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TimetoCare

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Abstract: *The goal of the Healthcare Application's extension, the Health Care Website, is to offer convenient online medical support in a seamless manner. This website, which is made to meet the demands of physicians, patients, and healthcare ecosystem providers, guarantees prompt, precise responses in this digitally sophisticated age.*

A number of tools are available on the Health Care Website, such as a symptom analyzer that matches users with appropriate medical specialists or makes prescription recommendations depending on symptoms entered. Given the growing number of people using smartphones, the website guarantees that these facilities are always accessible.

Important features include different account kinds to protect data security and a medication reminder to assist users in following their prescribed amounts. The website makes sure by utilizing the MERN (MongoDB, Express.js, React, Node.js) stack.

Keywords: *MERN stack, Web Application, Health-care, Appointment Booking System.*

I. INTRODUCTION

Greetings and welcome to the Health Care Hub, a flexible platform that aims to make users' encounters with healthcare easier. Previously called the "Health Care Application," the Health Care Hub is an Android program that is easy to use and is designed for people in a variety of jobs, including insurance agents, doctors, patients, and hospital staff. Easy Registration: Using a variety of methods, such as email addresses, Facebook accounts, Google accounts, or cellphone numbers, users may easily register and log in. Accessibility for all is ensured by this inclusive approach.

Customized Interfaces: The Health Care Hub offers different user interfaces for physicians and patients, maximizing the experience according to individual requirements.

Symptom Analyzer for Informed Care: The Symptom Analyzer helps physicians make more informed decisions about patient care by helping them better grasp their patients' concerns.

Easy Registration: Using a variety of methods, such as Facebook, users may easily register and log in.

Interactive Communication: Users can communicate with healthcare providers in real time by using file attachments, voice and video calls, and chat. This promotes smooth interactions between patients and doctors.

Introducing the new Appointment Cart function, which enables customers to easily book appointments with the doctors of their choice. Users may easily apply for appointments, choose a time that works for them, and browse through the available slots. Come join us on the Health Care Hub, where compassion and technology collide to create a healthy future. Make your appointments with ease and enjoy convenient access to comprehensive healthcare.

II. REVIEW OF LITERATURE

A. Existing Systems

- 1) *1mg [2]:* Online pharmacy 1mg accepts orders for prescription drugs. Place all medical orders. When a person orders drugs online, they receive a 20% discount. Find substitutes for medicines at this page. Health Information: One can get individualized, practical health advice from knowledgeable doctors to assist lead a healthy life. Medicine Side effects: Be aware of how a medication affects people and any negative effects. Order Lab Tests: Order all necessary medical tests and receive a discount. Free online consultations with the top doctors in India. Online doctor connections are open to all users.
- 2) *Practo [3]:* Book doctor appointment easily: Booking doctor appointments is the easiest on Practo. Consult online with a doctor: Consult a doctor online for medical advice on Practo app. Chat with a doctor instantly in a private consultation. Set medicine reminders: The app will remind the user when to take their medicines. Keep your medical records handy: User can upload their medical records on Practo app to keep them safe, secure and easily accessible from anywhere in the world. Order medicines to your doorstep: User can order medicines online from the app and get quick delivery at their home or office.
- 3) *Lybrate [4]:* Consult a Doctor is Medical platform connecting over 10 million users to over 100,000 top Doctors and pathology labs. Find doctors: In the following Specialties to consult online or to book an appointment.

- 4) *JioHealthHub* [5]: Secure Storage and Sharing: All user health-related files, such as prescriptions, medical bills, lab results, and other documents, are only accessible to them, and they can safely share them with their family and carers members who have access to the info but cannot modify it. Users have strict control over whether their shared information is used for other purposes or is given to a third party without their consent. Anywhere Accessibility: Users' data is saved in the cloud and can be accessed from any location and using any device as long as they have their secure login credentials. Simple and automated Any health information a user uploads, clicks on, or receives from affiliated healthcare providers or other users is organised into categorised folders.
- 5) *DocsApp* [6]: It is an online Doctor consultation app. Ask your Health or Medical question on app. User can upload health reports and affected areas photos for the Doctor in private chat. Get diagnostic Tests at user's home. User's sample will be collected from home and diagnostic reports will be delivered on the App.

B. Existing Research

In healthcare organisations around the world, information and communication technologies (ICTs) are frequently utilised to identify the specialised hospitals closest to the patient's location. Numerous healthcare applications for Android smartphones have been created to help patients and those who care for them save time and money. A tool that finds the closest hospital with the desired medical speciality within a five-kilometer radius has been developed.[7].

Android-based smart health consulting systems assist patients in scheduling hospital appointments, contacting doctors, and finding doctors who match their symptoms [8].

On Click, Dr. A patient can use an Android application to find the closest hospital and schedule an appointment based on the doctor's availability. In the event that a patient forgets to schedule an appointment, an appointment alert message might also aid [9].

Electronic commerce and e-wallets make it possible to send money quickly and easily over the world. [10]. Study of Google Firebase API for Android uses Firebase to analyse, store, authenticate, and retrieve data [11].

III. OBSERVATION

Comparison between the situation with and without using Health Care Android Website

IV. SYSTEM FLOW CHART

	Without use of Website	With use of app
Contact Doctor	Search for a doctor then get an appointment and then get there through transport and then get consultation.	This application allows the patient to connect to the doctor from any location.
Symptom Analyzing	One may not easily find out the health problem with the symptom the one is going through	With the help of symptom analyzer one can easily find out the health problem
Buy Medicines/ Medical Equipment	One has to go to medical shop to get the medicines or medical equipment.	One can get the medicine or medical equipment with prescription anytime at door step by ordering online.
Blood Donation	A person comes to know about a blood donation camp only when advertised or being passed through the camp.	User can easily find out blood donation camp with simply searching through application
Save our Soul	At the time of emergency it becomes	User can easily call an ambulance

	difficult to get reach on time at hospital.	just by pressing a button.
Monitor Patient Status	The Doctor needs to visit the patient at regular intervals to be updated.	Doctor can monitor the patient's live health status through this application anytime.
Form Filling at Hospital	Long queues, which consumes time that might also been used for looking after patient.	This Application saves time by filling the form online.

Fig - 1. System Flowchart of 'Health CareWebsite.

The "Health Care Android Application" system flowchart illustrates the data flow within the application. We can manage our profiles, identify and contact doctors and hospitals, analyze a patient's symptoms for a certain disease, find blood at local blood banks and hospitals, and receive notifications if blood is not found. The user has access to an E-Wallet for ordering medications and making payments, as well as a Save Our Soul (SOS) button.

V. ADVANTAGE & DISADVANTAGE

A. Advantages

- 1) Virtual Doctor Consultation: Get professional guidance and support by accessing online medical consultations.
 - 2) Symptoms Analysis: Use our all-inclusive analyzer tool to pinpoint probable symptom reasons.
 - 3) Ordering medications online: Easy access to a wide variety of health products and medications from any location.
 - 4) Electronic Form Submission: Use our integrated e-form filling technology to submit hospital forms quickly and easily.
- Read articles on health and life-saving first aid, which can offer crucial assistance before professional medical help arrives.

B. Disadvantages

- 1) Internet is required for running this application.
- 2) Firebase being flexible, No SQL database needs strict rules for data integrity to be implemented.

VI. CONCLUSION

Our research leads us to the conclusion that health care projects will enable us to receive medical assistance more rapidly. A symptom analyzer is used to examine the patient's symptoms, allowing physicians to treat patients more successfully. This program incorporates a feature that enables direct communication between the doctor and patient in addition to providing a chat room service. Receiving emergency medical care can be made simpler by using an Android health apps. The doctor can monitor the patient's condition with the aid of this program. Authentication ensures the security of the data belonging to the doctor and patient

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