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HOSPITAL FINDER APP

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ABSTRACT

This abstract presents a comprehensive overview of a multi-tiered healthcare management system, catering to the administrative, hospital, doctor, and user segments. The system is designed to streamline healthcare operations and enhance accessibility for all stakeholders. For administrators, the system offers functionalities like secure login, enabling them to manage hospital information, including adding new hospitals and viewing existing ones. Additionally, they can maintain a database of blood donors. Hospitals can log in to the system, add doctors to their roster, and view patient appointments, promoting efficient healthcare delivery. Doctors can access the system to view their appointment schedules and update appointment statuses in real-time, ensuring effective patient management. Users, on the other hand, can register and log in, enabling them to find nearby hospitals and view available blood donors within their vicinity, promoting timely healthcare access. This healthcare management system aims to bridge the gap between healthcare providers and patients, enhancing the overall healthcare experience and accessibility for all involved parties.

Keywords: Bed Availability, Hospital Finding, Appointment, Blood Donors.

I. INTRODUCTION

Patient satisfaction has been proven to be one of the most valid indicators of the quality of care. Analysis of patient satisfaction data is in demand by many health-care providers. Most health-care providers, from doctor's offices to clinics and hospitals, collect patient satisfaction surveys to evaluate their various services and patient experience. For improving patient satisfaction, issues of health care provided at the hospital level and the factors that originate those issues from patients' point of view should be discovered. Therefore, survey data should be either manually analysed by examining each possible pattern in the data set using conventional methods or an unsupervised methodology is needed to do the analysis with least amount of human interaction. Such methodology should get the satisfaction survey data, find patterns that are repeated among patients' demographics and their satisfaction level in different fields, validate the patterns and compile them into a set of recommendations to help hospitals improve satisfaction within various patient communities. This methodology is a hybrid unsupervised clustering-labelling method, which finds associations between various levels of patients' satisfaction and demographics. The associations are validated by using standard

Problem Statement:-

Healthcare management is a complex and critical area, often plagued by inefficiencies, inadequate accessibility, and disjointed information. Patients struggle to find suitable hospitals and blood donors, while hospitals and doctors encounter challenges in managing appointments and resources. This project addresses the existing problems in healthcare management by providing a comprehensive solution. The project offers an integrated appointment management system, streamlining the scheduling process for both patients and healthcare providers. Patients can easily book and manage appointments online, reducing wait times and improving the overall patient experience. Healthcare providers benefit from optimized scheduling, reducing no shows and maximizing the efficient use of resources. The project includes a geospatial hospital and blood bank locator, empowering patients to easily find nearby healthcare facilities and blood donation centers.

Existing method:-

The information about the hospitals to the user based on public comments. This is achieved through natural language processing approach using sentiment analysis involving three factors namely, polarity, subjectivity and intensity. Polarity is used to determine the category (positive, negative, neutral) of emotion in a given word. Subjectivity refers to the personal feelings, views or beliefs.

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II. METHODOLOGY

The proposed healthcare management system envisions a comprehensive, integrated platform that revolutionizes the healthcare landscape. It offers secure access for administrators to manage hospitals and blood donors, while hospitals can efficiently handle doctor appointments. Doctors can seamlessly manage appointments and update statuses, ensuring real-time information. Users will benefit from a user-friendly interface that allows registration, easy login, and access to information on nearby hospitals and available blood donors within a 150-mile radius. This system will bridge the existing gaps in healthcare management, providing an efficient, transparent, and accessible solution for all parties involved, ultimately enhancing the overall quality of healthcare services.

Admin:

Administrators, through a secure login, gain the power to manage healthcare facilities efficiently. They can effortlessly add new hospitals to the system, view and update hospital information, and maintain a database of blood donors, ensuring a comprehensive healthcare network. Upon completing their tasks, administrators can securely log out.

Hospital:

Hospitals access the system through their unique login credentials. They can seamlessly add doctors to their staff, monitor and view patient appointments, and log out after ensuring effective hospital management.

Doctor:

Doctors log in to view their appointment schedules and provide real-time status updates, simplifying patient management. management. After performing their duties, doctors securely log out.

User:

Users, registering and logging in, enjoy easy access to nearby hospitals and available blood donors, promoting timely healthcare access. They, too, can securely log out after their search, ensuring privacy and security

III. MODELING AND ANALYSIS

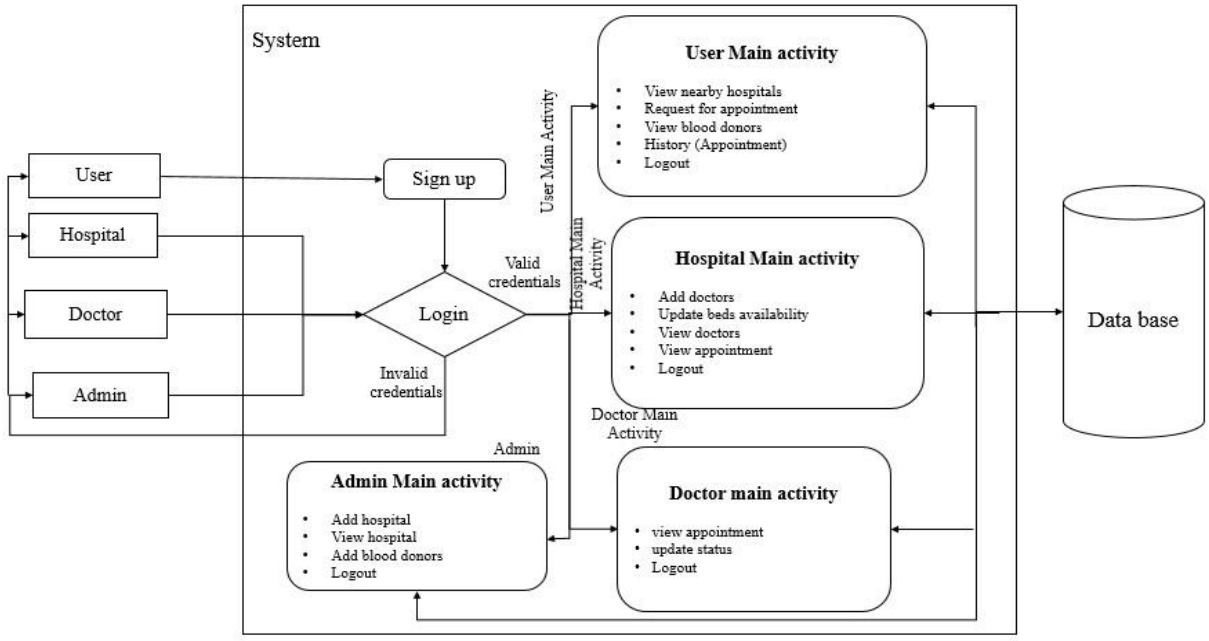

Figure 1: Working of App

IV. CONCLUSION

In conclusion, the development of the integrated healthcare management system represents a significant leap forward in addressing the existing challenges within the healthcare sector. This project aims to revolutionize administrative, hospital, doctor, and user interactions, ushering in an era of enhanced efficiency, accessibility, and transparency. By streamlining processes and providing real-time information, the proposed system will

greatly improve the overall healthcare experience. It is not merely a technological innovation but a humanitarian endeavour, contributing to better patient care and more effective healthcare administration. With this system, we move towards a future where healthcare services are seamless, userfriendly, and readily accessible to all, promoting the well-being of society. Hospitals access the system through their unique login credentials. They can seamlessly add doctors to their staff, monitor and view patient appointments, and log out after ensuring effective hospital management.

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