Software Requirements Specification

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Pharmacy management system

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A project in Software Engineering'2' course

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# 1.0. Introduction

## 1.1. Purpose

The purpose of this document is to present a detailed description about how to manage the work of Dima Pharmacy, services that must be provided and simple interfaces to the system.

This document is intended for both the stakeholders and the developers of the system.

## 1.2. Scope of Project

This software system will be a management System for a Pharmacy. This system will be designed to increase the speed and organization of the workflow through the possibility of automating the processes of buying and selling medicine whether for customers or from the representative of the drug store , which would otherwise have to be performed manually.

The pharmacy is contracted to some insurance companies.

The system also contains a database containing drug items, insurance companies, and drug stores.

The scope of system services is only within the pharmacy because the companies that are deal with are not compatible with the program

## 1.3. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| 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. |
| Stakeholder | Any person with an interest in the project who is not a developer. |
| Customer | Reviewer or Author. |
| Insurance companies | Companies that provide discounts for prescriptions|recipe |

## 1.4. 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 entirety, but are intended for different audiences and thus use different language.

# The fourth chapter , Support section , will contain extensions and some of paper models for buy and sale bills and recipe .

# 2.0. Overall Description

## 2.1 System Environment

Head Pharmacist

Customer

Insurance company pharmacist

Sales system

Insurance company's system

Management system

Accountant

Figure 1 - System Environment

The pharmacy management System has four active actors and one cooperating system.

The Customer accesses the system through the Head pharmacist. The Head pharmacist and the Accountant and the Insurance company's pharmacist access the system directly.

## 2.2 Functional Requirements Specification

This section outlines the use cases for each of the active readers separately. The Customer, the Insurance company's pharmacist and the Accountant have only one use case a piece while the Head pharmacist is main actor in this system.

### 2.2.1 Customer Use Case

Does not have a prescription

#### Use case: Request Medicine

**Diagram:**

Reader

Request Medicine

Having a prescription

**Brief Description**

The Customer Request a Medicine to be bought either with a prescription or without, then pay for it and take it.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Customer is already in the pharmacy.

1. The customer enters the pharmacy and asks for a medicine with or without a prescription.
2. The Head pharmacist checks the availability of the medicine.
3. The Head pharmacist checks the Strengths of the medicine.
4. The Head pharmacist initiate the Bill and add the required medicine to it.
5. The customer pays for the medicine and take it.

### 2.2.2 Head pharmacist Use Case

#### Use case: Add a medicine card

**Diagram:**

Head Pharmacist

Add a medicine card

**Brief Description**

The head pharmacist adds a new medicine card for the new medicine.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Head pharmacist must Buy a new medicine.

1. The head pharmacist asks the employee of a company for a new medicine
2. The head pharmacist add a new card for the the medicine containing of id , name , price , production date , expiration date , company’s name , strength , amount available , amount sold , amount bought in the last bill , other option with the same functionality , chemical composition , category(pills , drink … etc.)
3. The new card gets placed with other cards.

#### Use case: buy medicine

**Diagram:**

Head Pharmacist

Add a medicine card

**Brief Description**

The head pharmacist adds Buys a new medicine.

Before this use case can be initiated, the Head pharmacist must see the need of Buying a new Medicine or discover a new kind of medicine.

**Initial Step-By-Step Description**

1. The head pharmacist discovers a shortage in a kind of a Medicine or a new kind of medicine
2. The Head pharmacist Asks the employee of the employee company for the availability of the medicine.
3. The Head pharmacist chooses the amount and the Strengths of the new medicine.
4. The Head pharmacist checks the Bonuses added by the medicine company.
5. The employee deliver the required Medicine.
6. The head pharmacist pay the price of the medicine.
7. The head pharmacist add a new buying bill for the new medicine.

### 2.2.3 Insurance company's pharmacist Use Case

#### Use case: Attach the prescription with an insurance company

**Diagram:**

Insurance company's pharmacist

#### Attach the prescription with an insurance company

**Brief Description**

The Insurance company's pharmacist checks for which insurance company does the bill belongs to and if the recipe is valid.

**Initial Step-By-Step Description**

Before this use case can be initiated, the customer recipe must belong to an insurance company.

1. The Insurance company's pharmacist sends the recipe to the insurance companies responsible for the recipe.
2. The insurance company validate the recipe and respond with the answer.
3. The Insurance company's pharmacist then read the answer.
4. The Insurance company's pharmacist initiate the special bill for the insurance company's recipes.

### 2.2.4 Accountant Use Cases

#### Use case: count the sales

Accountant

Count the sales

**Diagram:**

**Brief Description**

The Editor enters a new Author or updates information about a current Author.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Accountant has already Access the new sell and buy operation.

1. The Head pharmacist Asks the Accountant count the sales in a time .
2. The Accountant checks the bills of the sales and buy's in that time.
3. The Accountant calculate the sales using the bills.
4. If the Accountant want to calculate the money gained he only checks the sell bills.
5. The Accountant inform the Head pharmacist with the information.

## 2.3 User Characteristics

The Customer is expected to know The medicine he want .

The Head pharmacist and Insurance company's pharmacist and the Accountant is expected to be Windows literate and to be able to use button, pull-down menus, and similar tools.

## 2.4 Non-Functional Requirements

The System should be fast enough to be considered Real time so no delays happens.

The system should backup the buy and sell bills on the start of every month as a digital copy.