**Objectives of the Study**

Generally, the study aims to develop a system that will help the client to monitor the sales and products. Specifically it aims to:

1. Develop an Automated Inventory System with POS that will monitor the sales regularly.
2. Develop a system that can help to maintain the inventory of products correctly.
3. Develop a system that will notify the client to track the products that are being delivered to their shop.

**Statement of the Problem**

Some companies only use manual process in their business that can cause a loss or error in recording data and reports. It is hard for clients to use a manual process, especially in recording of inventory which may lead to shortage and overstocking of products. For example, if the employees are dealing with the work manually meaning they only use pen and paper in recording all the data that cause of unorganized information.

Clients are not sure either if the quantities of products are recorded correctly, any missing items, or they exceed the specific quota. There is a possibility for the record to be misplaced or blend with other business unrelated records. For example, we all know that people have this hobby on putting things being held anywhere if it is available so the employees can possibly do the same by misplacing the recording book and forget about it in the end.

Client always forgot to order some sold products immediately to their suppliers. Client had difficulties on what to order to their suppliers because of manual tracking. Example is when a product/s is out of stock the employees will take note of it but there is a possibility of it being forgotten unless the system has a notification feature that will remind them of the product/s out of stock. Manual tracking is also difficult the clients cannot locate where the order is if it is arrived or still on the way.

1. How to develop a Computerized Inventory System with POS that can monitor their sales thoroughly?
2. How the proposed system will help in maintaining the products of the inventory?
3. How the proposed system will notify the client to track the products that are being delivered to their shop?

**Iterative Waterfall Model**

The researchers used the Iterative Waterfall Approach as the method in the development process; it is an approach referring to a linear sequence of stages to develop a system from planning, to analyzing, to designing, and to implementation. This approach essentially refers to a circular sequence of stages to develop a system from planning to analysis to design to implementation.

**Requirements Definition**

This is the first phase of Waterfall Approach. This phase is one of the important parts because it provides the information necessary to know the process of the system to be built.

The requirement phase is the phase where also the planning conducted. After planning, the researchers will conduct an interview, survey or any other way with a client to gather information.

In this phase, the researchers provide and analyze the questions and fully understand the problems. For the Inventory System, the researchers conducted an interview with the secretary of the company. Based on the company's problem of managing inventory they have difficulty using manual process.

After the researchers conducted an interview with a client, all the data and information will be used to produce a system request and an interview report. It helps the researchers to have an idea to develop a system.