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**Specifying software requirements**

**Project:**

Review

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**Instructions for using this format**

*This format is a standard template for software requirements documents.*

*It is based and compliant with the IEEE Std 830-1998 standard.*

*Sections that are not considered applicable to the described system may be justifiedly indicated as non-applicable (NA).*

*Notes:*

*Blue texts are indications that must be deleted and, where appropriate, replaced by the contents described in each section.*

*Texts in square brackets of type "" allow direct inclusion of text with the appropriate color and style to the section, by clicking on them with the mouse pointer.*

*The titles and subtitles in each section are defined as MS Word styles, so that their consecutive numbering is automatically generated according to "Title1, Title2, and Title3" styles.*

*Indentation of texts within each section is generated automatically when you press Enter at the end of the title line. (Indented Normal Styles1, Indented Normal 2, and Indented Normal 3).*

*The document index is a table of contents that MS Word updates based on document titles.*

*Once it is finished writing, Word should be instructed to update all its content to reflect the final content.*

**Document sheet**

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| **Date** | **Review** | **Author** | **Verified dep. Quality.** |
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# *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.

## 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.

## 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.

## Staff involved

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## Definitions, acronyms and abbreviations

## References

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| --- | --- | --- | --- | --- |
| **Reference** | **Title** | **Route** | **Date** | **Author** |
| IEEE | Standar IEEE 830 | 1998 |  |  |

## Summary

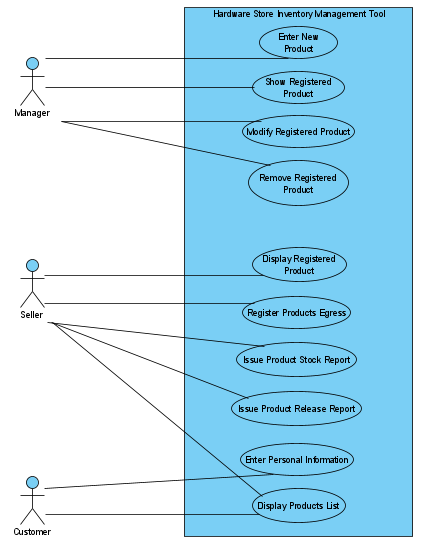
The objective of this project is the development of a system, in an Integrated Development Environment, that allows inventory control. The application constitutes a tool that allows a timely and efficient management of information, being possible to make decisions, regarding their products.

# Overview

## 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.

## Product functionality



## 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 |

## Restrictions

• Operating system to run: any operating system that supports the program.

• Language: JAVA

• Art programs: visual paradigm community, case diagram and class diagrams.

## 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.

## 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.

# 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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

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| --- | --- |
| **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 |

## Common interface requirements

*Detailed description of all software system inputs and outputs.*

### 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.*

### Hardware interfaces

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

### 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*

### Communication interfaces

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

## Functional requirements

*Definition of fundamental actions that the software must take when receiving information, processing it, and producing results.*

*These include:*

* *Checking the validity of the entries*
* *Exact sequence of operations*
* *Response to abnormal situations (overflows, communications, error recovery)*
* *Parameters*
* *Output generation*
* *Relationships between inputs and outputs (input and output sequences, formulas for information conversion)*
* *Specifying the logical requirements for the information to be stored in the database (type of information, required)*

*Functional requirements can be divided into sub-sections.*

### Functional requirement 1

### Functional requirement 2

### Functional requirement 3

### Functional requirement n

## Non-functional requirements

### Performance requirements

*Specifying the load-related requirements that the system is expected to support. For example, the number of terminals, the expected number of concurrently connected users, the number of transactions per second that the system will support, and so on.*

*All these requirements must be measurable. For example, stating "95% of transactions should be performed in less than 1 second", rather than "operators should not wait for the transaction to complete".*

### Security

*Specification of elements that will protect the software from malicious access, use and sabotage, as well as malicious or accidental modifications or destructions. Requirements can specify:*

* *Use of cryptographic techniques.*
* *Log files with activity logs.*
* *Asignación de determinadas funcionalidades a determinados módulos.*
* *Communication restrictions between certain modules.*
* *Critical information integrity checks.*

### Reliability

*Specifying the required reliability factors of the system. This is generally expressed as the time between permissible incidents, or the total permissible incidents.*

### 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.

### 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.

### Portability

*Specifying attributes that the software must present to facilitate its transfer to other platforms or environments. These may include:*

* *Percentage of server-dependent components.*
* *Percentage of server-dependent code.*
* *Use of a certain language for its portability.*
* *Use of a particular compiler or development platform.*
* *Use of a particular operating system.*

## Other requirements

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

# Apéndices

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