Integrated Health Care System Management using Mobile Application

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Abstract

In this paper discuss about the mobile application development for the health care system management where recently passed three years the mobile application plays the important role in the world there are various applications for various fields. The mobile application is provided by the operating system owner for example Google Play, Apple App Store etc are the application provider for the modern smart phone application development and these applications are developed for various purposes but here applied for the health care system.

Keywords: *Health Care, Mobile Application, Smart Phone, Operating System.*

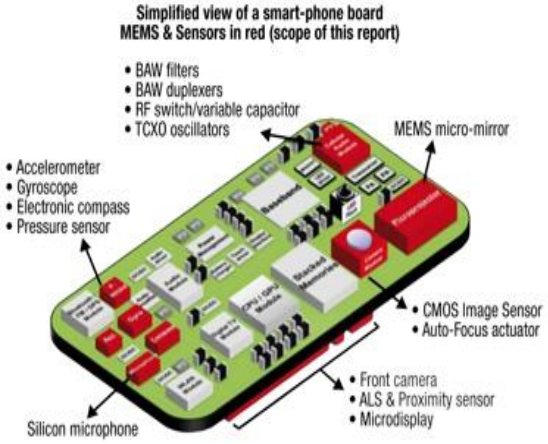
I. INTRODUCTION

The Health Care System is developed for long years ago but every project does not get the complete success, usually the health care system are created for the PC users and some of the patient does not have the knowledge of accessing the Computers and it gets the failure model. For example the patient has the login id and he/she could have to send the problems/diseases occurred to the doctor through the messaging system and it makes some difficulties for the uneducated persons and the aged patients around the rural areas. Many of the researches are going under the process of health care management system and various applications are being developed in the different categories.

In the proposed system mobile application plays the main role for the health care system, now a day's most of the people are using mobile phone because of its highly graphical user interface system. Hence that the health care system is to be approached easily accessed by any of the person to analyses the body condition at any of the situation as the purposes is integrated the multiple options are provided to the application to collect details about the patient and send information's to the particular health care centre, and the situation may occur in the type of emergency as well as ordinary problems.

II. SENSOR TECHNOLOGY

The sensor are usually used for the various kinds of purposes and in our cases both sensors and the applications are used to develop the efficient and effective health care system the sensor is used in the mobile is applied to records the heart beat sounds and transfer the data from the mobile to the databases through the internet. Also sensors are used for the various purposes such as heart failure and heavy tiredness occurred in the human body are analysed through sensors.



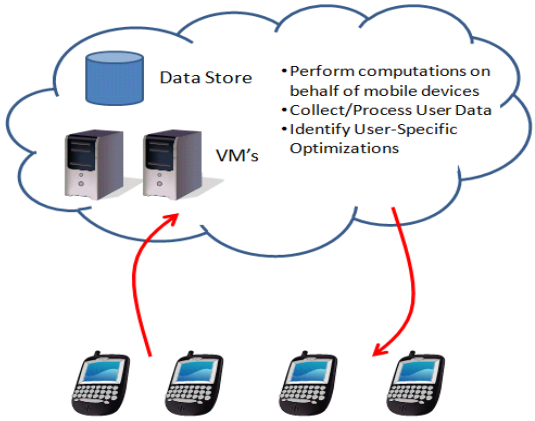
Sensors in Smart Phones

The above figure 1 shows that the sensors are placed in the smart phone technology which can carry information's from the mobile to the database server. Normally the sensors which can information such as any kind of data in the form of audio & video but in our cases we can apply for both the technologies to the mobile application as well as in the sensors technology also, thus it can provide the integrated health care system to the mobile application through the sensors technology systems.

III. DISTRIBUTED SYSTEM

The distributed system is one of the major advancement in the mobile computing technology where the data are to be shared in the global manner and the user can access the information anywhere from the world. So particularly our system focuses the mobile oriented applications have to be designed so wherever the user goes for updating the process will automatically recorded by the application system.

Usually the mobile computing system is integrated with the distributed cloud system takes the technology to the next level of the process where the data are stored in the large manner and these data are provided with the large security because the data are to be transferred in the wireless medium so a strong security algorithms are designed in the distributed computing process. If the previous health records are missed by the user and the mobile are theft then by using the distributed cloud system each and every data of the particular person information's are retrieved.



Distributed Systems for Mobile Communication

IV. MONITORING PROGESS

The monitoring process is the technique which is used to analyse the process of monitoring of blood pressure and the diabetics level measurements. Where these are the two major diseases which are affected by the most of the common people around the world so it is much needed in the application development. In most of the application development every disease are separated by several applications, but our proposed system faces all diseases in a single application process.

BP/Diabetic monitoring in iphone

A. BP Monitoring

The BP is also known as blood pressure which causes the hypertension to the human and makes the heart pump to beat higher and makes the heart failure so our app has the capability to sense the body of the human automatically at the particular period of time where this reports are forwarded to the health centre or doctor at regular interval of time so in case of emergency special alert is tuned.

B. Diabetic Monitoring

The diabetic diseases is caused by the various reasons and many of the people are affected by the diabetics around the world they have to check up their health regularly in case of that our app has the equipment where the blood sample have to be submitted it is further analysed and the report is generated in the following system.

V. SCANNING APPROACH

The scanning is the important process of the medical process, where this scanning approach are done usually by the x rays radiations where this x rays are created by the electromagnetic radiation for the devices and scans the internal bones of the human body and identify the breakages of the bones and find a proper solution to a diagnosed problems. But in our purposed there a solution to the for the scanning process where the photo has to been taken and there are emission of radiations are began to pass this could be only possible by the advanced mobile technique and these are forwarded to the cloud system of the mobile computing process.

X-Ray Scanner Through Mobile

VI. IRIS ANATOMY

The iris is the rounded and thin structure around the eyes and it gives the structure and colour to the eyes where this iris technique are transferred into the mobile app development process for the diseases identification process and it could be useful for the eye problem oriented patients. For example the image of the eye has to be captured and this image is to move to the server and health centre will obtain the image and diagnose the picture and forward the proper feedback to the patient.

The below figure 4 shows the iris scanner application as sample this would moves to the cloud databases and the server will update the all collected information's of the patient. The iris scanner is used to check the eye power also through the recorded video of the phone and these capturing of the video will be in high quality camera with mega pixels also some of the new technical app which could find diseases of the iris image.

Iris Scanner Application

VII.INTEGRATION SYSTEM

The integration system is main pact of the mobile application development where the applications are developed for the separate unit for each and every problem and these applications are released for the single purposes but our approach has to create an application for a multi-purpose health care system which deals all diseases which are causes for human it can be noted and analysed through the sensors based or application based system.

Healthcare App

The sensor based will sense the particular hear beat and if any heart beat looking faster than the normal beat it would sends the urgent notification to the health centre nearby connected other app will act as simultaneously.

VIII. CONCLUSION

Thus the integrated mobile application development has described for the health care system for the multiple purposes which could be useful for the person by getting of an alert to the users which could also have the abilities to handle the serious conditions patients by forwarding message alert in a smart way.

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