



**ESPE**  
UNIVERSIDAD DE LAS FUERZAS ARMADAS  
INNOVACIÓN PARA LA EXCELENCIA

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**NRC:** 2858

**Date of Delivery:** 09/12/2020

**Group Name:** CrSystem

### **Workshop**

#### **Problem**

Billing control **system** for PYMES .

We need a billing **system** with which we can help **people** who are **owners** of small and medium-sized **companies** can have control of their **inventory** and **information** on their respective **products**. We also need to keep a record of earnings and expenses by issuing an invoice depending on the **case**, in each purchase that is made within and Outside the **company**.

#### **Overview**

As for the invoicing **systems** in SMEs, it represents the savings in **resources** much more feasible since leaving the invoices online avoids the use of **paper**, ink and **time**. Saving time is important in SMEs, so that staff save **time** in a process, this will allow the **company** to be more productive. A billing system also allows generating an **endorsement** when the **client** needs to consult **information** about her invoice. Cost reduction and staff reduction as no **person** would be needed to carry **inventory** or billing.

#### **Background**

The basis of any commercial **enterprise** is the purchase and sale of goods or **services**; hence the importance of **inventory** management by it.

To begin with, we had to choose a **problem** that came to mind was the lack of billing **systems** in small and medium-sized **companies**, SMEs, since these SMEs are **enterprises** of several **people** or **companies** have constant growth and **application**, which is why which we came up with the **idea** of implementing a billing **system** which allows us to issue invoices and manage **inventory** control in addition to showing us **customer** information or allowing us to bill without data.

Due to the **factors** that define SMEs such as the purchase and sale of **products** and **services** in addition to being **subject** to the free **competition** law which gives us the **power** to put any **business** in addition to thinking about our **economic** freedom which we It allows us to see that the SMEs that **progress** are the ones that have better and operate **systems** than the others, since if **modern** systems are not available, the **company** begins to decline and therefore may disappear

Another reason why this idea was chosen is due to the current **situation** of **quarantine**, since in the proposed billing **system** the invoices would be **electronic** and easily centralized in the **server** that is available for the **activity**, thus creating a decrease in the **paper** used to issue Invoices, the reason why SMEs were chosen is because they, being in permanent change, would not be enough with a single **interface** but with a **number** of variations as necessary for small and medium-sized **companies**.

For the creation of this billing and **inventory** control **system**, various programming **paradigms** will be used, as well as an exhaustive study of the **market** to have a good **foundation** of **information** to offer the result to an SME that is under the **parameters** before detailed and used for its creation.

The automation of administrative **processes** is the **application** of a group of **software** and **hardware** tools that make up an **information** **system** seeking to increase its **efficiency**. **Information** systems must know the broader **dimensions** of the **administration** together with its **power** to provide **solutions** to the challenges and **problems** in the **business** environment.