
Software Requirements Specification

Project: Craft Market

Document Sheet

Date	Revision	Autor	Verified
22/05/2025	24/05/2025	Chicaiza Michael Fuentes Jorge Jácome Micaela Maisincho Pedro	
3/07/2025		Chicaiza Michael Fuentes Jorge Jácome Micaela Maisincho Pedro	

Content

1 INTRODUCTION.....	4
1.1 Purpose.....	4
1.2 Scope.....	4
1.3 Involved Staff.....	4
1.4 Definitions, Acronyms and Abbreviations.....	5
1.5 References.....	5
1.6 Summary.....	6
2 OVERVIEW.....	6
2.1 Product Perspective.....	6
2.2 Product Functionality.....	6
2.3 User Characteristics.....	7
2.4 Constraints.....	7
2.5 Assumptions and Dependencies.....	7
3 SPECIFIC REQUIREMENTS.....	7
3.1 Functional Requirements.....	7
3.2 Non-functional requirements.....	8

1 INTRODUCTION

This document presents the Software Requirements Specification (SRS) for the Craft Market project, a GUI application developed in Java. The system is designed to facilitate basic management of an artisan market, allowing access through predefined user accounts, ensuring secure and controlled interaction with the application.

The project's main functionalities include registering new products, modifying product names, updating stock quantities, and managing artisan attendance. This application provides a simple yet effective tool for facilitating inventory control and participant tracking at small artisan markets.

1.1 Purpose

This project aims to streamline artisans' management of their products, including their inventory, product names, and prices. It also seeks to assist with attendance records, as this information is used to determine a penalty in the distribution of funds at the end of the month.

1.2 Scope

The Craft Market system is a Java application that manages craft markets through predefined accounts, allowing for product registration/modification, stock control, and artisan attendance tracking. It includes local data persistence and simple reporting with a graphical interface; however, it excludes payment gateways, public user registration, and external integrations. Its scope is limited to automating basic inventory operations and participating in small markets.

1.3 Involved Staff

Name:	Chicaiza Michael
Rol:	Developer
Professional Category:	Student
Responsibility:	Attendance
Contact:	machicaiza22@espe.edu.ec

Name:	Jorge Fuentes
Rol:	Developer
Professional Category:	Student
Responsibility:	Inventory
Contact:	jlfuentes3@espe.edu.ec

Name:	Micaela Jácome
Rol:	Developer
Professional Category:	Student
Responsibility:	Edit Inventoy
Contact:	mvjacome4@espe.edu.ec

Name:	Pedro Maisincho
Rol:	Developer
Professional Category:	Student
Responsibility:	Reports
Contact:	pimaisincho@espe.edu.ec

1.4 Definitions, Acronyms and Abbreviations

Name	Description
ERS	Software Requirements Specification

1.5 References

Document	Reference
Standard IEEE 830	IEEE

1.6 Summary

The first section of this document presents an introduction to the project, including the scope and information about the team's developers.

The second section of the document will present an overview of the system and explain its main functions.

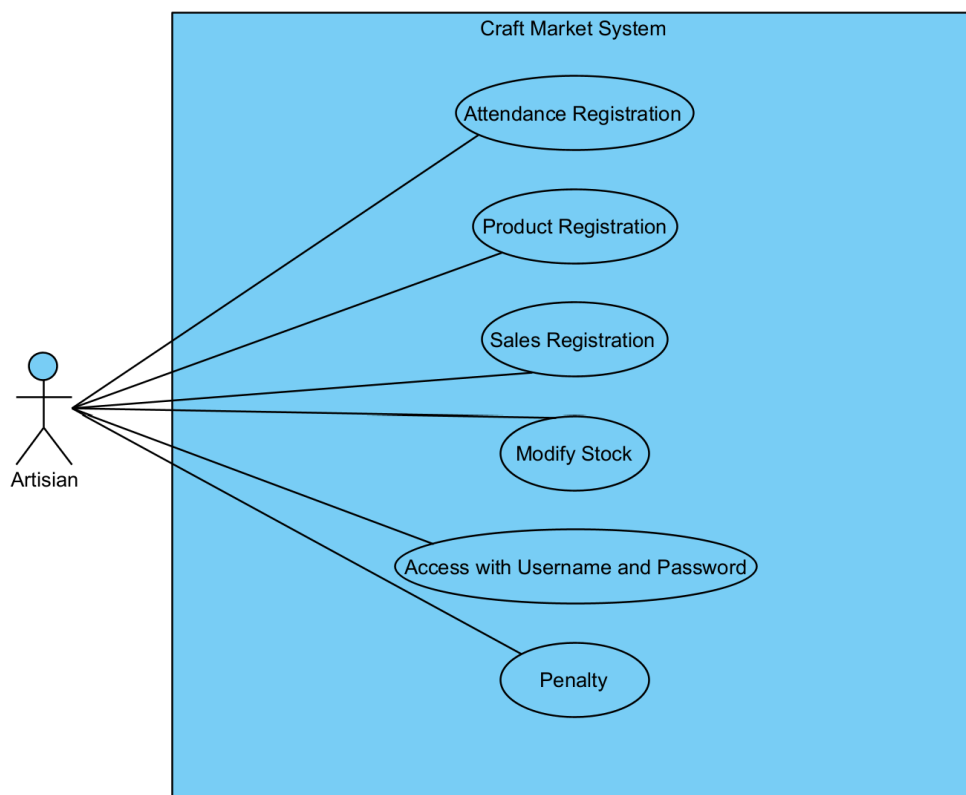
The third section will present the requirements the system must meet.

2 OVERVIEW

2.1 Product Perspective

The developed system is based on a previous console-only version, and now includes graphical interfaces in Java designed to facilitate the operational management of a craft market, where each artisan is responsible for their products, sales, and inventory. This product offers specific features for attendance control, sales registration, inventory management, and product administration.

2.2 Product Functionality



2.3 User Characteristics

User type:	Artisan
Category:	Client
Activities:	Attendance record, product registration and inventory modification

2.4 Constraints

- Programming language: Java.
- Predefined accounts.
- Does not process data in real time.
- Basic hardware resources.
- Basic authentication.

2.5 Assumptions and Dependencies

- It is assumed that the computers where the program will be executed have the hardware and software necessary for its proper operation.
- It is assumed that the users (artisans) will follow the agreed-upon, predefined procedure.
- The program depends on the use of an IDE capable of running Java.

3 SPECIFIC REQUIREMENTS

3.1 Functional Requirements

Requirement ID:	RF01
Requirement Name:	User Login
Characteristics:	Users must authenticate themselves to access the system.
Requirement Description:	The system will request a valid username and password to allow access to the system.
Non-Functional Requirement:	RNF01, RNF03, RNF04
Requirement Priority:	High

Requirement ID:	RF02
Requirement Name:	Access Main Menu

Characteristics:	Accessing the system leads to the main menu.
Requirement Description:	Once authenticated, the user will be able to access the system's main menu.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	High

Requirement ID:	RF03
Requirement Name:	Register Artisan Attendance
Characteristics:	Artisans must be able to record their daily attendance.
Requirement Description:	The system will allow the recording of an artisan's daily attendance.
Non-Functional Requirement:	RNF01, RNF03, RNF05
Requirement Priority:	High

Requirement ID:	RF04
Requirement Name:	View Attendance History
Characteristics:	The system must allow viewing of attendance history.
Requirement Description:	The user will be able to view an artisan's attendance history at any time.
Non-Functional Requirement:	RNF01, RNF04
Requirement Priority:	High

Requirement ID:	RF05
Requirement Name:	Calculate Absence Penalties
Characteristics:	Penalties for unexcused absences must be calculated.
Requirement Description:	The system will automatically calculate the corresponding penalties based on the recorded absences..
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	Medium

Requirement ID:	RF06
Requirement Name:	Record Daily Sale
Characteristics:	The system must allow the entry of daily sales data.
Requirement Description:	The user will be able to record the product name, quantity, unit price, date, and the name of the artisan who made

	the sale.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	High

Requirement ID:	RF07
Requirement Name:	Add New Product
Characteristics:	Artisans will be able to add products to their personal catalog.
Requirement Description:	The system will allow an artisan to register a new product in their list.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	High

Requirement ID:	RF08
Requirement Name:	Edit Product Details
Characteristics:	Artisans will be able to modify their product details.
Requirement Description:	The system will allow artisans to update information on their registered products.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	High

Requirement ID:	RF09
Requirement Name:	Remove Product
Characteristics:	Artisans will be able to remove products from their catalog.
Requirement Description:	The system will allow artisans to delete products they no longer wish to keep registered.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	High

Requirement ID:	RF10
Requirement Name:	View Available Products
Characteristics:	The system will display the available inventory.
Requirement Description:	The system will display all registered and available products for viewing.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	Medium

3.2 Non-functional requirements

Requirement ID:	RNF01
Requirement Name:	Usability

Characteristics:	<ul style="list-style-type: none"> - Intuitive graphical interface based on JFrame. - Hierarchically organized menus and buttons. - Clear and guided error messages for the user.
Requirement Description:	The system should allow users, even without prior experience, to perform basic operations using a user-friendly visual interface.
Requirement Priority:	High

Requirement ID:	RNF02
Requirement Name:	Data Retention
Characteristics:	<ul style="list-style-type: none"> - Saved data must be retained between runs. - Changes must persist even when the application is closed.
Requirement Description:	The system must ensure that all entered and updated information is saved correctly and is not lost when the application is closed.
Requirement Priority:	High

Requirement ID:	RNF03
Requirement Name:	Availability
Characteristics:	<ul style="list-style-type: none"> - The application must be able to run at any time. - Scheduled maintenance or updates must be allowed..
Requirement Description:	The system must be available for continuous use, ensuring its operation during the artisan market's operating hours.
Requirement Priority:	Average

Requirement ID:	RNF04
Requirement Name:	Compatibility
Characteristics:	<ul style="list-style-type: none"> - Must be cross-platform - Has a Java dependency.
Requirement Description:	The system must run without errors on Java-compatible operating systems.
Requirement Priority:	Low

Requirement ID:	RNF05
Requirement Name:	Graphical Interface
Characteristics:	<ul style="list-style-type: none"> - Graphic design using JFrame. - Clear visual components (buttons, tables, labels, etc.).
Requirement Description:	The system must present a visual interface based on JFrame, with a structured design that facilitates access to the system's functionalities (registration, inventory, support)..
Requirement Priority:	High