Personal Health Companion – The Medical Service Finder Application

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Abstract:
The dynamic spreading of digitalization, especially in rural areas, led us to develop an android application which provides medical facilities. Since, android is the most emerging and trending technologies these days, the application is developed in Android. The application deals with medical services available to the users nearest location. After registering in an application, user can get access to the services like hospitals, medical centers, ambulance, blood bank and emergency services. By using this application one can search for the specialist doctors and get emergency service by calling police or ambulance. If user requires offline help for common diseases, then they can use home remedies option. The service provider has to give their identity to the administrator, and after verification same identity will be displayed to the users.

Keywords: Android application, Medical services, GPS, HTTP URL Connection.

I. INTRODUCTION

The mobile phones are having the benefit of its easy carrying facility without compromising with the functionality with respect to the devices like PC’s and laptops. Now a days using the applications on mobile phones is quite handy than visiting the websites by using the browsers. Along with this the most of the smartphones in the market are running on the android platform. Android is the emerging technology in digital era.

This application provides easy assistance in both areas of working professional as well as in daily life. The things are available in our reach but we are unknown about this. This might be applied for medical field as well. To fill this gap we are developing an android application which can find the medical services available around you that you might not know before it.

The application provides the emergency services like ambulance and the police that could be helpful in critical situation. This application uses GPS services for getting the location of the user and by using this location application can suggest the medical services available around the user. This application also provides the way to reach there through maps.

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II. LITERATURE SURVEY

[1] Is the paper in which author had explored how to design the user interfaces of handheld device based on Android. The paper focuses on the basic layout architecture for the user interface in an activity contained in an android application. Android provides a straightforward XML vocabulary that corresponds to the View classes and subclasses, such as those for widgets and layouts. View and ViewGroup objects are also created by android application programatically.

[2] Is the paper in which the author had stated that the outstanding expansion of information on the Internet has forced new challenges to make search engines more effective. This paper review some of the techniques which are helpful for giving more efficient and relevant information to user search query in less amount of time. In this technique, for page ranking search engines are more dependent upon humans. In this way, humans behave as a quality tester for search engines. Inferring search goal is very promising solution in order to get the relevant information to user query. Use of feedback sessions gives more reliable output, instead of taking only search results in the process of inferring search goal.

[3] Is the paper in which the author had stated that the Google GPS system provides the appropriate location of user but even though it cannot provide the accuracy location information of each street. Therefore the displayed track doesn’t match with the actual longitude and latitude of user’s location. That’s why author has proposed a track modified algorithm with the help of Google map and display accurate position of user.

[4] Is a paper which proposes that the Global Position System (GPS) provide the services like current location fetching, current time and speed. Global geocentric coordinate system is used by GPS for location searching. But the efficiency of GPS is badly affected by the position of the mobile device. To achieve the best results for GPS, the mobile device must be in direct line of sight to receive satellite signals. Location searching facility by using GPS is seriously affected by shadow regions. There are 24 satellites, including three for the spare satellites circumnavigating around the earth providing Global weather, sending a second, continuous positioning signals.

[5] Is the paper proposes that for enabling client-server services HTTP is a key protocol. To manage multi-access wireless system for mobile devices HTTP input channel is used. The HTTP input channel is an application layer protocol solution. It provides unidirectional connection between client and server and automatically selects network interfaces under use along with seamless switching during the input operations.

International Journal of Engineering Science and Computing, April 2017 10556

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III. EXISTING SYSTEM

[6] Is the application named HealthWiz had implemented the service of posting the news, questions and updates which are visible to all the users. The option of finding health updates and news from healthcare professionals like doctors is included in the application.

[7] Is the ‘health and nutrition guide’ application in android had implemented the service of home remedies in which they had given some instant solutions for dealing with common health problems. It also gives the brief information about nutrition and minerals that we get from our daily food.

[8] Is the Doctor Finder application having the service of searching for doctors based upon the location. The application uses Google services for getting the doctors records. The problem with this application is that although the doctors are available into the particular location, it doesn’t manage to give information about them.

IV. PROBLEM STATEMENT

To develop an Android application which helps user to trace nearest specialist doctor, ambulance, medicals, police and the services like booking appointment with doctor, get awareness news, blood banks, first aid etc.

V. PROPOSED SYSTEM

The system has two main components, which are Web base administrative panel and Android based application.

a. Outline

• Administrative Panel

This is the web based application which performs task like accept feedback from user, do modification based on feedback, manage users, and manage posts from doctors. The data to and from the Android based application is synchronized with the database. But android based application and administrative panel is not having any direct contact with each other.

• Mobile Application

The main interface to the user is the Android Based Mobile Application. All communication is performed using this application. Starting from profile creation, much of the logical functions are performed by the application itself. Depending on the type of user, application provides necessary interface and control to the user. The application need to have constant internet connection, to synchronize the data with the server database, it must be connected to the Internet.

b. Block Diagram and Working

As shown in figure 1, the centralized server provides the data to both, admin panel and application. Administrator panel and application is not interacting with each other directly.

Both modules are having their individual functionalities. Administrator manages the accounts on admin panel. Sending authorized upper level notifications is in hands of the admin.

Other administrative functions like adding special events, managing users are done at this end.

Figure 1. Block diagram of Personal Health Companion App

Figure 2. Block diagram of Personal Health Companion App dashboard

The Working of the Application is more concerned in figure 2. The application is an interface to the user. Depending on the profile of the user, it will decide the functionality to be given to the user. Depending on the designation that the user provide while registering, application will provide interface.

VI. CONCLUSION

The application explained here is useful to the normal people who does not aware about the local area medical services. Being the application user, he/she will frequently get informed about medical campaigns, latest medical news. The hectic task of searching a doctor in the area is simplified by using this application. Detailed information about doctors and medical centers is available to the user in few clicks. If the user is offline and cannot reach to the doctor then he can use treatments given in home remedies. So, the application becomes very useful.

VII. REFERENCES


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[7]. Health and nutrition guide (naveeninfotech) – Android application

[8]. Doctor Finder – Android application