



Healthcare Informatics And Analytics Framework Techniques

P.Bhuvaneshwari¹, S.Jeevanandhan², S.Kirubhakaran³, R.Naveenkumar⁴, S.Ramkumar⁵

¹Assistant Professor, ^{2, 3, 4, 5} Student(B.TECH)

Department of Information Technology, Muthayammal Engineering College(Autonomous), Rasipuram, Tamil Nadu, India.

bhuvaneshwari.p.it@mec.edu.in, sjeeva0308@gmail.com, s.kirubhakaran2000@gmail.com,

naveenramasamy1111@gmail.com, ramuramkumar13@gmail.com

ABSTRACT

Because of improvements in its medical and technological dimensions, the healthcare industry is continually changing nowadays. Using the best computer technology available, healthcare informatics has grown over decades. It has progressed from being only a database to a full source of data for analytics and research. The emergence of technology paradigms such as big data, the internet of things (IoT), complex even processing (CEP), cloud computing, and others are altering the way things were done previously. Healthcare informatics is at a crossroads in terms of finding a comprehensive solution to all of its problems by developing a single framework that may serve as a model for implementing a holistic healthcare informatics and analytics ecosystem.

Keyword:Complex Even Processing(cep),healthcare informatics

INTRODUCTION

Improvements in connectivity and calculation capabilities have emerged from advancements in the fields of IT, electronics, and networking. Body was made possible by the proliferation of tiny technologies. As the introduction of IT systems in the field of medical sciences, healthcare systems have gone through cycles of modernization. Cloud Computing Technologies assist in the collection, compilation, and analysis of health data to help manage population health and minimize healthcare expenditures (cc).

It can help with clinical decisions, specific patient diagnosis, and patient treatment. This research presents a Java-based personal health information management system. The general hierarchical structure of the system, which includes a health information management module, personal health data synchronization module, and full-text retrieval module, is designed on the Java platform to implement the system's functionality. The data encryption standard (DES) algorithm is used to encrypt and secure personal health information in order to improve security. The accuracy of health information acquisition, information security, and system reaction time are all examined. Two relevant investigations are compared to verify the robustness of the proposed health information management system.

LITERATURE REVIEW

"Healthcare informatics analytics and framework technique,c imthyaz sheriff, twiseef naqishbandi," according to the research journal. The attendance is recorded in this system utilizing a camera attached to the system that captures photos of students and employees, detects faces in the images, compares them to detected faces in the student database, and records their attendance. Then, using face detection and face recognition, the attendance will be automatically updated on the web page they created. The facial recognition process can be divided into two stages: processing before detection, which includes face detection and alignment, and recognition, which includes feature extraction and matching steps. The Raspberry Pi and Open-cvsoftware are also used to do picture normalization according to the system's requirements.

PROPOSED SYSTEM:

We propose a new strategy for dealing with patients. Having the accurate, correct, and verified information on doctors is critical since doctors are the ones who look after the patients, and if the doctors are not genuine, the patient could lose his or her life. One advantage of adopting this system is that the information saved in it cannot be lost because a backup of the data is created whenever the clinic management system's data is changed. As a result, the data stored in it is secure; no unauthorized users may access it, and data cannot be lost. This is all about adding the doctor module..

ALGORITHM

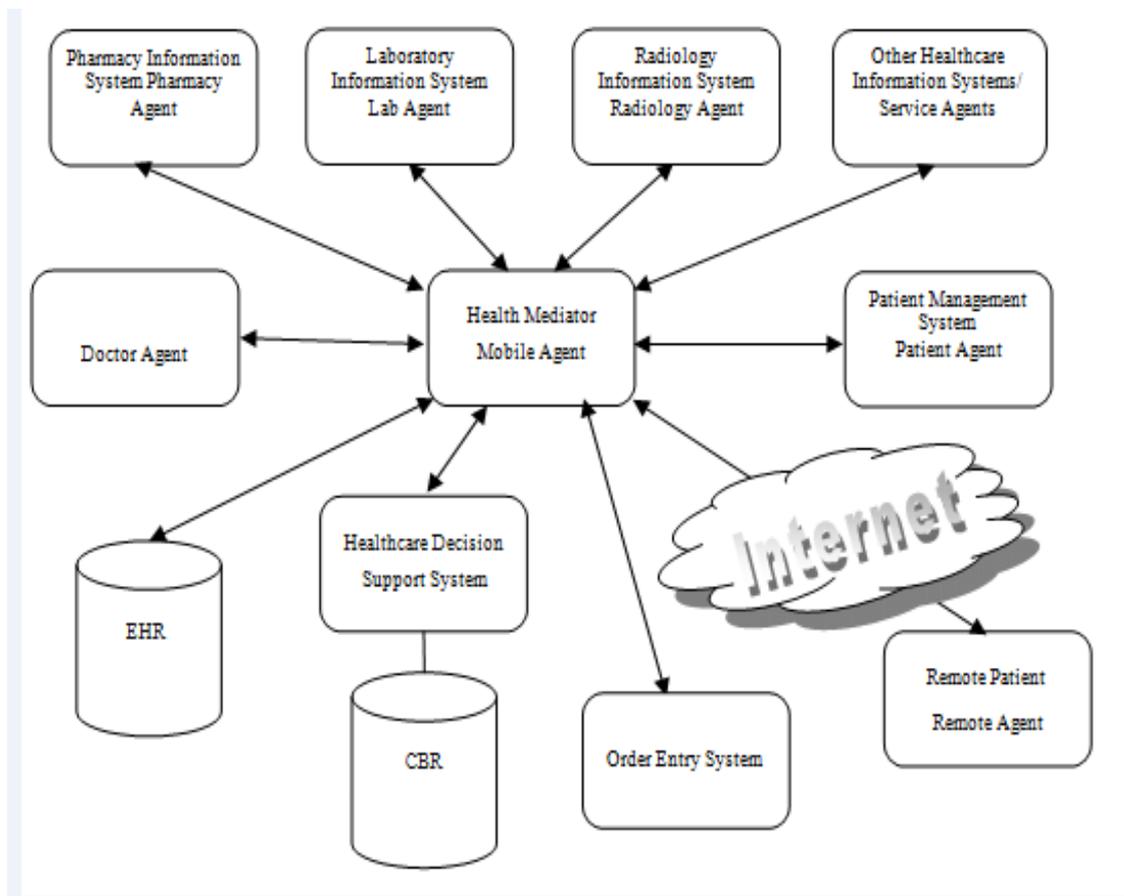
- CEP:

Complex event processing is an organizational tool for aggregating a large amount of data and identifying and analyzing cause-and-effect correlations between events in real time.

CEP compares continuously arriving events to a pattern and delivers information about what is going on.

ADVANTAGES:

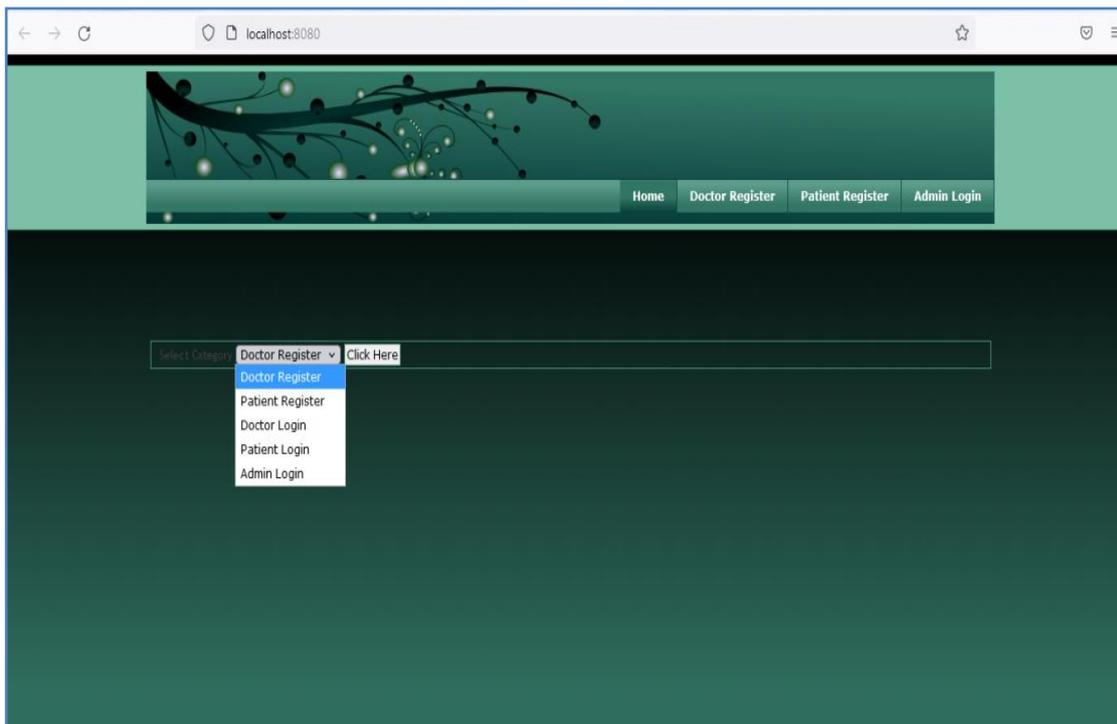
- Flexible and Efficiency.
- More secure
- Less time

SYSTEM ARCHITECTURE:


HARDWARE REQUIREMENTS

• System	:	Pentium Dual Core
• Hard Disk	:	120 GB
• Input devices	:	Keyboard,mouse
• Monitor	:	15 LED
• Ram	:	1GB

RESULT



localhost:8080/docreg.jsp

Home Doctor Register Patient Register Doctor Login Patient Login Admin Login

Doctor Register Here

Doctor-ID:	<input type="text" value="9777"/>
Username:	<input type="text" value="puni"/>
Password:	<input type="password" value="****"/>
Qualification:	<input type="text" value="MBBS"/>
Designation:	<input type="text" value="Doctor"/>
Email:	<input type="text" value="puni@gmail.com"/>
Mobile:	<input type="text" value="9087654321"/>
City:	<input type="text" value="Namakkal"/>
Date of Birth:	<input type="text" value="14/02/2015"/>
Salary:	<input type="text" value="70000"/>
Address:	<input type="text" value="Namakkal"/>
Gender:	<input type="text" value="Female"/>
Zipcode:	<input type="text" value="808057"/>

localhost:8080/patreg.jsp

Home Doctor Register Patient Register Doctor Login Patient Login Admin Login

Patient Register Here

Patient-ID:	<input type="text" value="411"/>
Username:	<input type="text" value="malar"/>
Password:	<input type="password" value="*****"/>
Blood Group:	<input type="text" value="b pos"/>
Disease Name:	<input type="text" value="Fever"/>
Email:	<input type="text" value="malar@gmail.com"/>
Mobile:	<input type="text" value="8907654321"/>
City:	<input type="text" value="Namakkal"/>
Date of Birth:	<input type="text" value="01-FEB-2022"/>
Age:	<input type="text" value="25"/>
Address:	<input type="text" value="Namakkal"/>
Gender:	<input type="text" value="Female"/>
Zipcode:	<input type="text" value="808057984"/>

IMPLEMENTATION

In Implementation it is very tough to record the manual report of the Health Information of the patient Accuracy of the patient detail may loss and handling of the record in the Hospital and Health Institute may difficult.

CONCLUSION

The Hospital Management System can be entered using a username and password. It is accessible either by an administrator .Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and make the data processing very fast. Administrative staffing is one of the significant drivers of high health care costs. Automating routine processes like patient flow management helps medical clinics and hospitals minimize their administrative expenses.

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