Software Requirements Specification

Project: Craft Market

Document Sheet

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Content

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

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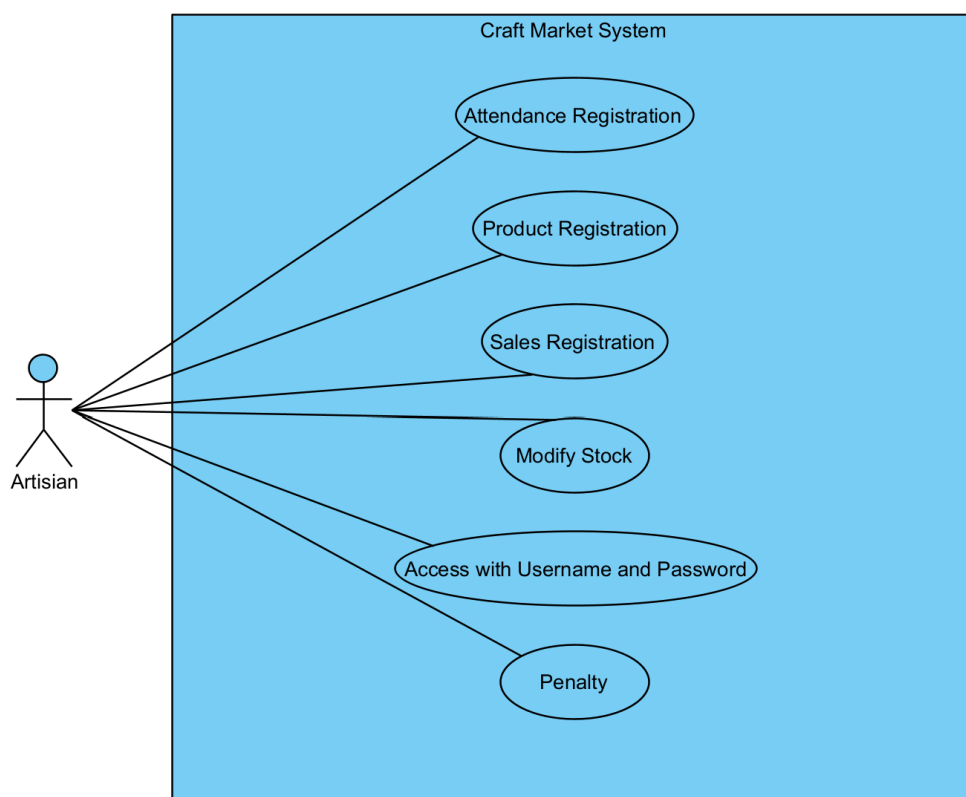The second section of the document will present an overview of the system and explain its main functions.
The third section will present the requirements the system must meet.

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 Authentication
Characteristics:	Users must authenticate to access the system.
Requirement Description:	The system will request a valid username and password to log in and access the main menu.
Non-Functional Requirement:	RNF01, RNF03, RNF04
Requirement Priority:	High

Requirement ID:	RF02
Requirement Name:	Record Artisan Attendance

Characteristics:	Artisans must be able to mark their daily attendance.
Requirement Description:	The system will allow users to record attendance, check attendance history, and calculate penalties for absences.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	High

Requirement ID:	RF03
Requirement Name:	Daily Sales Record
Characteristics:	The system must allow the entry of daily sales data by artisan.
Requirement Description:	The user can register product name, quantity, unit price, date, and artisan's name.
Non-Functional Requirement:	RNF01, RNF03, RNF05
Requirement Priority:	High

Requirement ID:	RF04
Requirement Name:	Product Management
Characteristics:	Artisans will manage their own product listings.
Requirement Description:	The system will allow artisans to add, edit, or delete their products.
Non-Functional Requirement:	RNF01, RNF04
Requirement Priority:	High

Requirement ID:	RF05
Requirement Name:	Inventory Consultation
Characteristics:	Users will be able to view the current inventory.
Requirement Description:	The system will display all available products and allow filtering by artisan.
Non-Functional Requirement:	RNF01, RNF03
Requirement Priority:	Medium

3.2 Non-functional requirements

Requirement ID:	RNF01
Requirement Name:	Usability

Characteristics:	- 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:	- 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:	- 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:	- 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:	- 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