

بسم الله الرحمن الرحيم

Code For Sudan Hackathon
Healthcare Sudan Project

SRS - Doctor Section

(Software Requirements Specification)

Content:

- ❖ Introduction.
- ❖ Scope.
- ❖ Definitions.
- ❖ Functional Requirements.
- ❖ Non-Functional Requirements.
- ❖ Use Cases Diagram.

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 doctor 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 mobile app: doctor section.

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.

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

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

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 should allow the hospital manager to add a doctor by entering:
 - name, phone number, password, and department.
- FR2: The system shall allow the doctor to login using phone number and password.
- FR3: The system shall allow the doctor to show his profile info.
- FR4: The system shall allow the doctor to update his password.
- FR6: The system shall allow the doctor to receive appointments the registrar account of its department.
- FR7: The system shall allow the doctor to show appointment's details and add deses and epidemic if there fields to the record.
- FR8: The system shall allow the doctor to add the diagnose to the citizen medical history if it has booked by his account and share the medical history with the doctor.
- FR9: If the doctor added an epidemic to an appointment, the system shall send its data to the ministry office of the same locality, or the general account of its state.
- FR10: The system shall add the diagnosed appointments to the hospital database to generate the report later.
- FR11: The system shall allow the doctor to receive notification from his hospital manager, or general notification from the ministry employee.

Non-Functional Requirements

- NFR1: The system shall be required internet connection only to login, refresh the appointment list, send the appointment to the hospital database, or send the diagnosed appointments by any epidemic to the ministry employee.
- NFR2: The mobile app section shall be **less than 40 MB**.
- NFR3: The password shall be stored encoded and salted hashes.
- NFR4: All sign ups and logins require HTTPS encryption.
- NFR5: The system should be worked dynamically on any mobile screen size.

Use Cases Diagram

