

Patient's Medical History Provider

Apoorva Mishra¹, Rumana Haldar¹, Moiz Katheriya¹, Mohammed Motorwala¹, Priya Pati²

B-Tech, Department of Computer Science and Engineering, Parul University, Waghodia Road, Limda, Gujarat, India¹

Assistant Professor, Department of Computer Science and Engineering, Parul University, Waghodia Road, Limda, Gujarat, India²

ABSTRACT

In this paper we are discussing about a system that is Patient's Medical History Provider, which can be used by any person, who have been, enrolled themselves to this system. We are still stuck up to old traditional method for maintaining patient medical history i.e., on paper. This system is used to provide E-record of patient's health data instead of paper record. The proposed system will maintain patient personal information i.e., patient name, blood group, address, etc. and also their health information i.e., previous consultation, medication, specific allergies, etc. are kept. Patient's medical history provider is a system, which is based on website. This system will use unique ID to access data stored on this system.

Keywords : Medical History, E-Record, QR Code, EMR, Information System

I. INTRODUCTION

In India most of the hospitals still uses the old method that is manual paper work for maintaining patient's medical records. Logically it is not feasible to maintain those paper records for so long. The purpose of this system "Patient's Medical History Provider" is to manage and maintain patient health information in an effective and efficient way. Because this system provides many advantages over the manual paper work. The proposed system will work effectively by reducing time to access the data and the burden of maintaining the paper records. This system can be very useful for the patient where they can get their personal information of a so that they can refer to their medical history in any emergency or non-emergency situation to avoid delays and to lower down the risk for any critical injuries or deaths.

II. LITERATURE REVIEW

To get the greater understanding and knowledge about how to add, store, manage, update data from the system using any unique I.D. We have gone through several research papers. We list some of the papers below with briefly.

In Jill Patel et al. paper, the proposed system over here is an android app which provides and maintains an access to patient's current and past history i.e. medications, specific allergies, etc. Additional features include updates about progress of the patient, encryption of the private reports for confidential diseases also has been provided. And for accessing this system for medical data of a patient is done by QR code scanning with the help of smartphone or any intended device. This system not only enhances process efficiency and cut costs, but also save lives by preventing harmful medical errors. And only the authorized medical personnel in charge will be able

to modify or update a patient’s medical data. Since, nowadays every personnel carry Smartphone's, so the system will be an improvement to the traditional system. [1]

In Geylani Kardas research paper, a healthcare information system is developed based upon smart card. The smart card is used by the system for personal identification and for transferring health data and provides communication of data by virtue of a distributed protocol, which is especially developed for this study. Two health care software modules are applied that run on patient and doctors smart card respectively. Furthermore, the personal information as well as basic health information about the patient is also added to patient smart card. Doctors use their own smart cards to be authenticated on the system and to access and update data on patient cards. [2]

The Sibusisiwe Dube's paper aims to assess the ability of the QR code to provide security to patient's medical information during transit maintaining confidentiality, integrity and availability at the desired target within the hierarchical composition of the health delivery system in Zimbabwe. We also recommend a safe and affordable information transferring method that guarantees the delivery of complete, accurate and well-documented patient medical records. [3]

In Lijun Pan et al. In China, EMR has been mainly utilized in urban general hospitals, while being considerably underdeveloped among the primary care medical providers such as local clinics and community hospitals, which accounts for over 93% of all medical institutions in china. Small-scale clinics are incapable of distinguishing the complicated disease classification because of the limited medical facilities and usually there is no in-house patient. Therefore, the existing EMR systems are not suitable for small-scale health centers due to the complexity of system operations. Here, we propose a compact EMR system targeting at primary care centers to fulfill the needs of small-scale clinics and facilitate clinical research. [4]

An EMR system may enhance the ability of physicians to complete information intensive tasks but can make it more difficult to focus attention on other aspects of patient communication. Further study involving a controlled, pre-/post-intervention design is justified. This study presents a focused report about communication patterns associated with using either an electronic or paper-based medical record in a sample of outpatient encounters. Although some of the communication behaviors of the EMR physicians may be a function of EMR use, others probably reflect styles established before they began using the EMR. [5]

TABLE-I

Sr no.	Title	Journals	Methodology	Summary
1	QR Code based android app for healthcare	IRJET	Data storage and processing using qr code	To store patient’s detail in form of e-record instead of paper record to eliminate overhead in the paper work.
2	Design and implementation of a smart card based healthcare information System	Computer methods & program in biomedicine	Des, digital signature keys	To develop a system that uses Smartcard for personal identification & transfer of health data & provides data communication via distributed protocol.

3	QR Code Based Patients Medical Health Records Transmission: Zimbabwean Case	Proceeding of insite	QR Code, Encryption Techniques	Application of QR Code to secure & transmit the sensitive patient information from one level of healthcare delivery system to another.
4	A Compact Electronic Medical Record System for Regional Clinics and Health Centre's in China: Design and Its Application	IEEE	My SQL database and front-end website. ,Data Analysis	Here, they have discussed that how EMR is beneficial than paperwork. But this system is not feasible in small scale primary health sector because of many reason. So here they have discussed how to make this system effective in primary health sector also.
5	The Use of Electronic Medical Records.	Journal of the American Medical Informatics Association	Selective Search, Channel weighting generalized mean pooling (CWGMP)	An EMR system may enhance the ability of physicians to complete information intensive tasks but can make it more difficult to focus attention on other aspects of patient communication. Further study involving a controlled, pre-/post-intervention design is justified.

III.CONCLUSION

In this paper, we tried to report various techniques to save medical history of a patient and to use them for future purpose. We got to know many methodologies that are associated with smartcards. We get to design smart cards and health care information system base.

Cite this article as :

Apoorva Mishra, Rumana Haldar, Moiz Katheriya, Mohammed Motorwala, Priya Pati, "Patient's Medical History Provider", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 5 Issue 2, pp. 1148-1151, March-April 2019.

Journal URL : <http://ijsrcseit.com/CSEIT1952304>