

Mechanism to Manage Prescriptions

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Abstract: Mechanism to manage prescription is a web application which can be used in hospitals and medical stores for automating the manual operations involved in handling patient data and billing procedure.

Keywords: manage prescriptions

1. Introduction

In normal scenario doctors give prescriptions for patients in a piece of paper. Mechanism to manage prescription is a web application in which the patients need not have to carry the prescriptions given by the doctors with them to the pharmacy store. When the patient visits a doctor for some kind of test, the tests will be conducted in the usual normal manner. Once all the required tests and diagnosis is being performed by the doctor instead of writing the medicine prescription in paper, doctors can make use of this application for storing the required prescription by registering the patient in the application. Once this process is completed, automatically a token number will be generated to the registered patient and a SMS containing the Token number will be sent to the prescribed patient's mobile number. Now the patient just needs to orally tell the token number to the pharmacy store representative and he will collect the prescription details using the same application and provides medicine. The application can also be used for generating and printing the bill.

2. Literature survey

[1] Personal Health Records (PHR) are user-friendly, online solutions that give patients a way of managing their own health information. Many of the current PHR systems allow storage providers to access patients' data. Recently, architectures of storing PHRs in cloud have been proposed. However, privacy remains a major issue for patients. Consequently, it is a promising method to encrypt PHRs before outsourcing. Encrypting PHRs prevents health organizations from analyzing medical data. In this paper, we propose a protocol that would allow health organizations to produce statistical information about encrypted PHRs stored in the cloud.

[2] The protocol depends on two threshold homomorphic cryptosystems: Goldwasser-Micali (GM) and Paillier. We experimentally evaluate the performance of the proposed protocol and report on the results of implementation. Electronic prescribing (prescribing) is an important part of the nation's

push to enhance the safety and quality of the prescribing process. E-prescribing allows providers in the ambulatory care setting to send prescriptions electronically to the pharmacy and can be a standalone system or part of an integrated electronic health record system. The methodology for this study followed the basic principles of a systematic review. However, there have been significant barriers to implementation including cost, lack of provider support, patient privacy, system errors, and legal issues. Personal health record (PHR) systems are a constantly evolving area in the field of health information technology which motivates an ongoing research towards their evaluation in several different aspects.

3. Problem description

- Manual data entry of patients: To overcome this issue we use latest technology like database entry through application which is reliable all the time and available anytime.
- Manual appointment for patients: To overcome this problem we use online web based appointment system where he can enroll his information for appointment with doctor.
- Manual diagnosis of patient's test: This can be avoided by using latest technology automated system for testing patients.

4. Product description

This web application which can be used in hospitals and medical stores for automating the manual operations involved in handling patient data and billing procedure. In normal scenario doctors are used to give prescriptions for patients in a piece of paper. Using this application doctors can prescribe medicines to patients and the patients need not have to carry any prescriptions papers when they go to buy the medicine in the pharmacy store.

5. Screenshots

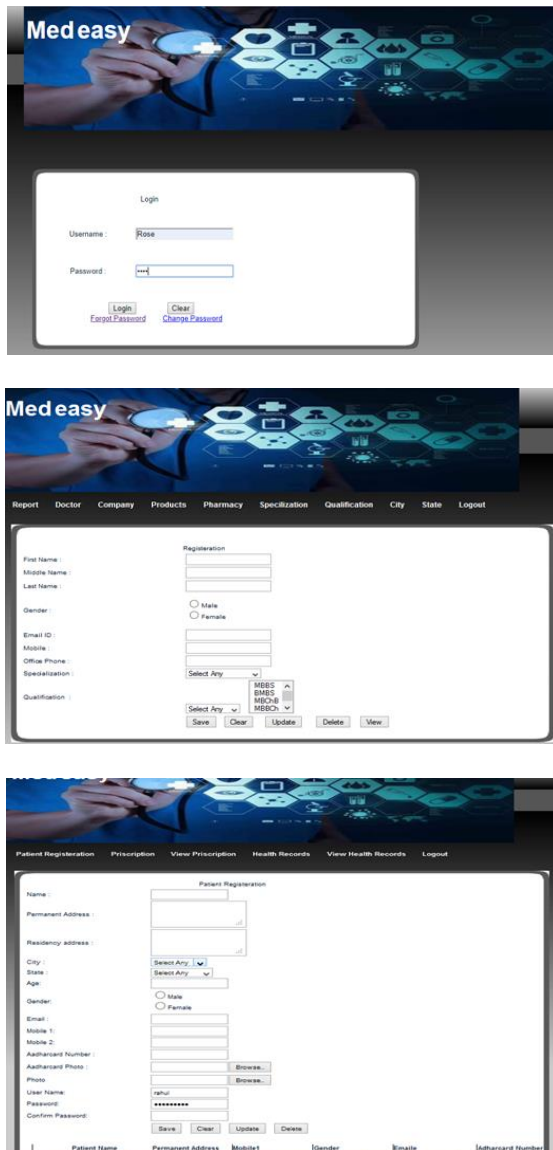


Fig. 1. Login and Dashboard

6. Conclusion

This online application is designed to facilitate a doctor and pharmacy store to automate the operation of obtaining the easy details given by the doctors so that the patients need not carry the prescriptions given by the doctors with them to the medical centre, further facilitating the easy access to the personnel. It also facilitates e-paper generation which is paper less technology. The application is made user friendly by providing simple and effective interfaces.

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