

Preview of Healthcare Management System

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Abstract

The main goal of this paper to build software which is user friendly, simple, fast, and worthwhile. The objective of the software is to provide essential medical services online to the users. The purpose of introducing this system is to reduce the manual work at health centres. The software is used to manage the data of the number of beds and other components as well as to provide nearest hospital information to the user. Data will be easily updateable via admin panel only. The admin portal is accessible by administrator or the receptionist using the id and password. Only they can add or remove data from the database. Data can be retrieved easily. The data will be well protected and centralized. Blood bank and ambulance module is also included in the software.

Keywords-

Manual work; Healthcare; user friendly; medical services ; beds; updateable; centralized; emergency; Facilities; medical information ; specialist monitoring; corona virus

I. Introduction

In today's life finding the best hospital and the service is harder so in this situation the software called Healthcare Management System (HMS) is useful. The software includes four sections i.e., Bed availability, Blood bank, Ambulance service and Hospital information. In Bed availability user are able to see beds are available or not in hospital like ventilator bed, oxygen bed, general bed, etc. Blood bank section contains data of blood available in various blood bank with the contact number of the blood bank. In the Ambulance service there is a data of ambulance and their contact number so in emergency user can contact ambulance easily and Hospital information section contains the information of various hospitals with their service and information about doctors, facilities available in hospital etc. On one click user gets all information about nearest hospital, blood availability in blood bank, bed availability in hospital, etc.

II. Proposed System

The proposed system covers all the flaws which are in the existing system of medical care or health care system. The existing system comes with a non-co-operative patient and medical facility which is been directly recovered by the system propose purpose.

Purpose the “Health care Management System” comes with the 4 important modules

- 1.Hospital Search
- 2.Blood Bank
- 3.Ambulance Services
- 4.Bed Availability

Hospital services are the main and the most important services of the health care system this hospital module consist of an efficient way to search for the hospital which is required to patient and also provides with the option of the nearest hospital search option for the patient to have an easy access to the information of the health or medical care of the specific hospital which is an edge for the patients. The further module of the hospital search will provide you with the each and every medical information which will be a trump card to the patient requirement. This medical information will firstly include the reception counter of the hospital with the helpline and hospital emergency contact numbers with the address and hospital mail address further it will include the most vital part which is hospital profile which includes profuse details of the specialist and their treatments and surgeries carried out in the hospital and the various treatments performed in the hospitals by the Specialists as well as the generalist doctors.

The next module is silent part of the system which is blood bank. Our integrated system consist this feature of blood bank is the easiest way for a patient to take the facility of the blood bank this blood bank module will include all types of blood samples i.e. A+,A-,B+,B-,AB+,AB-,O+,O- this blood bank facility will include the number of blood samples available of a specific blood group and the specific blood bank facility with the contact number of the blood bank the data update and adding process of every module of the project will be done at the admin portal. This will make a very easy for the patient/person to access the information. The next module of our project is ambulance service, ambulance service will be an edge for this project by providing the essential ambulance service to the patient in need. Ambulance service will contain the data of all the available ambulance services near the patient this record of the ambulance available and not availability will be easily updated and added by the admin portal. The bed availability module is an vital module of this project in this and will be edge pandemic situations by providing the information of the bed availability in any hospital beds such as general bed, oxygen bed, ventilator bed, COVID-19 bed, emergency bed. This information will be easily to the patient at any time and situation.

III. Scope

Functions like finding nearest hospital, monitoring blood bank, etc. can be easily performed. The modules of the software are user-friendly and easy to access. In day-to-day life most of the people are busy in their work. Using software people don't want to go outside they will get all information on it. In the current situation of corona virus, the patients need beds in high quantity in the software the feature called bed availability provides the information about the beds available in hospital like ventilator bed, oxygen bed, general bed, etc. Using this feature people gets all updated information i.e. in which hospital how many beds are available.

IV. Literature Survey

The main role of the system is to register and store patients and doctors details and saves these details as and when necessary, and also to handle these details meaningfully. The data can be recovered easily [1].

This web application combines many features like nearest search, user login, doctor login, appointment etc. It is a develop for storing patients medical history and also search for nearest blood bank, medicals and hospitals [2]. This system contain the patients records with his disease history and reports. A patient can takings the appointments online and know the availability of the doctor [3].

V. Advantages

1. Provide easy and efficient way for a patient to search a specific hospital.
2. Patients can find doctors as per their department and book an online appointment based on the speciality using the contact number.
3. Easiest way to hatch any medical related treatment in a single click.
4. The data can be accessed from anyplace.
5. The information is available 24 hours.
6. Cost effective and efficient.
7. User friendly.
8. Simple to use.

VI. Disadvantages

1. Every time administrator have to add, remove or update the data.
2. Time consume while adding the data.
3. May be crashing problems occurs due to high load.

VII. Applications

1. Applicable for e-health care system.
2. Privacy and security of healthcare data.
3. Medical and clinical informative.
4. Data analysis.

VIII. References

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