بسم الله الرحمن الرحيم

Code For Sudan Hackathon

Healthcare-Sudan Project

SRS - Citizen Section

(Software Requirements Specification)

Content:

Introduction

Healthcare Sudan is a project for Code For Sudan Hacathon. 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 user and the citizen 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: user and citizen 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 citizen to sign up by getting: name, phone number, password, birth date, medical history, state, locality, and address.
- FR2: The system shall allow the citizen to login using phone number and password
- FR3: The system shall allow the citizen to show his profile info.
- FR4: The system shall allow the citizen to update his password, state, locality, and address.
- FR5: The system shall allow the user to show medical advices those created by the ministry account.
- FR6: The system shall allow the user to show the emergency number to each hospital and call it.
- FR7: The system shall allow the citizen to book appointments for himself by entering: hospital, department, and doctor only before 2 hours from the clinic time.
- FR8: The system shall allow the citizen to book appointments for others by entering: name, gender, age, state, locality, address, hospital, doctor, and department, and the citizen's phone number will be sent as the phone number only before 2 hours from the clinic time.
- FR9: The system shall allow the citizen to receive notifications about his appointment if the doctor start working, stopped working, didn't come, or if the patient himself didn't come when his order did come.
- FR10: The system shall allow the citizen to receive general notifications those created by the ministry.

Non-Functional Requirements

- NFR1: The system shall not require internet connection to show emergency numbers, show old notifications, show lasts update of the medical advices, or fill the appointment info.
- NFR2: The internet connection should be required only when booking appointment specifically when pressing "add appointment", update profile info, update notifications, or update medical advices.
- NFR3: The mobile 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 mobile screen size.

Use Cases Diagram