SOFTWARE REQUIREMENTS SPECIFICATION

Hospital Management Application For Users

Introduction:

This is a Software Requirements Specification (SRS) for the Hospital Management System. It describes the functions, goals and tasks that the system can perform. This is used to describe the scope of the project and to plan for the system's design and implementation.

The following features are the high-level requirements that this system satisfies:

Hospital management: Fix appointments with doctors.

Ambulance service: use the services of ambulance.

Security feature: Make security call from your contact list.

The Requirements are classified into two categories:

- Functional requirements
- Non-functional requirements.

Non-functional requirements can be used to improve the functioning of the computer system, but not the management of the hospital as a whole.

Functional requirements, on the other hand, are requirements directly related to the hospital management.

The primary areas of concern are performance, security and user-interface.

1. Introduction

1.1 Purpose

The purpose is to describe all the requirements for the Hospital Management System. The following are some of the stake holders:

- users
- ambulance drivers
- front desk administrators in hospital

Users uses this application to make appointments with the doctors and also users can use security feature of the app in emergency situation. Ambulance services offered by this system to users is the another specialty of the system. Ambulance drivers have to be registered within the system so that they can reach their needers on time.

1.2 Scope

Users can use security feature, appointments and also the ambulance service of the application.

- In security feature they have to add any 5 relatives or friends contact numbers.in case of any emergency they can call these 5 members through this application in a single operation. Also with this operation their current locations are shared within the 5 members of this application.
- In this application the whole hospitals in a state are come under this application.so that the user can make appointments with the different doctors in different hospitals within the application.
- in case any accidents ,users can use the ambulance service of this application,so that the ambulance drivers in nearest place can have reach on time.

The intension of the system is the security of users, real-time hospital management and saves life of victims in case of emergency situation.

2. General Description

2.1 product

perspective

This Hospital Management application include the security feature ,hospital booking, and the ambulance services.

2.2 Product Functions

The system functions can be described as follows:

Registration:

users can register with their name,phone number,email account.

ambulance drivers are registered with their phone number email id and their location.

Security option:

To enable security option, add any 5 contact numbers of relatives or friends. Assure that those members in your contact should have this application. you can add members in your application with their consent .Locations shared by the victim can see only through this application.

Hospital management:

Users make appointments with different doctors with different hospitals in a state. Users who register with the hospitals can see the doctors list and take appointments. Users have option to register with the hospital, and with registration number user can fix appointment with doctor.

Ambulance service:

Users can call the nearest ambulance through this application.so that the time delay can reduce.

2.3 User Characteristics

The system will be used in the hospital. The user,ambulance driver and front-desk staff will be the main users. Given the condition that not all the users are computer-literate. Some users may have to be trained on using the system. The system is also designed to be user-friendly. It uses a Graphical User Interface (GUI).

User:

they can enable the security feature, create new registration in hospitals, see the doctors list present on that day, make appointments with doctors and call ambulance in emergency condition.

Ambulance driver:

They can register with app and they can see where the accident occurs in their nearest place. They can also have access the properties of users as they logged as user.

Front-desk staff in hospital:

They can read information from the users such as the new registration, booking made by the user. And their responsibility is to update the system with doctors whether the doctors are present or not.

2.4General Constraints

- The system must be delivered by deadline.
- The system must be user-friendly

2.5Assumptions and Dependencies

It is assumed that compatible computers will be available before the system is installed and tested.

It is assumed that the Hospital will have enough trained staff to take care of the system

3. Specific Requirements

3.1 Functional Requirements

Registration:

- User sign up the application with your phone number and email id.
- Ambulance driver sign up with phone number and other details.

Add participants to security option:

Add participants or friends contact list to the application with the permission of that members.

Fix appointments:

New user can register with the hospital. With registration number user can make appointments with the doctors.

Assign registration number:

Registration number for new users are assigned by the front-desk staffs in the hospitals.

Database:

- Database of the users including name, phone number, email id.
- Database of contact list with name and phone number,\.
- Database of appointment list in hospitals.
- Database of users with hospital registration number.
- Database of ambulance drivers with their name, phone number.

3.2 Design Constraints Database

The system shall use the MySQL Database, which is open source and free.

Operating System

The Development environment shall be Windows 10.

Android-Based

The system shall be a Android-based application.

3.3 Performance Requirements

3.3.1 : Response Time

The system shall give responses in 1 second after checking the patient's information.

3.3.2: Capacity

The System must support 1000 people at a time.

User-interface

The user-interface screen shall respond within 5 seconds.

3.3.3: Conformity

The systems must conform to the Microsoft Accessibility guidelines

3.3.4 Maintainability

Back Up

The system shall provide the capability to back-up of the Data

3.3.5 Errors

The system shall keep a log of all the errors.

3.3.6 : Reliability

Availability

The system shall be available all the time