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HELLO DOCTOR!

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ABSTRACT

Corona virus pandemic hit the whole world catastrophically. We are in need of “doctors & hospitals “more than ever. But while the Covid – 19 virus is spreading drastically, we can’t gather around or make any place crowded, especially hospitals which will spread the virus more and more. As many people are getting infected our health care system is experiencing a burden than never before. People are facing problems like unavailability of authentic information of medical resources and time to time treatment.

According to reports, many people are scared to visit hospitals amidst increase in corona virus. Thus, in this crucial time when everything is turning out to be online from Big Multinational Companies to small super market amidst COVID-19, so in this project we have tried to solve these problems by creating a website where user can see hospitals information like Number of beds availability, Number of operation theaters, Number of doctors and specialist doctors available in any hospital and many more. This website will also help to avoid unnecessary crowd in hospitals and will also help patients with minor problems get first aid at home. The website provides the facility to request and book an appointment for online consultations with doctors based on the need.

1. Introduction

"Hello Doctor" is one of the most important and crucial website in this pandemic.

Covid-19 pandemic has changed a way of everyone's life. It also taught us how hygiene plays an important role in our lives. During this, we understand the necessity of a clear and reliable health care platform. In such situations, visiting hospitals for basic illness can actually give invitation to a bigger problem. So, the main goal of this tool is to provide individuals a platform where they could seek medical help for non-critical problems without necessarily visiting hospitals in person resulting into decreasing the burden on healthcare systems and to increase healthcare capacity where it is most limited. It provides health advice by experts just by sitting at home and helps to avoid actual visits for normal illness. Our proposed system aims to build an environment where various patients needing doctor can get help at their home i.e. consult doctors, send their images and reports, chat with doctors, tell them their issues and discuss remedies. It also consists of doctors and patient login panel where both will login to the system and see patient requests for consultations. The system then schedules those requests and serves them to doctor one after another. This allows doctors to chat with patients and discuss their problems.

In addition to this, the web application will be consisting of all the necessary information regarding the hospitals. Such as specialist doctors, timing for the visits, availability of resources and critical equipment's (such as beds, ventilators, ICU, Ambulances etc.) and provides a means for online appointment booking.

The system will prove helpful to urgent cases that do not reach hospital, for emergency cases that do not have doctors in area, during late night emergencies and also for preliminary examination of patients. It will also be helpful for those who need regular check-ups. It enables patient to have a second opinion.

This helps to save clinical resources, prevents high number of patients grouped together in waiting rooms and divert the patients from serious emergency patients.

2. Methodology

Modules:

A. Admin

The first module will be the Admin Module whose key responsibilities are as follows:

- Maintaining the Dashboard
- Viewing the Registration of both Doctor and Patient
- Add Doctor Information after verification of the documents uploaded.
- Add and update Hospital Details.
- View Contact and Application.
- View chats between the Doctor and Patient. Admin will be able to view from its respective Admin Panel.
- Provide 24*7 assistance.

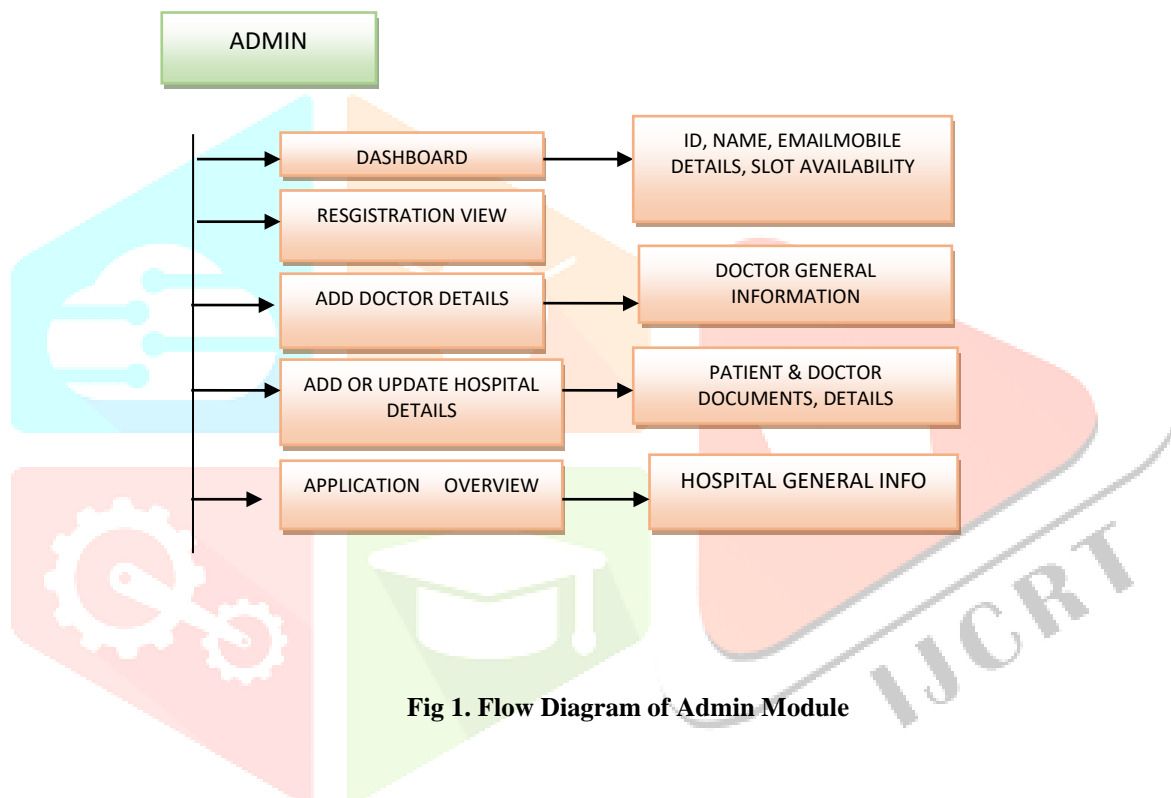


Fig 1. Flow Diagram of Admin Module

B. Patient

The second module will be the patient module where patient can login via username/password or sign up by filling upon the necessary credentials such as Enter Name, Email-id, Mobile no etc. Patient can view the availability of number of doctors, beds, OTs, emergency wards etc. He/she can view or edit his/her user profile at any given point of time. Patient can book appointment in Book Appointment Section by selecting the necessary Appointment Date, Time Slot and filling up a reason at the end. They will have the facility to upload all the necessary documents such as images, MRIs and different reports. Patient will be able to chat with any chosen doctor after getting the appointment slot.

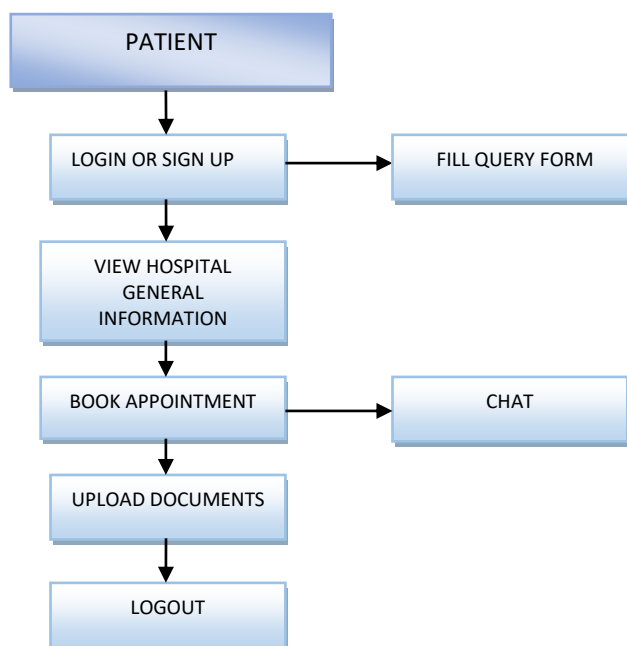


Fig 2. Flow Diagram of Patient Module

C. Doctor

The third and the final module is designed for the Doctors. The Doctor can upload his/her documents to register in Hello Doctor's Portal. He/ She can do so by creating his/her profile in the doctor's portal and after verification of the required documents and qualifications, he/she will be approved. The doctors can view their daily schedule and also be able to view the patient's uploaded documents and complaints which would be visible in their respective user profile. Doctor will communicate via chat box with the patient and upload the necessary prescription to be viewed by them.

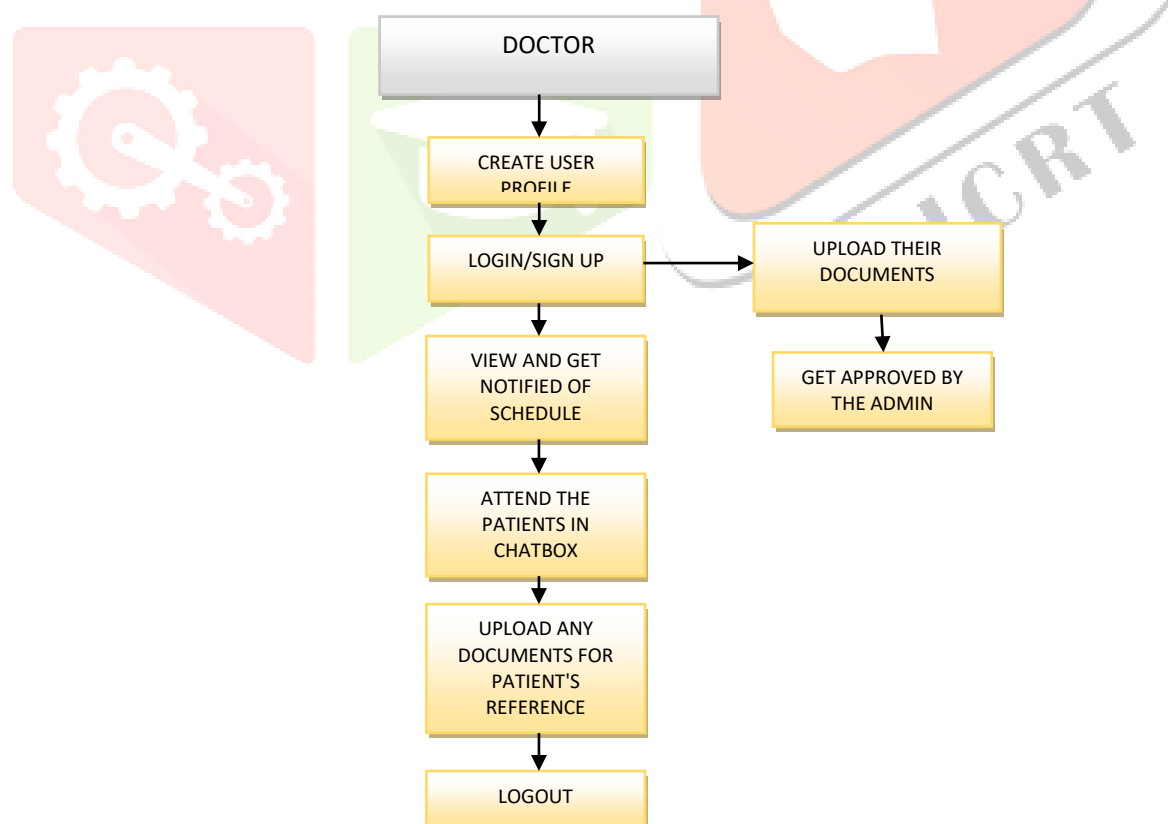


Fig 3. Flow Diagram of Doctor Module

3. Future scope

- The project can be expanded for multiple hospital and doctors so that it won't be limited to a particular hospital and any patient and any doctor can use it from anywhere thus eliminating the limitations of region or choice.
- Data analysis for health will also be possible with this. Government can have centralized data of patients and their medical history which will be very useful for managing pandemic like situations and planning ahead of it to tackle spread of diseases. Police investigation can have centralized data.
- Upload Published research papers (for Doctors).
- Upload reference surgical videos in Online Doctors Portal (for Doctors).
- It will send automatic reminder emails or messages to patients who are having appointments.
- It will be able to host its own video meetings between doctors and patients and in between doctors.
- Book an appointment for home consultations.
- Online pharmacy (E-pharmacy).
- Information centre. All the information of diseases will be available to increase the awareness among the people.

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