge of optimizing the trade and exchange of goods between warehouses.

The system does not promise to increase sales of the products that the company manages. only will provide data that its use will depend on the company decision.

**OBJECTIVES OF THE PRODUCT.**

The name of this program is "ACME Sales"

ACME Sales: It is a program that will provide information on the different branches that the company has. That will allow the employee to manage the inventories of the other branches.

The program must meet the following specifications:

* A database that has all inventories in order and also what is in stock for each inventory that is available to the company and its locations.
* A system that has a control of the days and the time in which some supplier delivers a product. This is to have a control of which supplier delivered in time and form any product needed for the company. including transport of product, schedules of workers, and revenue from sales to extract info of successful products.
* To be able to modify, delete, add products to inventory.
* View the earnings of the day of the branch.
* Let’s see global earnings.