A Web Based System for Healthcare Application

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Abstract- *Health monitoring has become an important aspect in the person's day to day routine. As there is rise in modernization and change in technology the speed of human life has boosted thus the person cannot take care of his health properly and hence the maintaining a good health has become difficult. But by using certain fitness related application the health can be maintained properly. But the applications which exist in the market do not consist of all the modules in the single application so the solution for it is to design an application which might consist all the module and can be a single system so that people need not to have many different applications as the different modules which are related to the health. This system is used by the doctors, physicians, dietitians and their clients in their hospitals or clinics so that they can be easily get connected*

Keywords- Web Application, Physician, Clients, Reports.

I. INTRODUCTION

People are getting more health conscious in this era. This is due to the change in the climatic conditions which may or may not directly affect the human body, hence they always need to remain connected with their physician so that if ever they feel like uneasiness then they can directly concern with their physician. Every human being having their own particular type of lifestyle. Good Health is one type of energy to control physical and mental state of human body. Imbalance in these energies results in illnesses and different diseases. To measure health need to calculate health score. For maintaining health and prevent from any diseases, in Ayurveda diet is the best medicine.

People follow different diet plans recommended from different physicians. In this project proposed a method to recommend diet based on health of person and current season and data is collected from different websites.

II. BACKGROUND

Smartphone Based on Healthcare System These papers are deals with the healthcare system based on Smartphone. *2.1.1 Alerts in Mobile Healthcare Applications: Requirements and Pilot Study [4]* To deliver an alert signal to the appropriate person at the appropriate time introducing a

system called as urgent are referred to as alerts. Alerts have a broader coverage than *alarms*, which refer only to *critical events*. Most medical alarms have to be handled within a time period. So they propose the use of a healthcare alert management system to handle these alert messages systematically. The existing practice tends to use cellular phones and pagers for communications. This is not adequate for seamless integration with existing and future healthcare information systems. The use of personal digital assistants (PDAs) for ubiquitous computing are getting popular, but mainly just for storing addresses, scheduling, and organizing tasks. In advances in mobile technologies, PDAs and portable personal computers (PCs) have also been used for Internet accessibility. Now a days „smart devices" featured with different software and hardware capabilities are kept introduced into the market. In these mobile devices are used in healthcare Environment called as *Mobile Healthcare Computing Devices (*MHCDs).These devices can be using a part of daily life, thus makes ubiquitous computing a possibility of healthcare environment as well. In this paper to provide a efficient routing and monitoring of alerts are keys to quality and cost-effective healthcare services. So in this paper to provide the two algorithms are used.[4

]They are
1) Device role matching algorithm-authorized person of staff/device matching
2) Alert Monitoring algorithm-monitoring the patient. To take advantage of the anyplace and anytime characteristics of mobile computing environment, they propose the use of *healthcare alert management system* (HAMS).[4]

These techniques to effectively convey these alert messages to the right person(s) at the right time through the right device(s), thus minimizing delays and providing a monitoring system for assuring service quality. *2.1.2 Emergency Response in Smartphone-Based Mobile Ad- Hoc Networks [3]* In mobile healthcare applications include the use of mobile devices in remote monitoring and Collection of patients" vital signs and statistics, delivery of healthcare data to practitioners, researchers, and patients, and direct provision of healthcare (e.g., via mobile telemedicine) and emergency response (ER).Now a day"s modern mobile devices present great potential for building large-scale mobile sensing and information sharing systems fastly. There is a growing recognition by governments and private institutions that

Mobile Ad-Hoc Networks (MANETs) based ER systems could prove to be highly beneficial to minimize the fatalities of human lives during emergency situation occurs. In this paper demonstrate the breathing rate activities of multiple patients at once using their Smartphone based MANET. These Smartphone introducing a mechanism called BREMON[3]. It uses the Smartphone accelerometer to measure the accelerations during the breathing activities of a patient and processed to calculate the number of Breaths Per Minute (BPM) and periodically sent to the smart phones used by the paramedics over a multi-hop network. BREMON makes use of such an underlying infrastructure, called *Spontaneous Information and Resource sharing Infrastructure* (SPIRIT) which provides support for Discovery and sharing in MANETs. SPIRIT allows mobile devices to spontaneously share their sensor resources as services with other peers in their proximity, where mobile devices can create, discover, subscribe, unsubscribe, invoke, and control the services in an automatic fashion within the SPIRIT infrastructure. Therefore, using Smartphone-based MANET solutions is becoming an attractive option to provide quality patient care in ER systems.[2]

III. OBJECTIVES

Ease of access: One can easily get registered to the application.[1]

Minimize the work: In the busy schedule physician can stay connected with their patients.[1]

Security: The website will be more secured enough, in sense that only authorized user can have the access of the website.[1]

IV. PROJECT IDEA

Healthcare application or website consisting of all essential modules is most important in this era to stay connected with their particular physician. In this era people have become more health conscious in order to get fit and fine hence they concern their particular physician every now and then. This health care application may help the people so that they can maintain their fitness very well. The architecture is as shown in the figure below.[1]

Registration of client: Initially the client had to

1. Registration of client: Initially the client had to manually visit the clinic or destination place so that he can register but now due to change in technology or modernization clients can fill the form online and get registered.
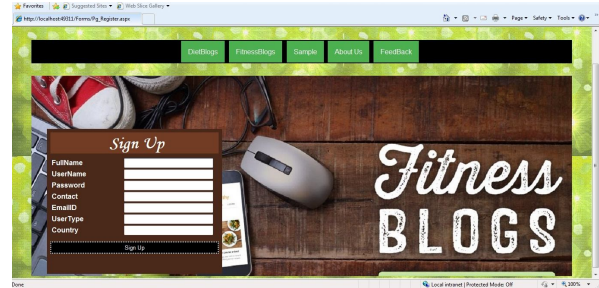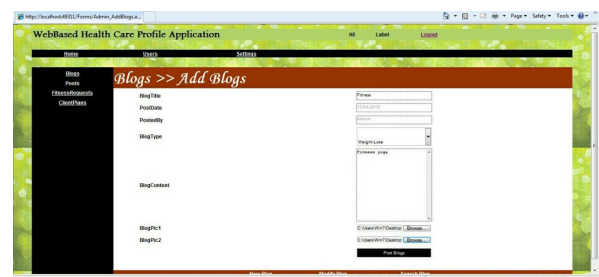

2. Selection of Physician: Initially the clients were registering to the clinic of their particular physician hence by default they were opting him or her as their particular physician but now due to change in technology or modernization in one click they can opt or select for the physician online in just a single click.

3. Uploading of reports: Initially the client or patient has to manually visit the clinic for submitting their reports but now they can upload it to the application.
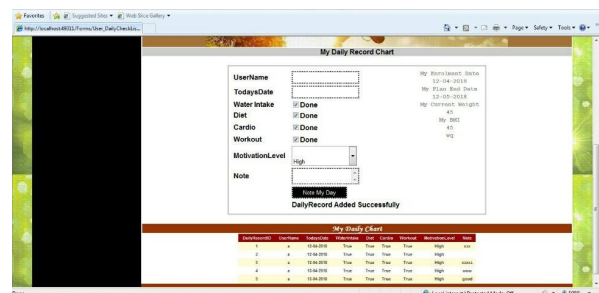
4. Daily Blogs: The daily blogs will be nothing but health related tips and fitness tips also the older blogs will be searchable.
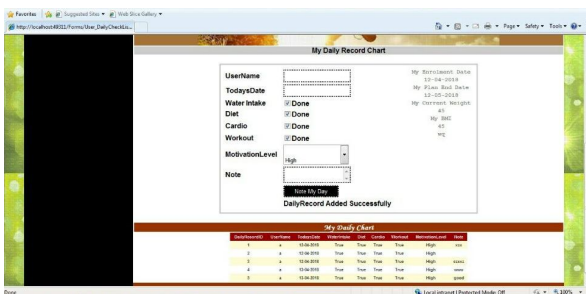
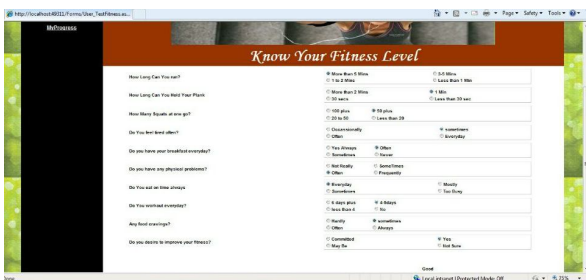1.Module for writing blogs.

11.Module for searching blogs.

5. Daily Record Chart: The daily record charts are nothing but the daily activities completed by the clients, customers, or patients.

6. Know your Fitness: The module know your fitness will show the patient about their scores related to the fitness and the health related data.

V. CONCLUSION

The system designed is consisting of all the health and fitness modules which may help the people to take care of their health and also maintain the good health. This application or system is help the humans so that they can live healthy life even in their busy schedules.

VI. FUTURE WORK

In future the scope of the system can be extended by making some changes, such that it is possible to convert the desktop application into web based mobile application which can be accessed from any mobile phone.

REFERENCES

[1] A Web Based Healthcare Application Shubham P. Pandharpote Finolex Academy of Management And Technology.

[2] Diet Recommendation based on Prakriti and Season using Fuzzy Ontology and Type-2 Fuzzy Logic Shital V. Chavan Department of Computer Engineering Pimpri Chinchwad College of Engineering Pune-44 cshital101@gmail.com

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