**STI College Surigao**

**VIOLET VAPE SALES AND INVENTORY SYSTEM**

A project proposal presented to

In partial fulfillment of the requirement for ICT

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**CHAPTER 1**

**INTRODUCTION**

Now in our society and all over the world, technology is the most important advancement. These changes in effect make man’s life become easier and more efficient. The relationship between the humans and computers is constantly changing that the use of computers contributes to the way man learns and communicates.

Violet vape has a currently manual process of taking the orders of their customers thus, making it more complex especially that they don’t follow an organized pattern of the process in taking the orders, But because they don’t follow an organized pattern of processing the orders.

This computerized sales and inventory system lessens the tedium of the transactions and reduces human errors. Also, the system provides efficiently and reliability information.

**Background of the Problem**

The problem stated in the research will serve as the basis of the study, which is the primary purpose as to why the study is conducted. The problem will also be our guide and goal throughout the study. As researchers, it is our mission to accomplish and solve the stated problem as one of our primary goal in the study and successfully apply the accomplished project to our target population.

The Violet vape shop currently utilizes manual in operation in processing their sales and inventory. For this reason the researchers chose this area to be the subject of the researched study.

This computerized sales and inventory system lessens the tedium of the transactions and reduces human errors. Also, the system provides efficiently and reliability information.

**Theoretical Framework**

The proposed system runs through the use of the C# together with the Microsoft Access Database. The system is design and developed by the researchers using C# for it is an appropriate way and easy programming language to learn. Data and other important files are saved in the Microsoft Access Database and it is safety and organized so that the user will not take time to make effort in searching and updating the products data. The researchers have theory as the foundation of the proposed system.

Theory 1 (C#)

C# is a great high level language. The purpose of C# is to make programmers' lives easier. High level languages let programmers to put more time on solving the main problem rather than dealing with things like portability, serialization, etc. It can be used for web development, desktop development and windows mobile development.

Theory 2 (Microsoft Access Database)

The researchers also applied MS Access Database which serves as a storage of data and protection from all unauthorized access of the people. Perform saving files and database by using MS Access Database.

**Conceptual Framework**

**Research Hypothesis/Hypotheses**

The researchers used a computerized Sales and inventory for Violet Vape where it can easily manage the transaction as well as the total profit of the products thus, making the process more feasible and convenient.

**Alternative hypothesis.**

If the creation and construction of an organized storing of data inside the system will be successful, then the project will satisfy the needs of the targeted population of the study.

**Null Hypothesis**

If the creation and construction of an organized storing of data inside the system would not be successful, then the project will not satisfy the needs of the targeted population of the study.

**Statement of the problem**

**General Problem**

How to design and develop computerized sales and inventory system for Violet Vape shop that would lessen the time and effort of transactions, accurate and efficient?

**Specific Problems**

Specially, the study aims to answer the following problems:

* How to develop modules that would manages major transactions such as sales, ordering, received, issued and returning of products?
* How to develop and integrate a computerized inventory system that would monitor for the in and out transaction of inventory products?
* How to automatically generate monthly report after transactions?
* How to develop a module that would enable the manager to manage and monitor all the current and previous operations?
* How to develop a module that would automatically computes for the available products contained in the inventory?

**Objectives**

To make a desktop application for our client so they would be able to observe the sales and inventory to their shop. With the use of our propose system the whole process will be recorded.

**General Objectives**

To create a desktop application that would help the owner to manage the shop because sometimes human error is one of the problems on the shop.

**Specific Objectives**

It will be less hassle for the owner to manage their product because

the system can manage their entire shop.

**Significance of the Study**

The significance of this study is to make the process of Violet Vape faster, easier, secure and efficient to help them improve their transactions. The proposal is to help the following beneficiaries to solve certain problems, the following:

* Customers - To avoid irritability of the customers as well as to lessen the time range during orders for their transaction and paying process.
* Cashier – It helps the cashier to easily facilitate all the orders such as inputting quantities and selecting products during the transaction.
* Manager – It helps the manager for the monitoring of all the transaction done by the cashier as well as to manage all the income from sales. It also allows the manager to maintain the proposed system.

**Scope and Limitation/Delimitations of the Study**

**Scope**

Scope is the things that your system can handle. Our system can manage their entire product in there shop.

**Limitations**

Our system cannot handle these followings:

* Online
* Print Receipt
* Billing in Credit card
* Can’t pay bills through credit cards.
* Can’t make an online transaction – only offline transaction is allowed by the system.
* The system can only be used in Violet Vape shop establishment.

**Definition of Terms**

The purpose of this study is to design, develop and implement Transaction processing system. Since there are still establishments like Violet Vape shop who still use manual process, through this study it can make the lives working in the Violet Vape shop an easier and less hassle. The study focused on the effectiveness of the Transaction processing system in implementing with the Violet Vape shop. Moreover, the results of the study will be beneficial to the following:

Violet Vape shop – The results of the study will be beneficial to the Violet Vape shop. It will make their business transaction efficient and easier way.

Customers – The result of the study will help the customers. They don’t have to worry about the process takes too long.

Future Researcher – The findings of the study will serve as a reference material and a guide for a future researcher who wish to conduct the same experimental study or any study related in developing Sales and Inventory System.

Project Rationale­ – Violet Vape Shop have the most complex inventory process since it involves numerous variation of products. It is important that Violet Vape Shop should have sales and inventory in order to come up with an accurate data regarding the sales and inventory details. We have chosen the Violet Vape Shop here in Surigao City to be subject of this study. The system will help the management in improving the transaction processes, from the manual and tedious sales and inventory process to an advanced, error-free and innovative transaction processes.

The study aims to help the Violet Vape Shop so to the benefit the following:

* **Costumers**. This will help them to let their transactions in Violet Vape Shop become faster and easier
* **Company**. This enables the firm to render faster and effective services to the costumers that would make it more competitive and productive.
* **Owner**. It somehow lightens her work such as easy generation and monthly reports. Also, some of her transactions are minimized.
* **Cashier**. This will make her wisely compute the products for any transaction
* **Developers**. This measures our accumulated knowledge. This will also add to our knowledge in the creation of a project proposal and help us for the completion of the subject
* **Future Developers**. This will be our reference in our proposal. This will guide us in creating efficient and effective documentation.