



# System Inventory, Invoicing, and Bank conciliation Basic Accounting for Quipus Net

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**Abstract.** Currently, much software is developed with advanced tools, this has allowed us to be very at the forefront of it, but not studied what their impacts on everyday life need to use them at different points of trade, administration or manufacturing; Many of these tools are designed to work in web environments and very little in desktop environments, which is why the main goal of this project was to create an application that meets the standards of current trade and in turn could adapt to any company but looking from the perspective of the user, because they use advanced tools but in many cases never fully exploits; interest AARON ERP system is to exploit the resources and have less capacity as through a desktop environment with a client - server architecture.

## **Keywords**

ERP System, Client - Server, Web environments, desktop environment.

## **1. Introduction**

Quipus Net, keeps track of their inventory, billing, accounting and bank reconciliation manually in Excel spreadsheets, for this present work shows how to take it automatically, with the difference that the application meets the company form of an ERP (Enterprise resource Planning) Systems ERP using a desktop environment.

With this approach we make the enterprise or SME can set working parameters in its products, customers, payments etc. AARON implementing a management company and facilitates rapid adaptation thereof, with a high yield

without relying on computer resources facilitating advanced obtain results quickly and timely.

## 2. Materials y Méthods

### 2.1. Metodology.

La metodología usada para el desarrollo de la aplicación es la de Cascada, como podemos observar en la gráfica 1, con esta metodología podemos obtener cada parte del prototipo como modelo terminado, esto obliga a tener bien definidas las reglas del juego para realizar la implementación.



Picture 1.- Source own

### 2.2. Feasibility.

The many system specifications requested for necessitates carrying the cascade model, allowing an area start, finish and continue with the next, so all areas are practical to implement step.

### 2.3. Requierements.

Within the construction or development of the system, there are requirements for each process, these requirements consist of two parts, a logical and a physical, the first covers the process flow analysis supported by standards such as Unified Modeling Language (UML),

In the construction of the system is necessary to take into account several features of the same, as connectivity SYSTEM - PC - SERVER (understood as the way in which data will flow between each of these elements), a necessary means for building application as such, and an information manager (database) that suits the needs of the system.

Denote two elements are very important hardware such as PC's (computer equipment) will be advisable to have the equipment to help prevent

damage from electrical faults such as UPS, within the computer equipment found two groups : servers and workstations. The database server responsible for storing and managing information, the project will use a single computer which will work as a database server. The server specifications are: Processor Dual Core 3.0 GHz or higher, 2048 MB RAM or higher, 500 GB hard drive or higher, 10/100/1000 Network Card, Monitor, Keyboard, Mouse, DVD - RW, and workstations on which to install the application who will keep the link or connection to the server. The technical characteristics of the workstations are: Pentium IV 2.4 MHz or higher, 1024 MB RAM or higher, 10 GB hard drive or higher network card 10/100 or better, Monitor, Keyboard, Mouse.

#### **2.4. Design**

One important thing is that the design is consistent with the parameters of the business, such as Name, Tax ID, address, number of decimal places, if it generates cash flow, if you print invoices automatically and simultaneously define default values when operating in a

transaction as for example the default client. By managing this inventory allows entry and exit of goods from the company, generate purchase orders, etc.. The turnover recorded outflows of products through the generation of invoices, debit notes, credit notes for sales generated, creating the accounting entries already defined chart of accounts, accounting records and printing balance sheet basic form seen in conjunction with the entry of banks, checks and report them to know the status of all bank transactions of the company.

#### **2.5. Programming**

As the interaction or connectivity SYSTEM - SERVER the main feature, in addition to seeking a tool to establish business policies, which in turn make the link with the database, was chosen as a development tool connecting Visual BASIC 6.0 ODBC and (back end) or database, is a critical part of any system, so it has sought an information manager or database engine that suits the needs of both the company and the system to develop. Thus Mysql found in one

database engine that incorporates all the above needs.

## 2.6. Test

Testing was performed on a server and 4 workstations, server features were as follows; Intel Dual Core 2.4 Ghz, 320 GB HDD, 2 GB DDRII Memory, VGA Monitor, main characteristics, while stations were working; 2 PCs with Intel Celeron Processor. 3.0 GHZ, 320 GB hard drive, 1GB memory, and 2 PCs with Intel Pentium IV 3.0 GHZ, 1GB Memory DDRI, 160 GB HDD, VGA monitor, all stations with network card 10/100.

## 2.7. End Product

This remains an executable file extension (. Exe) named AARON turn to their libraries to allow run on the computer

## 3. Results

These were very promising since the power response of the MySQL database, provides a charging facility information upon request and connection from the application using ODBC flow makes it extremely fast, since the absence of an

intermediary such as the tools that are currently available, also called framework, this in practice means that the response time in seconds is relatively higher than proposed in this paper, thus empowering AARON, as a tool Was that saves computer resources and financial resources as saying that companies implement.

## Conclusions

The system easily adapts to any business SMEs such as Drugstores, Commissaries, Paint Stores, warehouses white goods, and also stores selling computer peripherals

Generating invoices from referral guide allows us to quickly generate outputs that perform inventory without the invoice if the customer requests one bill at the end of the month overall. The project made, has the characteristics of an ERP. AARON is conceived from a holistic approach, with the centralization and integrity of the data handled by the company, and no longer distributed and isolated, but now can be accessed from any module integrated, so that this information is accurate shared and real.

With the implementation of the new system is able to fulfill the expectations, requirements and demands by the Company QUIPUS NET which is essential for system development, the benefit of the developer and the best operation in this organism, so that this program meets its prospects.

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### **About the Authors...**

**Author-Fabián JIMENEZ.** My life as a college student, I can not say it was excellent, but I learned many things in life that I have served as a programmer today, excellent teachers academic excellence, rigorous and sometimes caused change course, my economy prevented very little to explore quickly even have my own computer



exigiéndome search where develop or do my homework.

The academic rigor demanded increasingly seek me how to improve my preparation exigiéndome be in university labs all night in those days, to be on par with the rest of my peers and to be among the best but not including learned.