

UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE



Theme:

Specification of Requirements according to the IEEE 830 standard
Clothing store “ Bethsabé Boutique”.

G4 Software Juniors.

Members:

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Date: 11/05/2023.

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1. INTRODUCTION

***Details:**

The clothing store " Bethsabé Boutique" is a family business that is located in Quito, Ecuador.

***Problem:**

After the interview and based on the answers, it can be said that the business has a problem in the financial administration, merchandise and sales control and statistical sales reports.

1.1. Purpose

- To optimize the human and technological resources of the clothing store .
- Develop a customer-friendly tool, knowing that customers and store staff have basic notions of technological tools.
- That the system manages to cover all the information and that the errors are minimal

1.2. Scope

Due to our knowledge in development through code, we can make use of multiple tools provided by the structure, syntax and libraries of the chosen programming language to develop the final program (Java), to give examples, we will use data input and output, storage, editing and deletion of data, and printing of data outside the console (Json/CSV).

1.3. Definitions, Acronyms, and Abbreviations

In the program, the common terms used to define each class are:

- Add
- Inventory
- Report
- Manager

We avoid the use of contractions to avoid that when reading the code it is unintelligible to us

1.4 References

The following documents have been consulted for the preparation of the document:

- IEEE Recommended Practice for Software Requirements Specification.
ANSI/IEEE std. 830, 1998

1.5 Document Overview

Through the interview, the client made us aware of the administrative and inventory deficiencies in his general management method of his clothing store, for which he asked us to implement an application that allows him to better manage multiple areas of the store. Through the interpreted requirements of the interview, we can know the scope that the project must have and the functionality that it must have.

2. OVERALL DESCRIPTION

2.1. Product Perspective

It is recommended that the store staff and the manager have basic computer skills and are familiar with the clothing sales process, that their reading be understandable but not legible, this with the aim of omitting multiple data validations for a moment.

2.2 Product Functions

The main functions of our program are:

Through a menu, the data entry will be managed by console and details of the entered product, edition of the previously registered product, deletion of a registered product, display through CSV or Json the data entered in advance.

2.2. User Characteristics

It is recommended that the store staff and the manager have basic computer skills and are familiar with the process of selling clothes, that their reading is understandable but not legible.

Constraint

The restrictions that will be given (for now) are:

- Once the merchandise is entered, it cannot be added again because a duplicate would be generated
- The entry record will be given according to the order of arrival and the date of entry cannot be modified.
- The program will be developed in the Java language.

2.3. Assumptions and Dependencies

The correct wording of the requirements given by the administrator is assumed. It is assumed that at least the business will have a computer with Windows 10 Operating System or higher and that knows how to open the cmd termination for the conversion, on the contrary, the user should be guided to the use of NetBeans.

3. SPECIFIC REQUIREMENTS

3.1. External Interfaces

User Interface:

The interface will be easy to use, have a friendly and intuitive appearance, it have an menus, it must separate options by categories, with a pleasant interface and with visible lettering. It will use the colors of the store.

Hardware interface:

The interface will focus solely on computers.

Software interface:

The software interface will be provided by the operating system used by the computers in the store, in this case Windows 7 64bits(or later), meaning that the application will be used within the windowing environment provided by this operating system.

3.2. Functional Requirements

Product Registration: The system will allow you to register dresses (by specific object).

Product Elimination: The system will allow you to eliminate a product by searching for its name.

Product Edition: The system will allow you to edit the details of the dress. The system will allow manual registration of customers to the database.

Product printing: Through a menu option it is possible to obtain a document external to the console in which the data entered by the console is located.

3.3. Performance Requirements

The system must allow a minimum of 1 registration per second for both products and customers, meaning a total of at least 2 registrations per second.

3.4. Design Constraints

The system must run under the following minimum requirements:

SO: Windows 10, 8, 7

Procesador: Dual core 1Ghz+

Memoria: 1 GB de RAM

Gráficos: capable GPU with 256 MB VRAM

Almacenamiento: 3 Gb como máximo

3.5. Attributes (e.g., Usability, Reliability, Maintainability)

Usability: The system must present a friendly, structured, | and intuitive interface for all personnel.

Reliability: The system must not register sales or delete sales incorrectly.

3.6. Other Requirements

Possible functional requirements to be implemented in the future could be:

- * Database with contacts for sales by call
- * Automatic system of application of discounts for merchandise out of season
- * Interface customization with inclusion of social networks in strategic parts.
- * Management of evaluations and customer opinions.

VERY ADVANCED

- * System for online payments through platforms with Virtual Banking.
- * Merchandise suggestion according to latest searches.
- * Guarantee application system with their respective legal support.