Specifying software requirements

Project: Inventory Hardware Store
Review

Document sheet

Date	Review	Author	Verified dep. Quality.
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Document validated by the partys on date:

By the customer	By the supplying company
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Content

1 Introduction

Throughout the resolution of this project we want to contribute to the need of the user in the development of a program that will help them to acknowledge and at the same time get control over its existing products within its hardware store.

1.1 Purpose

This document is made in order to define the functional and non-functional requirements existing throughout the development of the program that we are going to implement, in order to help users who have a business with many products and so that they can manage an order in their products with their different specifications, in this case we refer to the existing inventory of a hardware store.

1.2 Reach

This project is mainly aimed at all users who have a hardware store, will help with the order and knowledge of all their products, so they will also have the knowledge if the product needed is kept in stock or if the product is already finished, know if more tools or material is needed, in addition to each tool or material having its name , id, price and category.

1.3 Staff involved

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Professional category	Software engineering student
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1.4 Definitions, acronyms and abbreviations

1.5   References

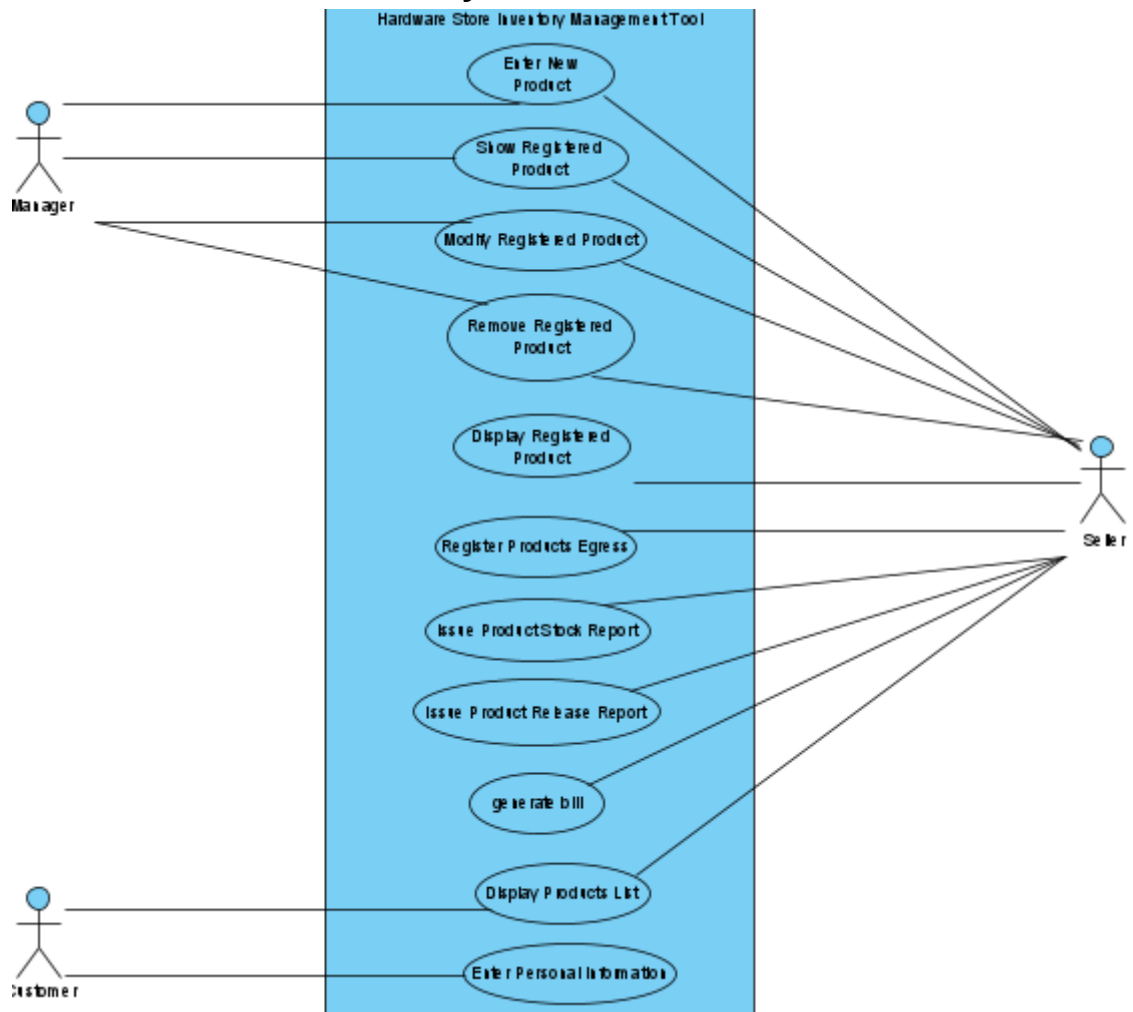| Reference	Title	Route	Date	Author
IEEE	Standar IEEE 830	1998		

1.6   Summary

The objective of this project is the development of a system, in an Integrated Development Environment, that allows inventory control. The application constitutes a tool that allows a timely and efficient management of information, being possible to make decisions, regarding their products.

2 Overview

2.1   Product perspective

This program is clearly created by students developers of the engineering career in software designed in the ease and comfort that can be generated for ventures that include various products, in this case we emphasize the inventory of a hardware store, in order to help the best service, order, knowledge and control of existing products.

2.2 Product functionality

Hardware Store Inventory Management Tool

Manager

Enter New Product

Show Registered Product

Modify Registered Product

Remove Registered Product

Display Registered Product

Register Products Egress

Issue Product Stock Report

Issue Product Release Report

generate bill

Display Products List

Enter Personal Information

Customer

Seller

2.3   User features

Type of user	Manager
Training	Basic
Skills	None
Activities	Enter new product, show registered product, modify registered product

Type of user	Salesman
Training	Basic
Skills	None
Activities	Register products egress, display registered product, issue product stock report, issue product release report, display products list

2.4   Restrictions

• Operating system to run: any operating system that supports the program.
• Language: JAVA
• Art programs: visual paradigm community, case diagram and class diagrams.

2.5   Assumptions and dependencies

• As the system is implemented the requirements may change as they are dynamic processes, therefore we must perform a correct analysis and design.

2.6   Predictable system evolution

• As the project progresses it will be affected in changes regarding the level being implemented, the implementation of interface is the most noticeable change within our project throughout its progress.

3 Specific requirements

Requirement code	SR01
Name	Enter New Product
Description	Once the manager has entered the system, he will be able to add a new product to the inventory
Imput	Complete information of the new product to be registered including name, brand, quantity, price and id
Exit	Message confirming the creation of the new product
Priority	High

Requirement code	SR02
Name	Show Registered Product
Description	After creating or modifying a product, a list with registered products will be displayed
Imput	Selection of the registered product you want to see
Exit	A full description of the selected registered product
Priority	Medium

Requirement code	SR03
Name	Modify Registered product
Description	In the event that a product is entered with any error in your data, you can modify that error and complete it's correct information
Imput	Correct information about the data of a product stored with error in your data.

Exit	"The product has been successfully modified"
Priority	Medium

Requirement code	SR04
Name	Remove Registered Product
Description	In the event that a product is removed from the physical inventory of the store, you can remove said product from the system
Imput	Selection of the product you want to delete
Exit	A message confirming the correct removal of the selected product
Priority	Medium

Requirement code	SR05
Name	Display Registered Product
Description	The products entered with each of your data will be displayed on the screen
Imput	The product you want to view
Exit	The desired product will be displayed
Priority	High

Requirement code	SR06
Name	Register Product Egress
Description	When the seller makes the sale of a product, he will register it in the system
Imput	Type and quantity of the selled product
Exit	Message confirming egress registration
Priority	High

Requirement code	SR07
Name	Issue Product Stock Report
Description	The system displays a list with all products, for each deploys: name of the product, category, quantity income and/or egress, total available.
Imput	The option to display the stock of the hardware store.
Exit	The established stock of the hardware store will be displayed
Priority	High

Requirement code	SR08
Name	Issue Product Release Report
Description	The seller will issue a record of all products sold
Imput	Selection of products sold
Exit	A general report of quantity and amount of products sold
Priority	High

Requirement code	SR09
Name	Enter Personal Information
Description	Basic customer information will be recorded
Imput	Customer personal data
Exit	"Customer data has been recorded"
Priority	Medium

Requirement code	SR10
Name	Display Product List
Description	The customer will be shown the list of products they request.
Imput	Products requested by the customer
Exit	List of products requested
Priority	High

3.1   Common interface requirements

Detailed description of all software system inputs and outputs.

3.1.1 User interfaces

Describe the user interface requirements for the product. This can be in the form of text descriptions or interface screens. For example, the customer may have specified the style and colors of the product. Accurately describe how the product will appear to your intended user.

3.1.2 Hardware interfaces

Specify the logical characteristics for each interface between the product and the system hardware components. Configuration features will be included.

3.1.3 Software interfaces

Indicate whether to integrate the product with other software products.
For each software product, the following must be specified:
▪   *Product description software used*
▪   *Purpose of the interface*
▪   *Interface definition: in and format*

3.1.4 Communication interfaces

Describe the requirements of the communication interface if there are communications with other systems and what the communication protocols are.

3.1.5 Functional requirement 1

3.1.6 Functional requirement 2

3.1.7 Functional requirement 3

3.1.8 Functional requirement n

3.2 Non-functional requirements

3.2.1 Performance requirements

3.2.2 Security

3.2.3 Reliability

3.2.4 Availability

The system requires to be available 24 hours a day 7 days a week, so the system can have the best performance it can have,also it needs to be available any hour thanks to the restocking of the hardware products, and therefore it has to be active on the office hours.

3.2.5 Maintainability

The maintenance of the system has to be done every six months, however the first it will be done by us,after that we will teach the owner so he can do it,also if the owner wants to change to a new OS or pc we will be helping them by installing the system again in that new environment.

3.2.6 Portability

- It can be opened on any operating system.
- It can be compiled in console, for testing.
- Its portability helps to be tested on any operating system.

3.3 Other requirements

Legal requirements: the system must be purchased directly to the developers and cannot be sold again .

4 Apéndices

They may contain all kinds of information relevant to the SRS but are not itself part of the SRS.