International Journal of Scientific Research and Engineering Development-– Volume 7 Issue 2, Mar- Apr 2024
Available at www.ijsred.com

RESEARCH ARTICLE OPEN ACCESS

Medic Blog: Empowering Connection Between Patient And Doctor

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Abstract:

Medic Blog, a collaborative project from a team at VIT-Bhopal University, aims to transform healthcare information delivery and also seek either for the collaboration or continuation of the work where we left. Prioritizing reliability and accessibility, Medic Blog presents curated medical content authored by seasoned professionals, initially focusing on cancer-related topics. Beyond being an information repository, Medic Blog fosters a supportive community where users engage in discussions and seek guidance. Supported by an intuitive chatbot, Medic Blog strives to empower individuals on their health journey with timely assistance available 24/7.

Inspired by the growth of social media platforms like Instagram, Medic Blog seeks to replicate their success in user engagement. However, its healthcare-centric approach distinguishes it, ensuring the accuracy and relevance of shared information. With a focus on user privacy and content authenticity, Medic Blog aims to establish a trusted platform for health-related discussions. Through user engagement metrics and feedback mechanisms, Medic Blog continually enhances its offerings to better serve its community.

Keywords **— User Engagement,Content Authenticity,Privacy Assurance,Continuous Enhancement**

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I. INTRODUCTION

Welcome to Medic Blog, our platform dedicated to reshaping how you find and understand healthcare information. Our goal is straightforward: to offer trustworthy resources in an accessible format, empowering you to navigate your health journey with confidence. In today's digital landscape, the internet is saturated with medical websites. However, finding reliable information can be

challenging, particularly when it comes to your health. That's where Medic Blog comes into play.

At Medic Blog, we understand the vital importance of credibility in healthcare information. That's why we've assembled a collection of blogs authored by experienced doctors, starting with a focus on cancer. These blogs are crafted in straightforward language, ensuring they're easy to comprehend without overwhelming medical terminology. But our commitment to reliability goes beyond content selection.

Medic Blog isn't just a repository of articles; it's also a supportive community where you can connect with others facing similar health challenges. Through dedicated interfaces, you can engage in discussions, share experiences, and provide support, fostering solidarity among users. Additionally, our intelligent chatbot is available to assist you whenever you have questions or need guidance. Whether you're seeking information about a specific condition or simply want someone to talk to, our chatbot is here to help, 24/7.

Looking forward, Medic Blog aims to broaden its scope to cover a variety of diseases and health conditions. We're dedicated to expanding our content library to address diverse topics, ensuring that you can find information relevant to your specific needs. Whether you're seeking reliable information, looking to connect with others on a similar health journey, or simply aiming to take control of your health, Medic Blog is here to support you. Welcome to Medic Blog – where knowledge meets care, and you're never alone in your health journey.

II. Methods

A. *Study Design*

Designing and developing of Medical platform includes many states. First one is to understand the designing which involves what modules does we intend to add at initial phase, then second it involves designing which was done in StarUML, then third phase starts which includes development in that we had used many languages and software, like HTML and CSS for designing the website interface then including JavaScript for designing the user interface which enables the developer to create dynamic and creative user interface, then further we used the software like VS code and Apache Veins for development.[1]

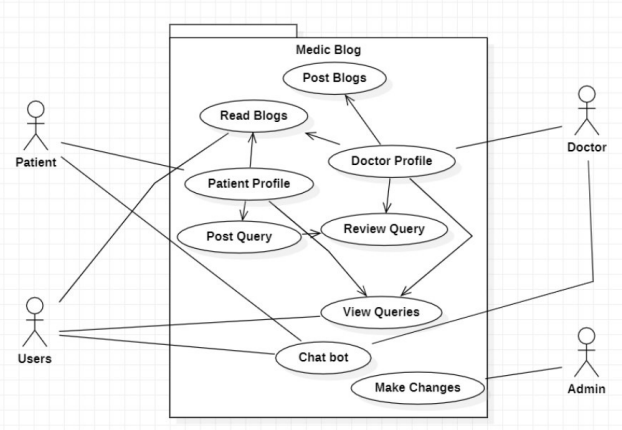

Fig: 1 StarUml Diagram representing the initial working design of the site

B. *Platform Functionality*

Medic Blog involves the doctor-patient interface. So basically both doctor and patient logins the website(keeping the identity anonymous) and certain unique ID will be provided now both patient and doctor can scroll through various blogs present. If any patient wants to share their review then the website involves the patient profile where he can share their experience or questions for their disease (initially considering only cancer and heart diseases) any interested doctor can share their

review for the patients query. And this queries will be made access for everyone to see, so that the reviews can help others as well.[1]

c. *Outcome Definition and Measurement*

1. User Engagement:

- Measurement: We'll keep an eye on how many people use the platform regularly, how often they log in, and how long they stay online.
- Outcome: If more people are using the platform more often, it means they find it helpful and interesting.

2. Interaction with Content:

- Measurement: We'll see how often people read, like, share, and comment on the blog posts.
- Outcome: If people are interacting a lot with the blogs, it shows they're finding the information useful and engaging.

3. Connecting Patients with Doctors:

- Measurement: We'll check how often patients and doctors talk through messages on the platform.
- Outcome: If patients and doctors are talking more, it means the platform is helping them communicate better.

4. User Satisfaction:

- Measurement: We'll ask users how much they like using the platform, if it's easy to use, and if it's helpful.
- Outcome: If users give positive feedback, it means they're happy with the platform and find it useful.

5. Empowering Patients:

- Measurement: We'll see if patients feel confident sharing their experiences, asking questions, and getting support.
- Outcome: If patients feel more confident and supported, it means the platform is helping them take charge of their health.

6. Quality of Doctor Reviews:

- Measurement: We'll see if doctors' reviews are helpful, accurate, and kind when they answer patients' questions.
- Outcome: If doctors give good reviews, it means they're helping patients well and giving useful advice.[2]

By keeping an eye on these things, we can see how well the platform is working and make it even better for everyone who uses it.

D. *Data Source*

"Medic Blog features a collection of blogs sourced from various reputable sources. Additionally, our team collaborated with experts in different medical

fields to provide their insights. Given our primary focus on cancer, our outreach efforts targeted specialists in this area. Despite their busy schedules, we successfully engaged with 2-3 doctors. One notable expert is Dr. Manoj Pandey, currently serving as the head of the cancer department at BHU (Banaras Hindu University). Dr. Pandey has made significant contributions to cancer research, with numerous published papers in the field. We sought and obtained his permission to utilize his resources, ensuring the authenticity of our content by obtaining his signature as a token of approval."

Fig: 2 It is representing the sign collected from the Dr. Manoj Pandey(head of cancer department BHU) showed interest in our project and was ready to share the information required in our project.

E. *Study Population*

Medic Blog involves mainly patients and healthcare professionals. After talking with both patients and doctors we considered that the identity of both patients and doctors should be kept anonymous as for doctors it includes the safety measures and as for patients they want their identity to be kept private. [3]

III. PROPOSED SYSTEM

3.1 SYSTEM DESIGN AND ARCHITECTURE

The MedicBlog Website will be implemented in an online platform. The website will try to cover the following:

FUNCTIONAL REQUIREMENTS

No.	*Title*	*Description*
1.	Sign Up	Any user must be able to create an account. An email address and a password are required to create an account. An account is required to use most of the application features, including joining an organization.
2.	Sign In	The registered users must be able to sign into their account using their registered email address and password.
3.	View Blogs	A user must be able to view blogs.
4.	Patient Profile	A patient must be able to login in their profile where they can post reviews.
5.	Doctor Profile	Doctors must be able to review the posts by patients and approve or disapprove accordingly.
6.	Delete a post	A post can be deleted by the user that posted it.

NON-FUNCTIONAL REQUIREMENTS

No.	*Title*	*Description*
1.	Web Application	Application will be used on the Online platform.
2.	Free of charge	The website should not cost any money to use
3.	Regular Updates	The website should receive regular updates
4.	Readily Available	The website will be readily available, and even if it does crash, it should be back up in a day.

TECHNOLOGY AND RESOURCE REQUIREMENTS

No.	*Title*	*Description*
1.	Html, CSS, Javascript	Front-end Languages used to design and function the website.
2.	Spring Boot	A framework of java used to create the back-end of the website.
3.	MySql	Database used in the website.
4.	Apach NetBeans	Software Platform used for backend

System Architecture

Medic blog's system architecture is designed to create a user-friendly and informative platform that seamlessly connects healthcare professionals, curated medical content, and users seeking reliable health information. The architecture encompasses:

Frontend Interface: Developed using modern web technologies, prioritizing intuitive navigation and visually appealing design to enhance user experience.

Backend Infrastructure: Utilizes scalable technologies for user authentication, data processing, content management, and interaction with the database, ensuring reliability and efficiency.

Database Management: Employs a robust DBMS to store user data, blog content, research papers, and community discussions, with a schema designed for data integrity and scalability.

IV. Discussion

Just as Instagram became everyone's favorite place to share moments, Medic Blog aims to be the ultimate destination for health knowledge. While Instagram connects people through images and comments, Medic Blog connects patients and doctors through blogs and chats about medical topics. But Medic Blog is special because it focuses solely on health matters, ensuring that every piece of information you find is accurate and useful. It's like having a trusted doctor friend who's always there to provide reliable advice and support whenever you need it on your health journey.
Medic Blog shares similarities with popular social media platforms, but it stands out by prioritizing trust and privacy. Unlike platforms where anyone can post anything, Medic Blog carefully selects and verifies medical information to ensure its accuracy. Moreover, it places a high value on protecting user privacy, allowing individuals to ask questions or share their experiences anonymously. By upholding these principles, Medic Blog aims to become a

trusted hub where users can learn and receive support on health matters, fostering a sense of empowerment and community among patients and doctors alike.[4]

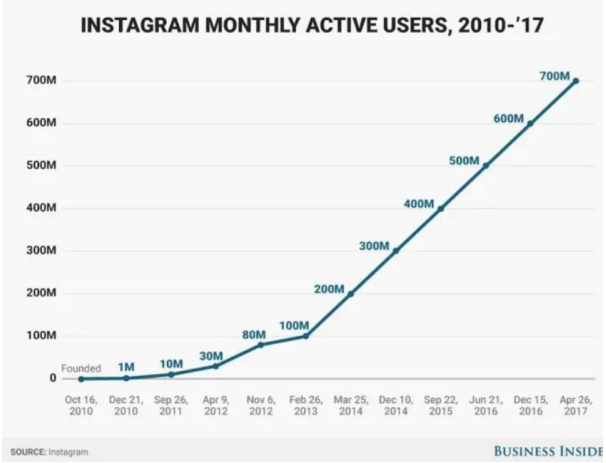

Fig : 3 Shows the growth of instagram in previous years[5]

V. Conclusions

Medic Blog stands out as a dependable source of health information, like to a trusted friend in the digital realm. While aspiring for the popularity of platforms like Instagram, its primary focus remains on safeguarding your health. By ensuring the accuracy of every piece of information and prioritizing user privacy, Medic Blog strives to be the destination where you can seek reliable health advice without hesitation. With its supportive community and unwavering dedication to authenticity, Medic Blog has the potential to become the preferred platform for all your health-related needs. And for further information one can visit the Github link provided [6] it has the code snippet along with it a final project report would be uploaded

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