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ONLINE MEDICAL DATA STORAGE

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ABSTRACT

In recent years, desktop application have been widely used in healthcare system, such as hospital and patient monitoring. Wireless medical data networks are more vulnerable information can stored on cloud networks. A lot of module work has been done to secure wireless medical networks. The existing solutions can protect the patient data during manual paper case sheets, but cannot store the inside record where the administrator of the patient database. In this paper, we propose a provide the online case sheets provide to patient using server. The main contribution of this paper is securely distributing the patient data in multiple data servers working on k-map clustering system store the multiple data partitopning system and security provide various patients data.

KEYWORDS: cloud network, patient data privacy, k-map clustering system.

INTRODUCTION

Medical data storeis a field in which accurate record keeping and communication are critical and yet in which the use of computing and networking technology lags behind other fields. Healthcare sysrems and patients are communication with computers, and provide the patients case sheets, even though they agree that accurate record keeping and communication are essential to good healthcare. In current healthcare, information is conveyed from one healthcare professional to another through paper case sheets or medial data communication. For example, number people working and using android phone and internet this system very helpful accessing online data another healthcare centers. The patient carries the prescription to the pharmacy, waits in line to give it to a pharmacist, and waits for the pharmacist to fill the prescription. To improve the existing system now this system using helth care record stord online cloud networks and provide suggestion, this system can using three tire architecture perform multiple operation.

GOAL AND OBJECTIVE
- Integrate best practices and solution provide.
- Working and using three tire architecture using shearing data one location to another location.
- Multiple data store using k-map clustering method.
- Patients help of case sheets for treatment providing for another doctors.
- Provide security on case sheets.
- Solve health care management issue and provide the best suggestion.
- Doctor store multiple patients data and easily provide that suggestion help of case sheets.

PROBLEM STATEMENT
Now this paper working on providing online case sheets and now this paper store the multiple data on server. This paper using that cloude server data storage and use three tire architecture. Health care system using K-map clustering method this can easily handling multiple partitioning data and provide security sensitive case sheets. This paper can remove manual write paper work and case sheets. This paper working on cloud base technology usefull that online shearing data.

EXISTING SYSTEM
➢ The existing system is manual.
➢ The manual system is more error prone.
➢ It is very costly.
➢ Immediate response to the queries is difficult and time consuming.

➢ Difficult to maintain record and more paper work is required.
➢ Report generation is difficult.
➢ The system is not secured.
➢ More men power are needed.

MATERIALS AND METHODS
ARCHITECTURE

Like most of healthcare applications with wireless medical data storage network, our architecture has four systems as follows like a doctor, patients, admin, and medical. A wireless medical data storage network which senses the patient's body and transmits the patient data to a patient database system. A patient database system which stores the patient data from medical data storage and provides querying services to users (e.g., physicians and medical professionals).

A patient data access control system which is used by the user (e.g., physician) to access the patient data and monitor the patient. A patient data analysis system which is used by the user (e.g., medical researcher) to query the patient database system and analyze the patient data statistically. There may be a middleware between the wireless medical data storage network and the patient database system. If so, the role of the middleware is simply forwarding the encrypted patient data to the database system.

In our model, the patient database system is composed of multiple database servers. We assume
that all data servers are semi-honest, often called "honest but curious". That is, all data servers run our
protocol exactly as specified, but may try to learn as much as possible about the patient data from their views of the protocol. In addition, we assume that at least one data server is not compromised by attackers. For simplicity, we assume that the number of data servers is three. In fact, it can be any number
more than three. The architecture of our model with three data servers can be shown in Fig 1.
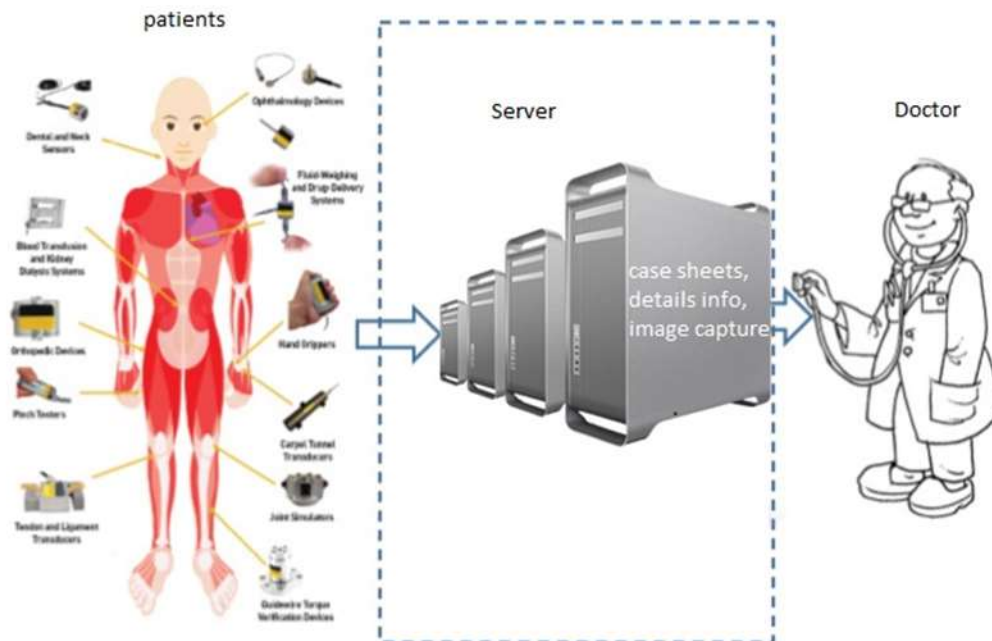
Fig 1. Patient and Doctor architecture.

The security requirements for our model include:

▪ Data collection security: In the wireless medical sensor network, each medical sensor can securely send the patient data to the distributed database system.

- Data store security: In the distributed patient database system, the patient data cannot be revealed even if two of three data servers are compromised by the inside attackers.
- Data access security: In the patient access control system, only the authorized user can get access to the patient data. The patient data cannot be disclosed to any data server during the access.
- Data analysis security: In the patient data analysis system, the authorized user can get the statistical analysis results only. The patient data cannot be disclosed to any data server and even to the user during the statistical analysis.

CONCLUSION
In this paper, we have investigated the security and privacy issues in the medical data storage collection, storage and queries and presented a complete solution for privacy-preserving medical data storage network. To secure the communication between medical case sheets and data servers.

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