**Software Requirements**

**Specification**

**for**

**<Pharmacy System>**

**Version 3.0 approved**

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**< IS >**

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***Software Requirements Specification for <Project> Page ii***

# Table of Contents

[**Table of Contents ii**](#_gjdgxs)

[**Revision History ii**](#_30j0zll)

[**1.** **Introduction 1**](#_1fob9te)

[1.1 Purpose 1](#_3znysh7)

[1.2 Product Scope 1](#_2et92p0)

[1.3 References 1](#_tyjcwt)

[**2.** **Overall Description 1**](#_3dy6vkm)

[2.1 Product Functions 1](#_1t3h5sf)

[2.2 User Classes and Characteristics 2](#_4d34og8)

[2.3 Operating Environment 2](#_2s8eyo1)

[2.4 Assumptions and Dependencies 2](#_17dp8vu)

[**3.** **System Functions 2**](#_3rdcrjn)

[3.1 Sales Function 2](#_26in1rg)

[3.2 Reports Function 3](#_lnxbz9)

[3.](#_35nkun2)2.1 [Sales Reports 3](#_35nkun2)  
3.2.2 Purchases Reports 4

[3.](#_35nkun2)2.3 [Accounting Reports 4](#_35nkun2)

[3.](#_35nkun2)2.4 [Supplier Reports](#_35nkun2) 5

[3.](#_35nkun2)2.5 [Warehouse Reports 5](#_35nkun2)

[3.](#_lnxbz9)3 [Purchases Function](#_lnxbz9) 6

[3.](#_lnxbz9)4 [Offers Function](#_lnxbz9) 6

[**4.** **Nonfunctional Requirements**](#_1ksv4uv) **7**

[4.1](#_44sinio) Interface7

[4.2 Performance](#_2jxsxqh) 7

[4.3](#_z337ya)  Portability and compatibility 8  
4.4 Offline Mode 8

[**5.** **Diagrams**](#_3j2qqm3) **8**

[5.1 Data-Flow Diagram (DFD)](#_1y810tw) 8

[5.2 Entity-Relationship Diagram (ERD)](#_4i7ojhp) 8

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Pharmacy System 1.0 | 19\3\2022 |  | 1.00 |
| 2.0 | 23\3\2022 | Adding and removing of some requirements | 2.00 |
| 3.0 | 13\5\2022 | Removing nfr 4.4 and adding fr 3.5 | 3.00 |

# Introduction: The following section provides an overview the software requirements specifications (SRS) for the Pharmacy system.

## Purpose

< The purpose of the software is to organize the sales process, manage the pharmacy stock, create offers and manage reports. >

## Product Scope

< **-**The software will provide the user with the ability to:

- Create receipts for products sold or returned

- Put offers on products

- Keep detailed record of warehouse stock

- Keep detailed record of purchases

- Make reports for all the financial affairs. >

## References

< Interview with Dr. Osama Ismail and Pharmacist at El-Ezaby Pharmacy. >

# Overall Description

## Product Functions

< This will perform four main functions:

- Sales: this function creates detailed receipts of products sold to and returned by customers of the pharmacy

- Purchases: this function is used to enter the products bought by the pharmacy with details of the purchase i.e. (supplier, expiry date, price in bulk and for user, etc)

- Records: this function is used to create records for various financial and managerial affairs such as (warehouse reports, sales reports, expiry reports, etc)

- Offers: this function dictates what products have offers on them>

## User Classes and Characteristics

< -Pharmacy manager: This user has all permissions and accessibility to all features and can create accounts for staff with different permissions, they will be using it mainly for reports

-Pharmacist: This user will be mostly using it for sales

-Data entry clerk: This user will be using it only for purchases

-Accountant: This user will be using it only for reports

-Cosmetics executive: This user will be using it only for sales >

## Operating Environment

< The software will be operating on medium tier machine e.g. core i5 pc, it will be running windows and it will be used alongside a printer, receipt printer, barcode printer, barcode scanner >

## Assumptions and Dependencies

< The system performance could be impaired severely if installed on an old ill equipped pc, the functionality of the system when the wi-fi is out may not be implemented if it compromises the security of data >

# Functional Requirements

## Sales Function

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirements statement | Must/should | Comments |
| S001 | The function creates receipts with a standard template and accepts input from the keyboard or the barcode scanner | Must | The receipt must include the item/items name, price, quantity, total cost, type of payment and the pharmacist name, it should log the amount paid in the cash drawer and the items should be removed from the warehouse |
| S002 | Option for home delivery | Must | In case of using this option the receipt should include the delivery guy's name, the customer's home address and phone number |
| S003 | Option for payment type | Must | It should accept cash payment, visa, or insurance |
| S004 | Option for making the receipt a return receipt | Must | In case of return, the items should be added to warehouse and cost subtracted from cash drawer |

## 

## Purchases Function

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirements statement | Must/should | Comments |
| P001 | Enter purchases | Must | It takes input for purchased products and takes in the product manufacturer, expiry date, price in bulk, price for customer, taxes, profit gained and quantity |
| P002 | Return purchases | Must | Selected items should be removed from warehouse |
|  |  |  |  |

## Offers Function

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Code** | Requirement Specification | Must/should | Comments | General Comment |
| OF001 | Discount offer | Must | User should select item and type the discount amount | The offers should be automatically included in the receipt just by scanning the items |
| OF002 | Free piece/s | Must | User should select item/s and select the free item/s combined with it |

## Reports Function

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirements statement | Must/should | Comments |
| R001 | Menu of reports | Must | The menu items are: sales reports-purchases reports-warehouse reports-accounting reports-supplier reports, also, any report is displayed based on the time period chosen (day/week/month/quarter/year) and every report has a "print" option |

* **Sales Reports**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement Specification | Must/should | Comments |
| SR001 | Pharmacy sales reports | Must | Report for all sales made |
| SR002 | Sales comparison (based on selected items) | Must | User must select two items for a comparison report |
| SR003 | Top and lowest selling items | Must |  |
| SR004 | Most and least expensive items | Must |  |
| SR005 | Sales comparison of cosmetics and medication | Must |  |
| SR006 | Sales comparison of different payments | Must | Compares the sales based on cash, visa and insurance |

* **Purchases Reports**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement Specification | Must/should | Comments |
| PR001 | Purchases bought from suppliers | Must |  |
| PR002 | Purchases returned | Must |  |

### **Accounting Reports**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement Specification | Must/should | Comments |
| AR001 | Amount in safe | Must |  |
| AR002 | Bank Account balance | Must |  |
| AR003 | Expenses and Revenues | Must |  |
| AR004 | Banking position | Must | Check that must be paid for suppliers with their due dates and amount |
| AR005 | Profits and losses | Must |  |

* **Supplier Reports**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement Specification | Must/should | Comments |
| SPR001 | Suppliers' credits | Must | How much the pharmacy owes to each supplier |
|  |  |  |  |

* **Warehouse Reports**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement Specification | Must/should | Comments |
| WR001 | Stock reports | Must | Report of all items in warehouse and their total cost |
| WR002 | Insufficient items | Must | Items in quantity of 30 or less |
| WR003 | Expiry Reports | Must | Products that have expired |
| WR004 | Transactions | Must | Items that have been transferred from the warehouse to the pharmacy or vice versa |
| WR005 | Product activity | Must | A report for a specific item selected by the user which specifies when the product was bought, sold and transferred and in what quantity |

**3.5 Alarm**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement statement | Must/should | Comments |
| **A001** | Alarm of insufficient items | **Must** | When a product reaches a set quantity e.g. 20 pcs the software shows an alarm prompt to the user |

## 

# Nonfunctional Requirements

* 1. **Usability**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirement statement | Must/should | Comments |
| I001 | The software prompts the user to enter username and password | Must |  |
| I002 | After logging there's a toolbar that has sales - purchases - reports - offers - create user - exit | Must |  |

## Performance

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirements statement | Must/should | Comments |
| PFM001 | Loading or response time should be under or between 5-10 seconds | Should | Software will be running on medium tier pc e.g. 8th gen core i5 cpu |
|  |  |  |  |

## Portability and compatibility

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | Requirements statement | Must/should | Comments |
| PC001 | The software must be compatible with a visa machine, printer, barcode printer, receipt printer and a barcode scanner | Must |  |
| PC002 | The software must work on Windows | Must |  |
|  |  |  |  |

# Diagrams

## Data-Flow Diagram (DFD)

## Entity-Relationship Diagram (ERD)