**CHAPTER 1**

1. **The Problem and its Background**

**Introduction**

The important of studying Inventory System is to keep track of the flow of goods, record for incoming and outgoing items, and to check the Sales Reports. Inventory systems are designed to tell you how many the sales every day and every month, to track your inventory items and which products produce the greatest profit. All business relies on inventory system play this vital role by accounting for all goods or products. They also show where a particular item is in the flow of sales whether it is in a warehouse or on a store shelf. The main purpose of inventory system is simple to enable a business take stock and appropriately manage their goods and products. Inventory System is a process done by a business that sells product in order to help them analyze how the business is performing.

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* 1. **Background of the study**

Inventory is basically the total amount of goods and materials held in stock by a factory, store and other business. An inventory system is a process whereby a business keeps track of the goods and material it has available. In its simplest sense it can be done manually by a count at the end of each day. In this way it is possible to keep a record of the goods coming in to the business and goods being sold.

Since manual inventory consumes a lot of time and is prone to errors, it would be helpful to build a system that will computerize the transactions from acquisition of the product description to updating the inventory database. The computerized inventory system will improve employees’ work efficiency by computerizing routinely and time consuming tasks such as the time spent in taking down product information. As a result, the time can be used in more productive activities. The accuracy of the current system willimprove, since the computerized inventory system would eliminate the need of constantly encoding lengthy details of products by having an inventory database.

Monitoring encompasses the tracking of individual processes, so that information on their state can easily seen, and statistics on the performance of one or more process be provided.

As a student, we want to make everything is easy for us. So we create a system for the client to make their transaction fast and smooth. Our program will help staff and the owner to check their inventory and sales. They just need a computer.

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**1.2 Statement of the problem**

We observe that the staff and the owner of AAO Marketing have waste a lot of time spending their transaction through using the old system that is handwritten. The impact of this to their costumer and clients is they will take so much time to finish the transaction within a day. As a future I.T. programmer, we as a student build Point of Sales (POS) system to easily record and check the transactions, stock and revenues.

**1.2.1 General Problem**

Because of using, an old system through manual process (written all the records), the transaction and operation of the business is being affected.

**1.2.2 Specific Problem**

* Manually checking of inventory
* Monitoring net revenue
* Manual input of order
* Monitoring sales

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* 1. **Objective of the study**
* Create an Inventory System where we can help the clients to make easier, faster the operation and transaction of the business.

**1.3.1 General Objectives**

* Help the staff and the owner of the business to have a fastest order taking, monitoring of the inventory items and checking the sales report.

**1.3.2 Specific Objectives**

* Creating an application that automate the manual inventory
* Generating using the inventory application
* Computerized product input
* Automatically monitoring sales

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* 1. **Significance of study**
* With this system, the staff and the owner of the business easily monitor the inventory and sales.
* It will help operation flow of the business to be more effective and more reliable in terms of monitoring sales and inventory.
* POS system is a system for the employees and owner where the manual transactions are computerized. This system will budget their time and to less the work.
  1. **Scope and Delimitation of the Study**

**Scope:**

* Admin privileged
* Item inventory Details
* Record Activity

**Limitation:**

* Limited support
* Core function is for specific items only
* Efficient inventory control methods can reduce but cannot eliminate business list

**CHAPTER 2**

**Methodology of the studies**

System Development Life Cycle (SDLC)

The system development life cycle was used to achieve the study. This method gives a structure to the madness of getting from the beginning to the end of your project without forgetting a step. It is a type of project plan, and numbers of different (SDLC) methodologies are used today to guide your way through projects.

Spiral Model Illustration of System Development Life Cycle (SDLC)

IMPLEMENTATION

DESIGN

DATA GATHERING

ENHANCEMENT

TESTING

**CHAPTER 3**

**DATA GATHERING**

**3.1** **Data Gathering Procedures**

First, the researchers find a company to be our client and give them our referral letter from our school and professor.

After they agree to our proposal, we prepared some questions to be asked then conducted an interview to the owner of the company.

**3.2 Data Gathering Instruments**

The study used interview as its main instrument in gathering data. It also used records review to support the data and information gathered from the interviewer. This was also supplemented by on-site observations and questionnaires.

**Interview**

The researchers made use of this instrument because we want to know their suggestion for the system that we will provide for them.

**Questionnaires**

The answer on the questionnaires helps us to create this project because we know what the clients want based on the questionnaires they answered.

**CHAPTER 4**

**The Existing System**

**4.1 Company Background**

The company name is AAO Battery Shop at Zabarte Road Gasoline Station. Brgy 187, Caloocan City only 3 (three) branch and the owner/manager is Ms. Anecita Orillo. The nature of business diner and the company is sole ...proprietorship business only.

**4.2 Description of the System**

The existing system of the company is old manual POS, manual ordering and inventory with just all handwritten and listed. Records are store in a paper.

**4.3 Data Flow Diagram**

0 AAO Battery Shop

1.0 Logging In

1.1 Staff inputting products for ordering form

2.0 Printing of inputted data

**Diagram 1**

Admin Staff

Log In

Order taking and Printing Result

Managing inventory Monitoring Sales and Printing Result

Log Out

**Diagram 2**

STAFF

LOGIN

TAKING THE ORDERS OF COSTUMERS

PROCESS

TRANSACTION

PINT RECEIPT

**Diagram 3**

ADMIN

PRINT SALES REPORT

LOGIN

SPECIFIC DAY WEEK MONTH YEAR ADMIN/MANAGER WANT

SALES REPORT

MANAGING INVENTORY AND MONITORING SALES

**4.4 Data Dictionary**

*#Confidential*

**CHAPTER 5**

**The Proposed System**

AAO Battery Shop

**5.1 System Overview**

The system provides an effective and efficient POS and Inventory System in which it can organize things easily. This computerized POS and Inventory System is managed by one administrator that controls the whole system and can facilitate different task like inputting different data into inventory where it can be used in POS and can be printed the sales report and the receipt and real time.

With the use of the system, the client can now be easily managed everything as it already included in the system the recording, compiling all the records and printing report forms. On the other hand, researching of a particular report will not be a problem anymore with the help of a search bar which it can be search by date week month year and referred by addition, records from different transaction can be sorted by date

The manual based transaction and the used of partially computerized system has been upgraded into a fully computerized system. The data being inputted in the computerized forms is done by the system itself where every data is being stored in a database.

**5.2 Process Specification**

**5.2.1 Use Case Diagram**

Administrator

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