

Specification of Requirements according to the IEEE 830  
standard

IEEE Std. 830-1998

Huerto-Eco Market

PACSTORE

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# 1. Introduction

This Specification of Software Requirements for the point-of-sale management system of a Kiosk has been prepared taking into account the characteristics of the system currently used and the possibility of improving it, according to the experience of its users and the benefits obtained. Its structure is based on the IEEE *Recommended Practice for Software Requirements Specification ANSI/IEEE 830 1998 standard*.

## 1.1. Purpose

We need a system that organizes the registration of the existence of products of the business, indicating the expiration date, unit price and total price of sales; as well as include the record of these sales and the different prices of the products.

## 1.2. Scope of the System

- The software can be called "Huerto-Eco Market"
- This software will benefit the manager of the commercial premises to have a better method of managing their business.
- The objective of the project is to develop the software "Huerto-Eco Market" to control sales and inventory of the business.
- This program has to do the functions of storing or recording the sale of the product, and also perform functions such as deleting or adding a new product.
- These actions will be converted to JSON files.

## 1.3. Definitions, Acronyms and Abbreviations

Word	Definition
IEEE	The Institute of Electrical and Electronics Engineers (IEEE) is the largest and most prestigious technical-professional society in the world, dedicated to promoting and disseminating scientific advances in the areas of Electrical, Electronic, Energy, Computer and related Engineering.
Registration	A record is a set of fields that contain data that belongs to the same entity. It is automatically assigned a consecutive number (record number) that is sometimes used as an index, although it is normal and practical to assign each record a key field for searching.
Database (DB)	A database is a set of data that allows us to store large amounts of information in an organized way so that we can then find and use easily.

Inventory	It is a set of goods in stock intended to carry out an operation, whether purchase, rental, sale, use or transformation and thus ensure service to internal and external customers. It must appear, accountingly, within the asset as a current asset.
Unit price	It is the amount that the consumer pays for each product purchased or service, thus having the possibility of buying as many products as he wants whose price will be reflected in the invoice before where the total amount of the transaction is indicated.
User	A user is that individual who regularly uses a product, or service.
JSON	It is a data format that is based on text that respects JavaScript object syntax. It is a lightweight text format that allows data exchange.

#### 1.4. References

*Specification of Requirements according to the IEEE 830 standard.* (n/d). Ucm.es. Retrieved November 29, 2022, from <https://www.fdi.ucm.es/profesor/gmendez/docs/is0809/ieee830.pdf>

*Definition of online - Definicion.de.* (n/d). Definición.de. Retrieved November 29, 2022, from <https://definicion.de/online/>

#### 1.5. Document Overview

This document consists of three sections. This section is the introduction and provides an overview of the LRA. Section 2 gives an overview of the system, in order to know the main functions it must perform, the associated data and the factors, constraints, assumptions and dependencies that affect development, without going into excessive detail, Section 3 defines in detail the requirements that the system must satisfy.

## 2. Overview

### 2.1. Product Perspective

The final product will allow the collection of the products that are in the establishment. You can do this process and also how to know how many products were sold in the course of the day and how many are left

in stock. To enter the system, a menu will appear that will serve to keep the information orderly; This will cause the existing product to be misused and in turn control the money from the sale.

## 2.2. Product Features

- Display the Product Name.
- Show the Price of the product.
- Add the product to the list.
- Show Existing quantities of products.
- Query, modify, and display products in storage.

## 2.3. User Characteristics

Business Administrator: Person with the average level of having basic computer skills "Administrative level".

Employees: They do not need to have a high level of education, because the administrators will be in charge of explaining how the system works and it will not cost them too much work because they will only perform very few tasks in the "Employees Level" system.

Operational: Person with an average high school level, must have medium or advanced computer skills. "Operational Level".

## 2.4. Restrictions

- One of the main restrictions that we may have during the development of the system is the economic and the time that we are going to use when traveling to the place where the business in which the system will be developed is located.
- The hardware characteristics on the computers where the system will be installed will always be the same.
- The system must be able to work in parallel with other applications, as long as the hardware allows it

## 2.5. Assumptions and Dependencies

This system will not work properly if a computer with acceptable specifications is not available, so if it runs on a Windows operating system with a computer with acceptable specifications and the user decides to change the type of operating system, it is necessary to review and review the requirements.

## 2.6. Future Requirements

- You can implement user creation in the database that contains all commercial business data.
- In addition, it can be made more interactive to the system with images and other functions to make the system easier to use.

# 3. Specific Requirements

## 3.1. External Interfaces

Admin	No. RF	Action	Description
X	001	Description record	The user can register products and save them through the system in question, the fields of these records must be, at least, the product key, its description, price, quantity in stock, etc.
X	002	Visibility of descriptions	The user will be able to see the descriptions with which he has a certain product to be able to carry out the corresponding operation according to it.
X	003	Selection of descriptions	You can specify the description of the products stored in the database by means of queries.
X	004	Independence between servers	The server will be totally independent, so that the user can give a good service.
X	005	Unit of descriptions	On each server, the descriptions will be unique.

### 3.2. Functions

- The user can register products and save them through the system in question, the fields of these records must be, at least, the product key, its description, price, quantity in stock, etc.
- The user will be able to see the descriptions with which he has a certain product to be able to carry out the corresponding operation according to it.
- You can specify the description of the products stored in the database by means of queries.
- The server will be totally independent, so that the user can give a good service.
- On each server, the descriptions will be unique.

### 3.3. Performance Requirements

The response that the system will give with respect to the user's request must be in real time.

### 3.4. Design Restrictions

The life cycle chosen to develop the system will be the waterfall (waterfall) which consists of four stages that are: analysis, design, coding and testing, which will help us simplify the planning of activities.

### 3.5. System Attributes

- The system must be portable, so that it can be installed on different computers of the same company with ease.
- The system should be designed so that its maintenance is easy, and in this way it can be extended and corrected if necessary.

### 3.6. Other Requirements

- You can communicate with the user to take advantage of the system requirements, the user will indicate to the system the operations to be performed and enter the data that the system requests.
- Communication between system modules will be performed through related databases.

## 4. Apéndices

### 4.1. Interview

<https://www.youtube.com/watch?v=KWGpLxdjCUM&t=4s>