

DocEzee-Telemedical Website (Web Development)

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Abstract - The Doctor-Patient appointment System by the name “DocEzee” is a website that is helpful for Patients as well as Doctors. In the existing system, all the activities are done manually, so it is expensive and time-consuming. In our proposed system, people can choose different types of Doctors according to their requirements and can have a better look at their health by using our user friendly website easily. The Patient data will be stored in a secure database. The common people or Doctors can log in to their account through the website itself and update information or requirement according to their needs. In the proposed system, Patients can view doctor details such as specialization, location, availability etc. The Doctor-Patient appointment system also helps to reduce the time and effort in taking doctor appointments. Also, this system makes a Patient obtain suitable Doctor for their medical issue throughout their treatment and maintain their health.

Keywords — Appointment, Health, Telemedical Website, Specialized Doctors, Treatment.

I. INTRODUCTION

Healthcare is a crucial form of necessity in our day to day lives but with evolving technologies, it can be easier to make such facilities accessible to all patients regardless of their age.

In recent years, the internet has become an indispensable source of information for individuals seeking medical advice and guidance. With the increasing availability of online medical resources, people are relying more on the internet to make informed decisions about their health. This trend has led to the rise of medical websites, which offer a variety of information and services related to health and wellness.

The aim of our project is to provide efficient and quick medical care as in appointments by the comfort of staying at home. This research paper will contribute to the ongoing discussion about the role of medical websites in the dissemination of medical information, and provide insights into how users can best utilize these resources to

make informed decisions about their health and disease consultancy.

II. LITERATURE REVIEW

In recent years, several Doctor-Patient appointment systems have been introduced. DocEzee is one of the important systems in any view. The software modules are comprehensive and complete with all relevant details of Doctors, Patients and their medical history verified by the Official Admit in our proposed system. In this project, common people can choose Doctors of their choice and have an accurate treatment over the health issue. The system eases the process of appointment by saving time and effort of common people.

It is also argued that DocEzee offers Doctor an opportunity to promote themselves to a wide range of people through our portal.

The suggested website is broken up into various sections, the first of which provides a thorough overview of system-related technology and principles. The second portion is the system need. This section contains a detailed description of the hardware environment and the system implementation needs. The third portion is about to implement these functions, both foreground and background functions are included, if these needs are clear. The fourth component of the system design process is dedicated to detailed database design, which contains relationships between entities as well as the properties and relationships between the individual tables. In this chapter, numerous classes are highlighted, with a focus on software implementation. Last but not least, system testing is a critical step in the development of DocEzee. Numerous test cases of various types are arranged in the test phase to guarantee the system's accuracy.

III. METHODOLOGY

A. TOOLS / TECHNOLOGIES USED

- XAMPP
- MySQL

- Apache
- Hosting
- HTML
- PHP
- CSS

B. WORKING

Our website is used by patients looking to place appointments with respected and verified doctors. Our interface has a login template with three options that is admin, doctor and patients where the patients can sign up and choose a doctor according to their grievances and go ahead and book an appointment with the respected doctor. The doctor that is entered into the system can approve or reject appointments and if approved he/she can provide medical prescriptions and or discharge reports if connected to a hospital.

As for the admin which will be one of our group members will handle the doctor and patient records and keep track of database.

IV.LOOP HOLES IN THE EXISTING SYSTEM

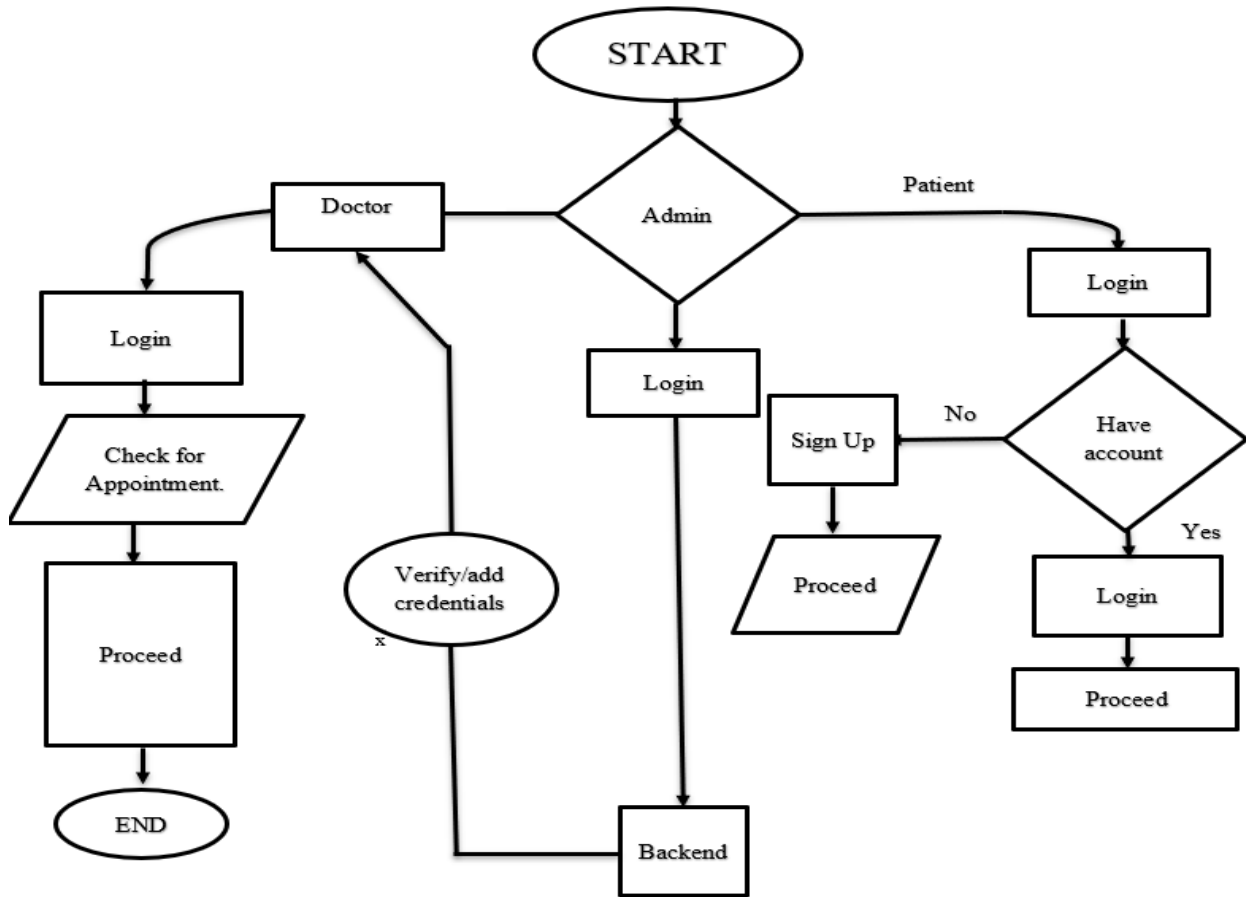
- Security Risks: Online medical systems are vulnerable to cyber-attacks and data leaks that can expose personal and medical information of patients, putting them at high risk of identity theft and other forms of malpractice and frauds.
- Technical glitches: Suppose if the website goes down or crashes this could lead to patients not being able to place appointments or the appointments being placed at wrong time and place causing technical inefficiencies.
- Inadequate communication: The online medical system can lack communication between patient and the doctor which can cause misunderstandings and lead to wrong medications and places the patient at a high risk of side effects.
- Inefficient appointment scheduling: The online appointment system may not have the ability to schedule appointments efficiently, leading to long waiting times and cause inconvenience, frustrating the patient

V.PROPOSED SYSTEM

The Patients will log in to our system through our website. Patients can see all the details of the particular Doctor through the website. The website offers some features like trust, safety and reliability. It helps common people to get the appointment on one click as well as all other information related to doctor on one click.

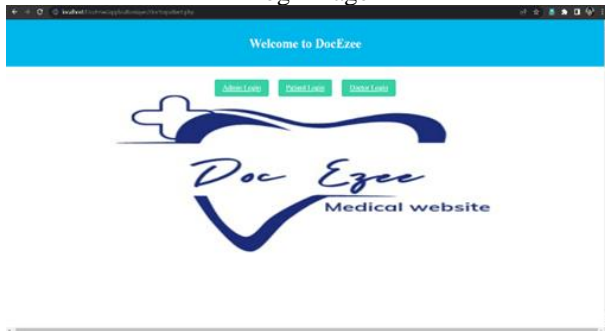
For implementing the Doctor-Patient appointment system, we need to follow some particular methodologies. Certain steps need to be performed for a successful process. Those steps are as follows:

- Homepage.
 - Login Page
 - Registration.
 - Request Appointment
 - My Requests
 - Browse appointment requests
1. Home Page:
 - Here we have given a brief introduction of our website
 2. Login Page:
 - A page where Patient or doctor can log in to the app.
 - If he/she is already a user then he/she can request labour or browse labour requests.
 3. Sign Up:
 - If he/she is not a user then they have to create an account by entering their name, creating username and password with required patient details.
 4. Request Appointment:
 - Here a patient can request for appointment of specific Doctor.
 5. My Requests:
 - Here a Patient can see the requests he/she has put with its details.
 6. Browse appointment Requests:
 - Here Doctors can see the requests which have come to them and connect with the Patient directly.

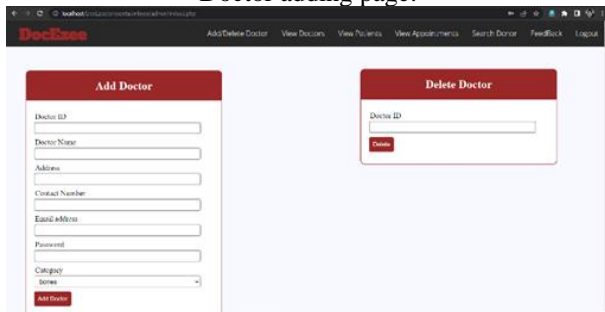


VI.RESULTS

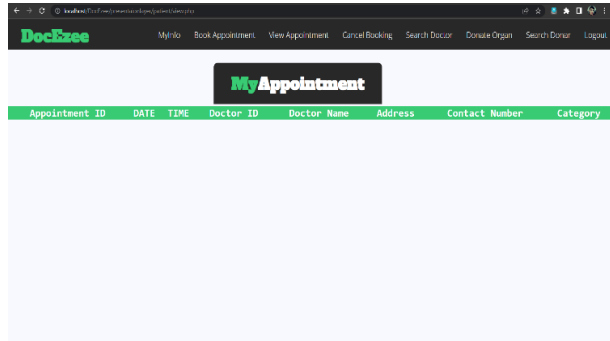
Login Page



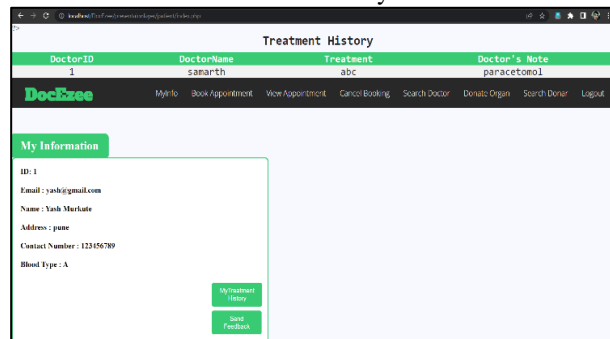
Doctor adding page:



My appointments:



Patient History:



Future Scope

Adding Video chat service for Patients to communicate effectively regarding their health issue with Doctor. Involving Chat Bot for the interaction with patients. Adding Subscription features for the regular patients on our website.

VII.CONCLUSION

“DocEzee” has made a user-friendly, attractive and easy to use interface for taking online appointment of preferred Doctor and has also given the Doctors an easy medium to connect with patients directly. With the help of our website we have reduced the time needed by people to search for specialized Doctors. We have aimed at resolving issues like Communication Gap, Unavailability and Unreliability for the people while at the same time- Increasing reach of Doctors through online portal.

VIII. ACKNOWLEDGMENT

This project report would not have come into reality without the able guidance, support and wishes of all those who stand by us in the development. We wish to give our special thanks to our guide Prof. Gauri Gaurav Kulkarni, Prof. Mahajan and Prof. Sachin Sawant for their valuable guidance and unending support despite a very busy work schedule for suggesting improvements and tweaks in our project. The cheerful spirit they radiated all the time fuelled our desire to excel in the work that we had undertaken.

REFERENCE

- [1] Contract Labour Hiring System; Volume: 08 Issue: 06 June 2021, p-ISSN: 2395-0072, e-ISSN: 2395-0056; Avinash Vishwakarma, Sushmita Duraphe, Shoeb Ansari; International Research Journal of Engineering and Technology (IRJET).
- [2] A Study of Contract Labour Management System In Ltd. Companies; Volume 22, Issue 10, October – 2020, ISSN: 1007-6735; Prof. CharulataKulkarni, Dr. B.P. Bhairat; Journal of University of Shanghai for Science and Technology.
- [3] Resource Management In Construction Project; Volume 10, Issue 5, May 2020 ISSN 2250-3153; K.A.Karthick Raja, Dr. K. Murali; International Journal of Scientific and Research Publications.
- [4] Issues And Problems of Contract Labourers In India; Volume 7, Issue 2, May 2020 (E-ISSN 2348-1269, P- ISSN 2349-5138); Hanumantha G, Dr. Pavitra R.

Alur; International Journal of Research and Analytical Reviews (IJRAR).

- [5] Industrial Relations And Labour Management And Productivity: The Imperative For Sustainable Development In Nigeria; ISSN: 2689-5072 Volume 4, Issue 4, 2021 (pp. 57-67); Ojo Olayinka Olabimpe and Adedayo Adedeji Matthew; British Journal of Management and Marketing Studies.