Sortware Requirements Specfication

Version 1.0

<<Annotated Version>>

Junary 19/6/2020

A project to develop a system for automating and managing the Um al-Zanar Center for Relief and Development

Christen Sattouf

Qamar Samoul

Reem Saliby

<<Any comments inside double brackets such as these are *not* part of this SRS but are comments upon this SRS example to help the reader understand the point being made.

Refer to the SRS Template for details on the purpose and rules for each section of this document.

This work is based on the request of the doctors to undertake a project by the students.

This project was carried out by the following students: Christen Sattouf, Qamar Samoul

and Reem Saliby>>

# Table of Contents

[Table of Contents i](#_Toc77487619)

[List of Figures i](#_Toc77487620)

[1.0. Introduction 1](#_Toc77487621)

[1.1. Purpose 1](#_Toc77487622)

[1.2. Scope of Project 1](#_Toc77487623)

[1.3. Glossary 2](#_Toc77487624)

[1.4. References 3](#_Toc77487625)

[1.5. Overview of Document 3](#_Toc77487626)

[2.0. Overall Description 4](#_Toc77487627)

[2.1 System Environment 4](#_Toc77487628)

[2.2 Functional Requirements Specification 5](#_Toc77487629)

[2.2.1 Health Support program Employee Use Case 5](#_Toc77487630)

[Use case: Pharmacy registration 5](#_Toc77487631)

[Use case: register within the Health Support Program](#_Toc77487632) 6

[2.2.2 Houses Wages Program Employee Use Case 7](#_Toc77487634)

Use case: register within the Houses Wages Program 7

[2.2.3 Volunteer Use Cases 8](#_Toc77487634)

[Use case: Register New Beneficiary 8](#_Toc77487635)

[2.2.4 Officer Use Cases 8](#_Toc77487634)

[Use case: Establishment of general distributions 8](#_Toc77487635)

[2.2.5 Director Use Cases 9](#_Toc77487636)

[Use case: Employee data management 9](#_Toc77487637)

[Use case: Coordinate with the external sponso 10](#_Toc77487638)

[Use case: Approval of registration requests for all programs](#_Toc77487639)  11

[2.3 User Characteristics 11](#_Toc77487648)

[2.4 Non-Functional Requirements 12](#_Toc77487649)

[3.0. Requirements Specification 13](#_Toc77487650)

[3.1 External Interface Requirements 13](#_Toc77487651)

[3.2 Functional Requirements 13](#_Toc77487652)

[3.2.1 New beneficiary registration 13](#_Toc77487653)

[3.2.2 Register house wages 14](#_Toc77487654)

[3.2.3 Pharmacy registration 14](#_Toc77487655)

[3.2.4 Register within the Health Support Program 15](#_Toc77487656)

[3.2.5 Print distribution lists 16](#_Toc77487657)

[3.2.6 data management 16](#_Toc77487658)

[3.2.7 Coordinate with the external sponsor 17](#_Toc77487659)

[3.2.8 Approval of registration requests for all programs 17](#_Toc77487660)

[3.3 Detailed Non-Functional Requirements 18](#_Toc77487665)

[3.3.1 Logical Structure of the Data 18](#_Toc77487666)

[3.3.2 Security 20](#_Toc77487667)

[Index i](#_Toc77487668)

# List of Figures

[Figure 1 - System Environment 4](#_Toc77487669)

[Figure 2 - Director Use Cases 8](#_Toc77487671)

[Figure 3 - Logical Structure of the center Data 18](#_Toc77487672)

# 1.0. Introduction

## 1.1. Purpose

The purpose of this document is to provide a detailed and accurate explanation of the

system to be developed, and to present all the tasks assigned to it to meet the desire of the

customer. In addition, the document contains the development timeline.

## 1.2. Scope of Project

Umm Al-Zanar Center for Relief and Development is considered one of the important

humanitarian organizations as it had a great role in providing various aid in 14 regions

distributed over 3 governorates (Homs - Hama - Tartous) where its main center is

located in Fayrouzah - Homs countryside where there is data for all beneficiaries and

from It is with this in mind that the importance of developing a system to manage it

flexibly reduces the burdens on employees and runs the affairs of beneficiaries easily and

quickly. This document provides a description of the work system in the Umm Al-Zanar

Center, where its director requested the development of a system to automate work in all

its aspects in order to abandon paper documents and rely on the software in full, so the

team members dealt with the workers in this center directly to know the progress of work

with its detailed details and to determine the work requirements and basic ideas for the

project, which we will present in the following paragraphs of this document .

## 1.3. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| The director of the institution | has full powers and he is the one who communicates with the funding bodies |
| The Beneficiary | is the person who benefits from the Relief Center and its services |
| Database | Collection of all the information monitored by this system. |
| The volunteer | records the registration requests |
| Health support program | through which we provide health assistance to beneficiaries (prescription medications) |
| The house wages program, | through which monthly assistance is provided so that the beneficiary can pay the house rent |
| An employee responsible for a specific program | is recording requests for beneficiaries in the program |
| Automation process, | converting all paperwork to a computer operation |
| General support | may be through food or health rations, or provide personal assistance or distributions to university students or |
| Prescription | paper containing a set of drugs that a patient needs |
| The beneficiary region | . means the region in which it resides or the region near the areas covered by the center |
| query | means bringing people’s information, we would like to provide some aid |
| validity | : Means the tasks in which the employee follows |
| The external sponsor | is the dono |
| Volume | is a folder |
| Fingerprint reader | The following is a fingerprint scanner that takes the fingerprint and compares it with the stored fingerprints |

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

# 2.0. Overall Description

## 2.1 System Environment

Houses Wages Program

Volunteer

Officer

Program Officer

Beneficiary

General Support

Health Support Program

Pharmacist

Director Of The Foundation

Program officer

Figure 1 - System Environment

The Automation system Um Al-Zanar Center for Relief and Development has five active actor .

Houses Wages Program

The pharmacist and health support program officer communication through email , The Director accesses the entire system directly.

## 2.2 Functional Requirements Specification

This section outlines the use cases for each of the active actor separately . The Health Support Program employee has two use case whereas the House Wages Officer , the general staff and the volunteers have one use case while the Director is main actor in this system.

### 2.2.1 Health Support Program Employee Use Case

#### Use case: Pharmacy registration

**Diagram:**

Health Support Program Employee

Pharmacy registration

**Brief Description**

Every pharmacy dealt with must have a profile inside the center, so the employee’s job is to record the pharmacy’s data .

**Initial Step-By-Step Description**

Before this use case can be initiated, The pharmacist agreed to join the center in his region.

1. The employee register the pharmacy and pharmacist data .

2. Printing a contract between the center and pharmacist with 10% discount .

3. The employee gives the beneficiaries' data to the pharmacist along with prescriptions for their medications to secure the medicine .

#### Xref: Section 3.2.3, Pharmacy registration

**Use case:** register within the Health Support Program

**Diagram:**

Health Support Program Employee

register within the Health Support Program

**Brief Description**

Verifying the beneficiary’s registration with the center previously, then data for this program will be recorded.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Employee has already connected to the Health Support Section

1. Verifying the beneficiary’s registration with the center previously .
2. Pricing Of medical recipes in the pharmacist .
3. Determine the month in which you want to start providing assistance .
4. Record the data of the beneficiary .
5. Send the request to the manager for approval .
6. In the event of approval, the beneficiary information is sent to the relevant pharmacist
7. add the beneficiary to the list for the specified month.

**Xref:** Section 3.2.4, register within the Health Support Program .

### 2.2.2 Houses Wages Program Employee Use Case

#### Use case: register within the Houses Wages Program

**Diagram:**

Houses Wages Program Employee

register within the Houses Wages Program

**Brief Description**

Verifying the beneficiary’s registration with the center previously, then data for this program will be recorded.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Employee has already connected to the Houses Wages Section

1. Verifying the beneficiary’s registration with the center previously .
2. Checking the required papers .
3. Determine the month in which you want to start providing assistance .
4. Record the data of the beneficiary .
5. Send the request to the manager for approval .
6. If approved, add the beneficiary to the list for the specified month

**Xref:** Section 3.2.2, Register House Wages

2.2.3 Volunteer Use Cases

#### Use case Register New Beneficiary

**Diagram:**

Volunteer

#### Register New Beneficiary

**Brief Description**

The Volunteer enters a new beneficiary .

**Initial Step-By-Step Description**

Before this use case can be initiated, the Volunteer has already accessed the main page of the General Support

1. The Volunteer selects to *Add beneficiary .*
2. The Volunteer selects the beneficiary region .
3. Enter the beneficial information .
4. Family assessment .
5. Send the request to the manager for approval .
6. If approved, a card is printed for each beneficiary, with a serial number .

**Xref:** Section 3.2.1, New beneficiary registration

2.2.4 Officer Use Cases

#### Use case: Establishment of general distributions

**Diagram:**

Officer

**Establishment of general distributions**

External sponsor

**Brief Description**

The Officer is responsible foe setting up the Distribution in all its details .

**Initial Step-By-Step Description**

Before this use case can be initiated, the employee has already accessed the main page of the General Support

1. Establish the necessary inquiry .
2. Print distribution lists that include beneficiary data .
3. Send receipt lists to the external sponsor by email.

**Xref:** Section 3.2.5, Establishment of general distributions

2.2.5 Director Use Cases

The Director has the following sets of use cases:

Figure 2 - Director Use cases

Director

Coordinate with the external sponsor

Approval of registration requests for all programs

**Use case:** Employee data management

**Diagram:**

Director

Employee data management

**Brief Description**

The Director can add, delete or amend the validity of any worker in the center

**Initial Step-By-Step Description**

Before this use case can be initiated, the Editor has already accessed the Worker page in the General Support .

1. The Editor selects to *add / remove / Update worker*.
2. The system presents s list of Workers .
3. The system presents the information about the chosen Worker.
4. The Director do the action he wants .
5. The system verifies the information and returns the Director to the Worker Page with new Information .

**Xref:** Section 3.2.6 , Employee data management

**Use case:** Coordinate with the external sponsor

#### Diagram:

Director

Coordinate with the external sponsor

External sponsor

**Brief Description**

The Director Coordinate with the external sponsor To support programs and public assistance .

**Initial Step-By-Step Description**

Before this use case can be initiated, the Director has already accessed to the Beneficiaries page

1. The manager attends a volume containing the type of aid along with the number of beneficiaries with their information .
2. Send the folder to the concerned authority by email .

**Xref:** Section 3.2.7, Coordinate with the external sponsor .

**Use case:** Approval of registration requests for all programs

**Diagram:**

Director

Approval of registration requests for all programs

**Brief Description**

The manager is responsible for approving general support requests or program requests .

**Initial Step-By-Step Description**

Before this use case can be initiated, the Editor has already accessed the Pending orders page .

1. The manager selects to View the Pending order .
2. The system presents the orders .
3. The manager checks every request and special conditions for approval.
4. The manager sends either approval or rejection to the concerned employee to complete the necessary procedures .

**Xref:** Section 3.2.8, Approval of registration requests for all programs .

## 2.3 User Characteristics

2.3 User Properties

It is expected that both the manager, the health support program and the pharmacist will be familiar with the use of the email.

The rest of the employees are expected to be familiar with Windows and be able to use the button, dropdown menus, and similar tools.

The detailed look of these pages is discussed in section 3.2 below.

## 2.4 Non-Functional Requirements

All devices in the center must be connected to each other through a network to exchange information with the installation of windows on it, in addition to the presence of an access database .

All devices will be connected to a fingerprint reader for employee verification and system protection .

A color printer is required within the center