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Online HealthCare System

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Abstract: Today`s technology offers many online services in almost every field. From those fields Healthcare is one of them. However, in this pandemic it is very difficult to obtain the consultation with the doctor for every health problem so to overcome this problem the Online Healthcare System can be implemented. This Web application contains features like manage patient details, doctor`s detail, schedule appointments, view reports, online payment and some additional features like videos for "yoga and exercise" and a "Chatbot", Which is a type of software that used to redirect the conversation between human beings and users which will help people to provide details according to their queries in a productive way.

I. INTRODUCTION

The Online Healthcare System is a way of obtaining medical care for the problem with minimum hospital visits. It gives us advantages like booking Appointments, consulting a doctor, viewing test reports right from the comfort of our homes without actually going to the hospital. The Online Healthcare system provides us with an option for different users using the website like Patients, Doctors, Administrator, Pathologist, Pharmacist, etc. As a Patient we can get solutions from looking for a doctor for treatment to booking appointments for getting a check-up, viewing reports of the tests performed, getting consultation of doctors about the report and present health status, booking medicines according to the prescription suggested by the doctor and also getting yoga, exercise suggestions from the doctors. Once registered the patients can get benefits of all this function from anywhere anytime from any device that they login to. As a doctor this project helps them to keep a record of their patients with all their medical details and their current status with their reports and prescription. As an administrator user, they will be able to manage doctors, patients' data along with all other data like appointment, pathologist, etc. As a pathologist, they can login, see the test request, upload the test reports after completion of tests. As a pharmacist they can view prescriptions about medicines requested, and ship with the necessary medicines to the patients. Another feature of this project is chatbot integration which provide instant 24*7 solutions to all the queries that the users of the website have regarding any process. The last module is physical activity where a patient gets access to videos and other content according to their doctor's recommendations and practices it.

II. RELATED WORKS

A variety of literature is available related to the healthcare system. A few of the related work is discussed below.

The paper entitled "Hospital Management System Using Web Technology" describes an idea of such a web-based platform that eliminates the need of paper prescriptions in the hospitals that proposes e-medical management which will increase the efficiency of patient's management, schedule management of the doctors and give universal access to the patient's data anywhere in the hospital.[1]

Another paper "Hospital Management System" describes the purpose of developing a computerized hospital management system that will upgrade the quality of information management and efficiency of the hospital employees.[2]

The paper entitled "Design and Implementation of Hospital Management System" describes the system and customized application on the hospital management system. The management of the patient will be very much easier, efficient and less time consuming. It will be easy for the doctors and patients to access the records and reports that are already present in the system. The patient details are already present in the database while registration so there is no need to fill a form during emergency cases. It will help to reduce many manual efforts, time taken and cost.[3]

The above papers are giving the overview of literature surveys related to the healthcare system. By implementing this system, the management of the patients will be much easier, efficient and less time consuming. It will be very much easier, efficient and less time consuming. It will be easy for the doctors and patients to access the records and reports easily.

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III. PROBLEM FORMULATION

The existing system is efficient but:

In case of any inquiry user have to visit the hospital and have to wait in a queue which is a time-consuming process: Ex: If a patient wants any inquiry related to their problem either they have to call or visit the hospital. However, this is not convenient. Because of this people are not getting information easily.

People are not getting all the facilities related to their treatment. Ex: In case a patient is prescribed for some physical activity like yoga and exercise they have to search for different places for that which is not convenient for everyone.

IV. PROPOSED SCHEME

In this work, we are working to implement a system which will help the user to obtain medical care without visiting the hospital. The system provides option for different users using the website like patients, doctors, administrator, pathologist, pharmacist. If the user is login as a patient, then they get solution from booking appointment of getting a check-up, viewing reports of the tests performed, booking medicines according to the prescription suggested by the doctor like yoga and exercise suggestions from the doctors. Doctors can view appointment lists, can upload prescriptions and can view reports.

In pathologist module the staff will view the test request from the patient and upload reports. In pharmacy module, the staff can view the prescription of the patient and shipping with the necessary medicines to the patients. Chatbot is another module which will provide 24*7 solutions to all the queries of the user.

Another and most important module is the admin module where the administrator can manage all the data of the application.

This proposed system will offer an engaging way to communicate with patients and provide them with timely information. Integrating a physical activity module into the website will be really beneficial for the users as it gives them an option to opt for the feature without actually going anywhere. They will also not be required to search for different websites or places for their consultation regarding any issues on this matter.

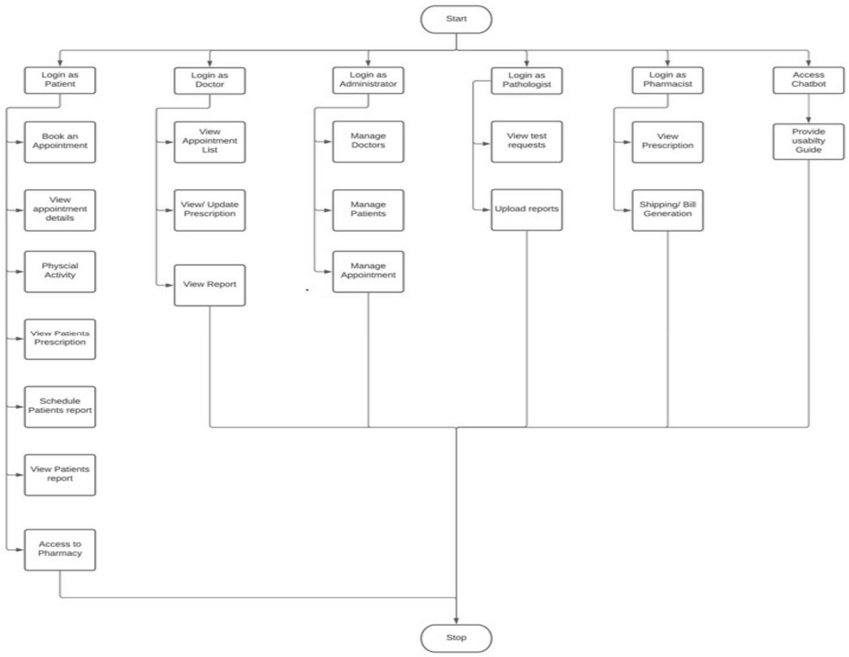


Figure 3.1: Flow diagram

V. CONCLUSION

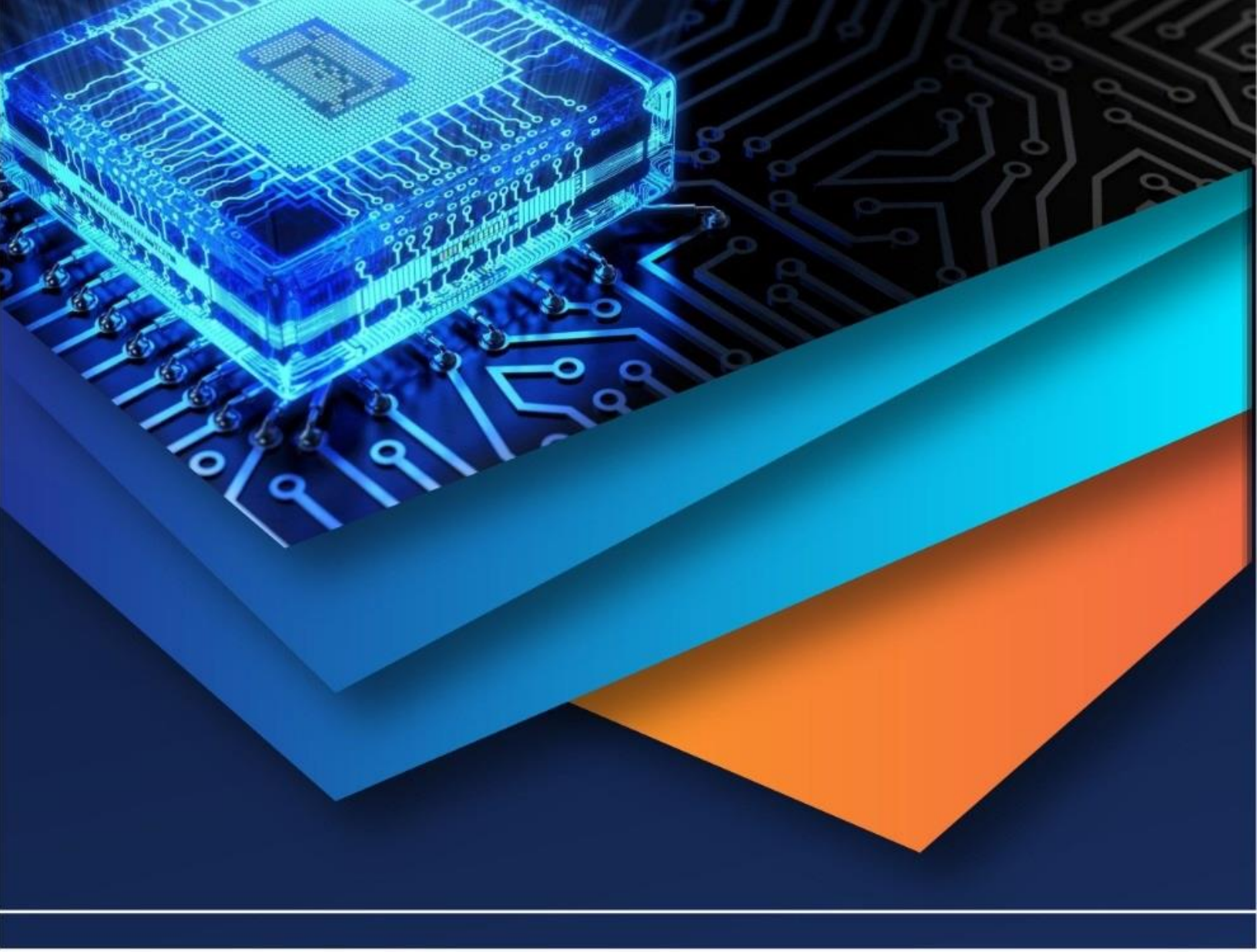
In this paper, Healthcare can have potential to address the social determinants of health through universal access and through its contribution to empowerment. Implementation of an online healthcare system project helps to store all kinds of records, provide coordination and user communication, implement policies, improve day to day operations, arrange the supply chain, financial and human resources and market hospital services.

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