

OOMD Lab - Week 3 (01-04-21)
Stocks (Inventory) Maintenance System

1. Develop a problem statement for Stocks (Inventory) Maintenance System

1.1. Problem Statement -

The stock maintenance system must take care of sales information of the company and must analyze the potential of the trade. It maintains the number of items that are added or removed in the inventory. The sales person initiates this Use case. The sales person is allowed to update information and view the database.

2. Develop a complete IEEE standard SRS document with several requirements.

2.1. Introduction

Stock maintenance is an interface between the customer and the salesperson. It aims at improving the efficiency in maintaining the stocks in the inventory.

2.2. Purpose

The entire process of Stock maintenance is done in a manual manner. Considering the fact that the number of customers for purchase is increasing every year, a maintenance system is essential to meet the demand. So this system uses several programming and database techniques to make it easy for all the work involved in this process.

2.3. Scope

The system provides an interface for the customers, the suppliers, and the management where they can fill in the orders, or update the inventory.

2.4. Definitions, Acronyms and the Abbreviations

- 2.4.1. Market Data provider: One who analyzes the product and distributes the news.
- 2.4.2. Customer: One who takes order of product
- 2.4.3. Sales person: One who maintains the stock details.

3. External Interface Requirements

3.1. User Interfaces

3.1.1. For customers-

- 3.1.1.1. Product search
- 3.1.1.2. User login
- 3.1.1.3. View orders
- 3.1.1.4. View returns

3.1.2. For Suppliers -

- 3.1.2.1. Product search (for research purposes only)
- 3.1.2.2. Supplier login
- 3.1.2.3. Update price offering
- 3.1.2.4. Update availability

3.1.3. For inventory managers -

- 3.1.3.1. Product search
- 3.1.3.2. Login
- 3.1.3.3. Update stock
- 3.1.3.4. Delete items

3.1.4. For store managers -

- 3.1.4.1. Product search
- 3.1.4.2. Login
- 3.1.4.3. Update price
- 3.1.4.4. Update discounts
- 3.1.4.5. Update stocks

3.2. Hardware interface

3.2.1. Kiosks

3.2.2. Computers

3.2.2.1. Intel i5 5th Gen or better

3.2.2.2. 4GB Ram

3.2.2.3. 500GB HDD

3.2.2.4. 1Mbps or better internet connection

3.3. Software Interface

3.3.1. Windows 7 or later; MacOS 10 or later; Ubuntu 18 or later

3.3.2. Modern browsers like Google Chrome, Edge, Firefox, Brave etc.

4. Functional requirements

4.1. Responsive

4.2. Good UI/UX

4.3. Bug-free interface with no vulnerabilities

4.4. Great server-uptime

4.5. Security

4.6. Portability

4.7. Reliability

5. Non-Functional requirements

5.1. Attractive and competitive prices

5.2. Good stock management, and products that sell good should always be available.

5.3. Good performance by the servers. (Good uptime)

5.4. Appropriate permissions given to different roles

6. Other requirements

Nothing specific