

بسم الله الرحمن الرحيم

Code For Sudan Hackathon  
Healthcare-Sudan Project

# SRS - Hospital Manager Section

(Software Requirements Specification)

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## Introduction

Healthcare Sudan is a project for Code For Sudan Hackathon. It focuses on two main problems those are really face Sudanese population in the medical field.

- 1- Delay in detecting and dealing with epidemics, which leads to its spread to a large extent, but to a large loss of life in many cases.
- 2- The difficulties that the Sudanese citizen faces to obtain medical care, such as going early to the hospital and waiting for the turn for long hours, and not knowing the services available in a hospital, except by going to it, such as the available departments and doctors, the availability of oxygen and the available beds... est.

This document explains what is the hospital manager section of the final system should be do.

## Scope

The system consists of 3 apps

- 1- Mobile app: for the user, citizen, registrar, and doctor.
- 2- Hospital Desktop: for the hospital manager, and the health officer.
- 3- Ministry Desktop App: for the ministry employee.

This document will explain the first two sections of the hospital desktop: hospital manager section which divided into 3 sections (general, medical, and statistical).

## Definitions

User: The person who uses the app **without** login.

Citizen: The person who uses the app after login.

Registrar: The user who works in a specific hospital and manage the patients' queue of specific departments.

Doctor: The doctor in a specific department in a hospital and diagnose them.

Health Officer: The user who store the patients' data of a specific hospital physically.

Manager: The person who works as a general manager, medical manager, or statistics department manager in a hospital.

Ministry Employee: The user who administrate a Health Ministry Office whether the general office of Sudan, or a general administrator of a specific state or locality.

## Functional Requirements

- FR1: The system shall allow a ministry employee to add a hospital manager by providing the name, phone number, password, and associated hospital.
- FR2: The system shall allow the hospital manager to login using phone number and password.
- FR3: The system shall allow the hospital manager to access the hospital details (name, location, and departments) **Read-only**.
- FR4: The system shall allow the hospital manager to add, edit, and remove the staff (nurses, accountants, workers, and drivers) details (name, job role, department).
- FR5: The system shall allow the hospital manager add a registrar (using name, phone number, password, and departments), edit his department, and remove him.
- FR6: The system shall allow the hospital manager to add a doctor (using name, phone number, password, level, department, and working time), and remove him.
- FR7: The system shall allow the hospital manager to add a health officer (using name, phone number, and password) and remove him.
- FR8: The system shall allow the hospital manager to add another manager (using name, phone number, password) and remove him.
- FR9: The system shall allow the hospital manager to add clinical data such as death cases, ward admissions/discharges, and operations (department, admissions, discharges, operations, deaths).
- FR10: The system shall allow the hospital manager to view and modify the appointments list.
- FR11: The system shall display a dashboard to the hospital manager, summarizing appointment data, epidemic cases, clinical data and staff information.
- FR12: The system shall allow the hospital manager to send medical (department, admissions, discharges, operations, deaths), and staff reports (department, consultants, specialists, general practitioners, nurses, registrars, workers), to the ministry office (epidemic cases are sent from the doctor directly).
- FR13: The system shall allow the hospital manager to send notifications to registrars, doctors, and health officers.
- FR14: The system shall allow the hospital manager to receive notifications from the ministry employers.

## Non-Functional Requirements

- NFR1: The app should be in Arabic language.
- NFR2: The system shall require internet connection once to update the appointments' list at the first time, and to update notifications only.
- NFR3: The desktop app section shall be **less than 40 MB**.
- NFR4: The password shall be stored encoded and salted hashes.
- NFR5: All sign ups and logins require HTTPS encryption.
- NFR6: The system should be worked dynamically on any pc screen size.

# Use Cases Diagram

