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Health Related Prediction and Fraud Detection in Health Care System using Data Mining

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ABSTRACT: Presently all the hospital functionalities are done manually. That is if a patient wants to consult a doctor he can visit their till his chance called. This is making the person very difficult. The main objectives of the system is help you to collect most of the information about Hospitality and Medical Services. The system is very simple to design and implement. The framework requires low framework assets and the framework will work in all designs.

KEYWORDS: Hospital, Medical, MySQL.

I. INTRODUCTION

A Hospital is a place where Patients come up for general check-ups. Our system maintains all the record of the patient. In this we store all the information of doctor, patient and also investigator. Every patient has known his prescription. Doctor's facilities, center and group wellbeing organizations can be altogether different from other workplaces. Human services frameworks are mind boggling and there are numerous things you have to think about sorts of doctor's facility frameworks, tolerant care, protection, social insurance suppliers and lawful issues. This instructional exercise will enable you to learn essential medicinal services ideas so you can be effective at work and comprehend the framework.

Background:-

Consultation by Doctors on Diseases.

Diagnosis for diseases.

Providing treatment facility.

Facility for admitting Patients (providing beds, nursing, medicines etc.)

Immunization for Patients/Children.

Motivation:-

Depict the contrasts between private, open and non-benefit doctor's facility frameworks.

Characterize sorts of patient care including essential care, forte care and crisis mind.

Clarify how protection functions.

Recognize sorts of private protection designs and open protection programs.



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Objective and Scope:-

The scope of the product is to build an online health care system with fundamental features along with advanced add-on features. The add-on features will empower the health care system and make it more efficient for its users. The features are as follows

Immediate retrievals of records:

In case of emergency or whenever required the user can immediately retrieve the record instead of going through various registers which results into inconvenience and wastage of time.

Information storage on centralized sever:

Confidential information will be visible to all the authenticated users only by using thumbprint recognition or UIDAI authentication. In this way we can achieve centralized server facility.

Prompt updating:

As one user record is updated it will be immediately altered and visible to all the authorized users.

Goal:-

The main goal of system is provide all information of user to take new treatment of doctor.

II. REVIEW OF LITERATURE

D. Dragu, V. Gomoi, and V. Stoicu-Tivadar [1], Manage and retrieve knowledge, and the inference engine has to infer based on that knowledge base. The healthcare computer systems widely work with databases and informational fluxes, but, besides the benefit of organizing information, they didn't solve some other issues of dealing with information, like rapid navigating it, or reducing its redundancy, or not losing its semantics

Robin Osborn and Chloe Anderson [2], In this system is improve integration and coordination of care for chronically ill patients with complex needs. Private patients both for outpatient and inpatient care. This process ensures that prices are not excessive.

Meng Tian, Jianqiang Li [3], Semantic and ontology to achieve the topic level privacy preserving search. In this paper, by exploiting the privacy medical queries, we propose a novel approach based on semantic and ontology to achieve the topic-level privacy preserving search. With the support of them, we first mine all the potential hierarchy and semantics from a user query and acquire sensitive terms relative to privacy policies automatically without training documents.

Chang L. Kim [4]. The ability to support multiple independent test cycles simultaneously is critical to patient care because each integration testing is designed to replicate real scenarios and mitigate any changes that can potentially be introduced to a live environment. The role of a systems integrator has evolved from primarily developing interfaces to also managing interfaces in multiple environments.

John Wiley [5], The Hospital management system software is user-friendly software. The main objectives of the system are which shows and helps you to collect most of the information about Hospitality and Medical Services. The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations.



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III. EXISTING SYSTEM APPROACH

Absence of quick recoveries: - The data is extremely hard to recover and to discover

specific data like-E.g. - To get some answers concerning the patient's history, the client needs to experience different registers. These outcomes in burden and wastage of time.

Absence of quick data stockpiling: - The data created by different exchanges requires some investment and endeavours to be put away at ideal place.

Absence of incite refreshing: - Various changes to data like patient points of interest or vaccination subtle elements of kid are hard to make as printed material is included.

IV. PROPOSED SYSTEM APPROACH

We maintain the all information of patient.

We propose the healthcare system for store all information of investigator. Investigator has check the policy for which patient is applied for policy or not.

Doctor maintains all information of patient. Doctor adds patient to view prescription.

The main aim of the system is which shows and helps you to collect most of the information about Hospitality and Medical Services The system is very simple in design and to implement.

Above system architecture admin add the doctor to the system and also view, update, delete. Doctor adds patient, prescription of patient. Investigator adds the policy. Patient apply for a policy and investigator cross check with the doctor.

V. EXPERIMENTAL SET UP

Let us consider the table 1 for the comparison of algorithm

1. Table

	Existing Algorithm	Proposed Algorithm
Accuracy	80	89
Recall	82	86
Precision	75	82

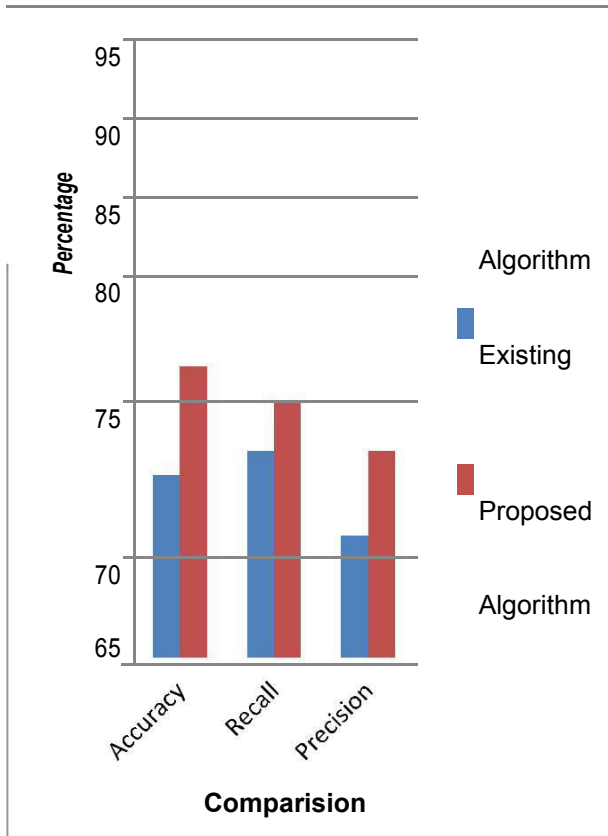
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2. Graph



Explanation:

Given graph show the comparison of existing algorithm and proposed algorithm with high accuracy.

VI. CONCLUSION

In this project, we maintain all record of patient in a previous treatment. Patient view this record any time when he goes to the doctor for checking. Doctor can add the prescription of patient and also add the bill of patients. That is if apatient wants to consult a doctor he can visit their till his chance called. This is making the person very difficult. The main objectives of the system is which shows and helps you to collect most of the information about Hospitality and Medical Services The system is very simple in design and to implement. The framework requires low framework assets and the framework will work in all designs. This data is spread among multiple healthcare systems, health insurers, researchers, government entities, and so forth.

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