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Pharmaceutical Assistance in Mobile Environment

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Abstract*--"*Pharmaceutical Assistance in Mobile Environment" is an Improvement of the quality and efficiency of healthcare. The widespread adoption and use of mobile technologies is opening new and innovative ways to improve health and health care delivery. The patient can easily use this system at anywhere and anytime. This will be more helpful for the trace the medicines and the medical stores. The patients and hospitals can need some medicines in any emergency case it will helpful for finding them. The user can easily trace the medicine where it is available and where it will get from nearest to the patient or hospitals. So the people can save their time and money respectively. Each and every person can utilize this system in emergency time and when they need. The systems that can be obtain the accurate patient medical information in situations where it may not otherwise be available. Otherwise the people get suffered to find the medicine where it gets. Even they don't want to roam the entire medical store to search the medicine. It will help them to provide accurate and perfect solution for the availability of the medicines and the route.

Keyword:-EMR-Electronic Medicine Record, Medicine, GPS-global positioning system, GPRS-general packet radio service

1. Introduction

It has been optimized for your Smartphone! Now it's easier than ever to access trusted health and wellness information anytime, anywhere. The user can track his location and the medical store through the route mapping between user and the destination. The system can integrate the Google map through the GPS system**.** It provides valuable health information, tools for managing your health, and support to those who seek information. You can trust that our content is timely and credible. The "Pharmaceutical Assistance in Mobile Environment" is designed to provide a flexible, scalable method of storing and communicating critical electronic medical record information using personal handheld electronic devices.

The first phase of development has succeeded in: designing the architecture for a wireless, power-efficient smart phone to store and communicate medical information incorporating GPRS technology with identification of to trace the location to find out where the medicine is available; and selecting a platform and creating application software for a handheld computing device used by healthcare providers.

The Pharmaceutical Assistance in Mobile Environment system assists medical personnel in obtaining accurate patient medicine information in situations where it may not otherwise be available. In this manner, This technology will improve the quality of care delivered in emergency situations.[1]

Millions of people suffer from medical conditions that should be made known to healthcare practitioners prior to treatment. Paramedics and emergency room Doctors cannot provide optimal care without sufficient Lacking patient information Such as allergies, current prescriptions, and preexisting conditions, medical professionals are often forced to either delay treatment or rely on instincts. Medical mistakes in situations like these kill thousands of peoples. Here we can individuals to store personal medical information using portable electronic device.[2]

2. Research Problems

In this system on this project is that if a patient wants to buy a medicine from his nearest area. He doesn't have much idea about where the particular medicine will be available. Once the patient knows what disease he/she is having the application retrieves a list of the medical shops nearby him at the current time which has the particular medicine with the actual price and also generates a map leading to the shops.

They where roam each and every medical store to buy that medicine. We cannot access this from remote area. In the present scenario the medicine sometimes is not available in the stores also. Many patients are troubled in hospitals on the shortage of medicines or misleading by them the patient does not get proper service. The rural area doesn't have much more medicines and to provide medicine availability in different medical store.[2]

In this system patient are need not to move from different medical stores. The patient are going link through system to one another. This system also will give an opportunity to setup a network of all medical stores and medicines where they can get this for critical patients.

3. Motivation

At present caring our health is a main problem which we can't cared at any place and time whenever we required. The main reason behind is the availability of medicines. Hence to solve such problems medicine for mobile clinic were started.

The widespread adoption and use of mobile technologies is opening new and innovative ways to improve health and health care delivery. Help patients/users self-manage their disease or condition without providing specific treatment suggestions. Improved efficiencies and lower health care costs by promoting preventative medicine and improved coordination of health care services, as well as by reducing waste and redundant tests.[4]

Pharmaceutical Assistance in Mobile Environment means mobile clinics which will be used in giving the mobile solution to the societies.

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The people who can easily to access the medicine "what they need?" at any where is available. Then the patient or the hospital can easily have a connection in between the medical store and their mobile phones. So the people can be to search what the medicine they want? Where it is available in his nearest area? And the whole medical details such as manufacturing date, expiring date, keyword and dosage etc.[5]

4. Literature Survey

This section is the study of various medicines that are available in the all over the places. This can be work with using a mobile phones, the people who are using android phones that peoples who can easily to access this facility and they can easily trace the which medicine they want? Where it may available? This will help them to the patients and hospitals that are all searching the medicines. Here we can collect all the information about the medicines and the uses of the medicines. This system will lead to be help for maintained the medicine details and which medical store is having this medicine.[6]

Patients are often faced with complex information and treatment decisions. Some of the specific tasks patients are required to carry out may include:

[1] Evaluating information for credibility and quality

[2] Analyzing relative risks and benefits

[3] Calculating dosages

[4] Interpreting test results

[5] Locating health information.

In order to accomplish these tasks, individuals may need to be:

[1] Visually literate (able to understand graphs or other visual information)

[2] Smartphone literate (able to operate a Smartphone)

[3] Information literate (able to obtain and apply relevant information)

[4] Numerically or computationally literate (able to calculate or reason numerically).

Oral language skills are important as well. Patients need to articulate their health concerns and describe their symptoms accurately. They need to ask pertinent questions, and they need to understand spoken medical advice or treatment directions. In an age of shared responsibility between physician and patient for health care, patients need strong decision-making skills. With the development of the Internet as a source of health information, health literacy may also include the ability to search the Internet and evaluate Web sites.[4]

There are many challenges to the development of the mobile platform. Most importantly, the mobile platform must be seamless and autonomous in its operation (e.g., in raising alerts), in order to provide a usable service to a target group that usually does not have any familiarity with technology and might even be unconscious during times of medical emergency and not able to manually operate any device or software. System and service reliability is also an important issue to take into account, firstly due to the possible negative sensation that the application may give to the user in the case of malfunctioning, and, secondly, due to the physical distance between the technical maintenance teams and the users. From an implementation point of view, the issues regarding the implementation of intelligent mechanisms in a mobile resource-limited device should also be considered.[8]

5. Methodology

The system "Pharmaceutical Assistance In Mobile Environment" is purely depend upon the mobile devices only. Who are all using mobile devices they can use this application. Here the peoples can easily to trace the medicine and the medical store. The widespread adoption and use of mobile technologies is opening new and innovative ways to improve health and health care delivery. Mobile applications (apps) can help people manage their own health and wellness, promote healthy living, and gain access to useful information when and where they need it.

At present caring our health is a main problem which we can't cared at any place and time whenever we required. The main reason behind is the availability of medicines. Hence to solve such problems mobile clinic for medicine were started. Many patients are troubled in hospitals on the shortage of medicines or misleading by them the patient do not get proper service. The user can track his location and the medical store through the route mapping between user and the destination. The system can integrate the Google map through the GPS system.

6. Integrate the Google Map through the GPS

The Global Positioning System (GPS) is a satellite based navigation system that can be used to locate positions anywhere on earth. Designed and operated by the U.S. Department of Defense, it consists of satellites, control and monitor stations, and receivers. GPS receivers take information transmitted from the satellites and uses triangulation to calculate a user's exact location. GPS is used on incidents in a variety of ways, such as:

- Determine position locations; for example, you need to radio a helicopter pilot the coordinates of your position location so the pilot can pick you up.
- Navigate from one location to another; for example, you need to travel from a lookout to the fire perimeter.
- Create digitized maps; for example, you are assigned to plot the fire perimeter and hot spots.
- To determine distance between two points or how far you are from another location.

The purpose of this chapter is to give a general overview of the Global Positioning System, not to teach proficiency in the

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use of a GPS receiver. To become proficient with a specific GPS receiver, study the owner's manual and practice using the receiver. The chapter starts with a general introduction on how the global positioning system works. Then it discusses some basics on using a GPS receiver.

Figure 1 System Architecture

7. How the Global Positioning System Works

The basis of the GPS is a constellation of satellites that are continuously orbiting the earth. These satellites, which are equipped with atomic clocks, transmit radio signals that contain their exact location, time, and other information. The radio signals from the satellites, which are monitored and corrected by control stations, are picked up by the GPS receiver. A GPS receiver needs only three satellites to plot a rough, 2D position, which will not be very accurate. Ideally, four or more satellites are needed to plot a 3D position, which is much more accurate.

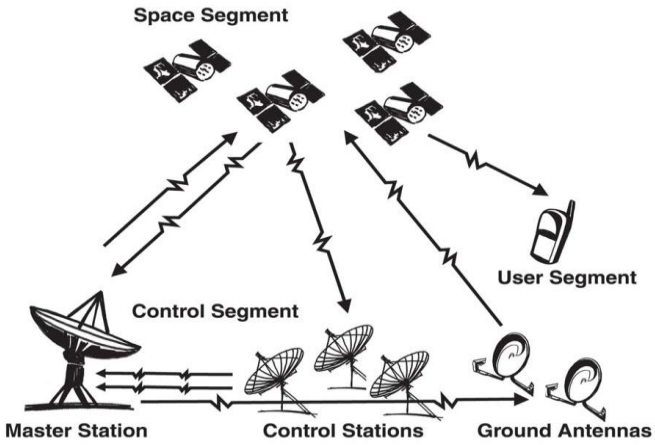

Figure 2 Shows GPS Working And Intereaction with Mpbile Devices

8. How GPS Determines a Position

The GPS receiver uses the following information to determine a position.

- To precise location of satellites.

When a GPS receiver is first turned on, it downloads orbit information from all the satellites called an almanac. This process, the first time, can take as long as 12 minutes; but once this information is downloaded; it is stored in the receiver's memory for future use.

- Distance from each satellite

The GPS receiver calculates the distance from each satellite to the receiver by using the distance formula: distance = velocity x time. The receiver already knows the velocity, which is the speed of a radio wave or 186,000 miles per second (the speed of light). To determine the time part of the formula, the receiver times how long it takes for a signal from the satellite to arrive at the receiver.

The GPS receiver multiplies the velocity of the transmitted signal by the time it takes the signal to reach the receiver to determine distance.

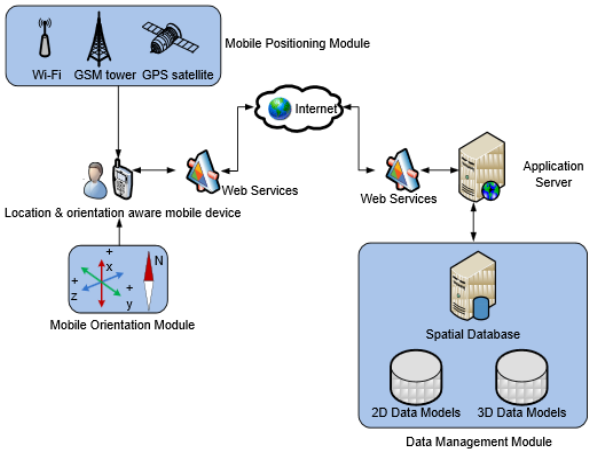

Figure 3 GPS Working in Cloud

Routes

Routes are just a sequence of waypoints. When navigating a route, the GPS receiver will automatically change the destination waypoint to the next waypoint on the list as it reaches each waypoint. Once one waypoint is passed, the GPS receiver will navigate to the next waypoint. When a route is first activated, the GPS receiver will assume that the first leg is A to B. B is the waypoint being navigated to and A is the anchor point that defines the first leg of the route.

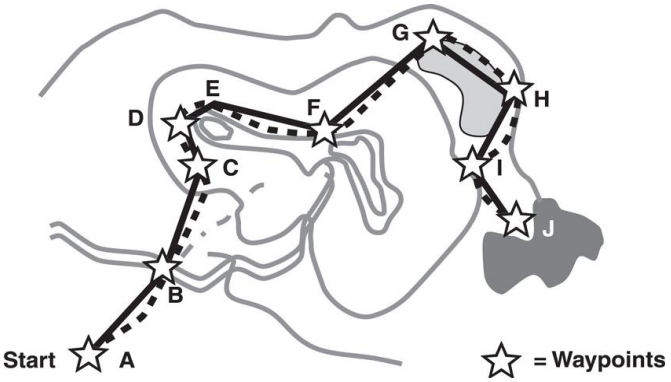

Figure 4 Example of a "route" that is displayed on a GPS receiver screen

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9. Relevance

Issues that could be affect how you manage your own health and that of your family's. Topics include coverage of breaking health news; drug and product launches, recalls, and alerts; health advisories; and expert commentary on managing diseases and conditions and staying healthy.

10. Conclusion

Our mission is to bring you the most objective, trustworthy, and accurate health information. Our daily goal is to ensure that "Pharmaceutical Assistance In Mobile Environment" is your practical and relevant content source for health and medicine.

We are committed to providing information on a wide variety of health topics, and rather than filtering certain types of information that may or may not be applicable to any one individual's personal health, we rely on you, our reader, to choose the information that is most appropriate for you

"Pharmaceutical Assistance In Mobile Environment" Health have spent our entire careers dedicated to helping people find the health and medical information, support, and services they need -- even before there was an Internet! We are dedicated to providing quality health information and to upholding the integrity of our editorial process.

"HOPE THIS TYPE OF SYSTEM TO BE IMPLEMENTED WORLD WIDE TO SAVE THE TIME AND MONEY"

11. Future Enhancement

According to this research work, my future research is wanted to be on [1] Improvement of the quality and efficiency of mobile healthcare. The widespread adoption and use of mobile technologies is opening new and innovative ways to improve health and health care delivery.

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I would like to thank to my University, for allowing me to proceed this work experience in the **Veltech university campus**.

For any future enhancement we will be proceeding to this university only.

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