***Software Requirements Specification***

***Version 1.0***

***May 21, 2021***

***Application of commercial store management***

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Table of Contents

1. Introduction
   1. Purpose………………………………………………………………………………………………………………..4
   2. Scope of project……………………………………………………………………………………………………4
   3. Glossary……………………………………………………………………………………………………………….5
   4. References…………………………………………………………………………………………………………..5
   5. Overview of Document5

2.0 Overall Description

2.1 System Environment6

2.2 Functional Requirements Specification7

2.2.1 . maneger use case ………………………………………………….……………………….………8

use case : The manager determines which goods are available….…….8

2.2.2 clint use case ………………………………………………………………………………..………………9

Use case: Merchandise selection…………………………………….9

2.2.3 Accountant use case …………………………………………………………………………………10

Use case: The accountant calculates the bill………………………..10

2.3 User Properties ………………………………………………………………………………………………10

2.4 Non-functional Requirements……………………………………………………………………………….11

**3.0. Requirements Specifications…………………………………………………………………………………………11**

3.1. External Interface Requirements……………………………….………………………………………….11

3.2. Functional Requirements………………………………………………………………………………………12

3.2.1 *The manager determines which goods are available* ………………………………….12

3.2.2 Merchandise selection…………………………….13

3.2.3 *The accountant calculates the bill* ………………………………………………………..14

3.3. Detailed Non-Functional Requirements……………………………………………………………………15

3.3.1 Logical Structure of the Data…………………………………………………………………………….15

#### 3.3.2. Performance Requirements………………………………………………………………………………15

3.3.3 Safety Requirements………………………………………………………………………………………….16

3.3.4 Security Requirements……………………………………………………………………………………….16

**List of figures**

Figure 1\_System Environment……………………………………… 7

Figure2\_ **Logical Structure of the System**……………………………….15

1. **Introduction**
   1. **Purpose**

The purpose of this document is to provide a detailed description of the commercial store management system. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the limitations it must operate under and how the system will interact with external stimuli. This document is intended for both stakeholders and system developers and will be proposed to Al-Baath University for approval.

**1.2. Scope of project**

This software system will be an electronic store management system. It is designed for commercial enterprises.

Conducting all sales and purchases and generating sales reports.

Allowing customers to add their requests to the database from the system's website, in order to bring them to them later

**1.3. Glossary**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Stakeholder | Any person with an interest with the project who is not a developer. |
| Database | Collection of all the information monitored by this system. |
| Software Requirements Specification | A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example this document. |
| User | A customer, seller, or manager. |
| Admin/Administrator | The person who manages the store system, who is responsible for introducing new goods or preventing the purchase of certain goods and fixing prices, that is: the person who controls the system |

**1.4. References**

IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements

Specifications. IEEE Computer Society, 1998.

**1.5. Overview of Document**

The next chapter, the Overall Description Section of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

Both sections of the document describe the same software product in its entirely.

But are intended for different audiences and thus use different language.

**2.0. Overall Description**

**2.1 System Environment**

clint

System Manage

Manager

List of goods



***Application of commercial store management***



Accountant

***Figure 1-System Environment***

Data Base

system of commer-cial store management

has four active actors.

The manager adds and deletes the goods from the database

The customer uses the application to access the list of goods

The accountant knows the customer's goods and calculates the invoice.

2.2 Functional Requirement Specifications

This section describes the use cases for each active actor

**2.2.1. maneger use case**

use case : The manager determines which goods are available

manegar

Goods database

Brief description

The manager accesses the main application interface and adds or deletes the goods

Initial description step-by-step

Before proceeding with this use case, the manager has prepared the merchandise list

1. The order displays the shop's merchandise

2. The manager chooses the location of the goods according to the department

3. The system offers *multiple options to the customer depending on the type of department*

***2.2.2 clint use case***

*Use case: Merchandise selection*

clint

List of goods

***Brief Description***

*The customer chooses the goods he wants*

***Initial Step-By-Step Description***

*Before this use case starts, the customer has entered the app*

*1. The system displays the available merchandise*

*2. The customer chooses the required department.*

*3. The system provides a list of the merchandise of the selected section*

*4. The customer chooses his goods*

***2.2.3 Accountant use case***

*Use case: The accountant calculates the bill*

accountant

List of goods

***Brief description***

*The accountant arrives at the customer’s selected Leblaa and calculates the invoice*

***Initial description step-by-step***

*Before this use case begins, the accountant has obtained a list of the customer's purchases*

*1. Calculate the value of these purchases*

*2. He prints an invoice for the value and sends it to the customer*

***2.3 User Properties***

*The customer is expected to be an Arab.*

*The customer is expected to be able to read*

*The main screen of the application will contain the search function.*

*It is expected that the administrator is Windows in the literal sense.*

***2.4 Non-functional Requirements***

*- The program interface is easy and smooth*

*- The application works on the Windows environment*

*- Print the invoice according to an organized schedule and in a colored font*

*- Create a miniature version of the system application for the Android system that enables users to view prices from their mobile phones*

***3.0. Requirements Specifications***

***3.1. External Interface Requirements***

*The customer must deal with computers inside the store to reach the goods list*

*The accountant must make sure the customer name in the list of privileged customers for a discount work.*

***3.2. Functional Requirements***

*3.2.1*  ***The manager determines which goods are available***

|  |  |
| --- | --- |
| Use case name | The manager determines which goods are available |
| XRef | Section 2.2.1 The manager determines which goods are available |
| Trigger | The manager is logged on to the lost database of its personal account |
| Precondition | The manager is aware of all database sections |
| Basic Path | 1. The manager is logged on to the database from its account  2. Displays the available goods system  2. Choose the director of the finished goods or to be added  3. The system provides special options for each commodity  4. Adds the Director |
| Postcondition | The goods are added or deleted from the database |
| Exception paths | In step2, the manager can schedule a quantity of goods to remove the item at the end of the quantity |

3.2.2 *Merchandise selection*

|  |  |  |
| --- | --- | --- |
| Use case name | | *Merchandise selection* Diagram |
| XRef | | Section 2.2.2 *Merchandise selection* |
| Trigger | | The customer is entering the application interface |
| Precondition | | The facade is ready to receive customer requests and send it to store workers |
| Basic path | | 1. The customer is entering the system interface  2. The system displays the goods available in the shop  3. The customer determines the goods to be purchased  4. The system provides questions about the quality of each commodity  4. Customer chooses specific quality  5. The system calculates the total cost of goods  6. Then send the cost of the accountant. |
| Postcondition | The amount of goods selected by the customer is deleted from the database | |
| Exception paths | The customer can click Purchase to order the cost of selected goods | |

3.2.3 *The accountant calculates the bill*

|  |  |  |
| --- | --- | --- |
| Use case name | | *The accountant calculates the bill* Diagram |
| XRef | | Section 2.2.3 *The accountant calculates the bill* |
| Trigger | | The accountant enters to buy data |
| Precondition | | The accountant has arrived in the invoice |
| Basic path | | 1. 1. Enter the accountant for purchase data. 2. 2. The system is equipped with the invoice and its offer to the accountant 3. 2. The accountant is printing a copy of the customer. |
| Post condition | The database is updated with lost drag | |
| Exception paths | Accountant presses the print button to print invoice | |

**3.3. Detailed Non-Functional Requirements**

**3.3.1 Logical Structure of the Data**

The logical Structure of the data to be stored in the internal Database is given below.

maneger

client

Accountant

Print

Delet

add

Buy

Data Base

Bill

commodity

goods

Send to

**Figure 2 – Logical Structure of the System**

#### 3.3.2. Performance Requirements

* The database must be able to absorb at least the 20000 quality of goods..
* The software shall support use of multiple users at a time.

**3.3.3 Safety Requirements**

* The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

***3.3.4 Security requirements***

*Restrict communication between some sections within the application.*

*The server will have your security to prevent tampering with the database of external people who do not have tasks.*