

RESEARCH ARTICLE



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LOCATION BASED PROFILE CHANGING SYSTEM

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ABSTRACT

This is Location based profile changing system. The main aim is systematically change the mobile settings like (Mode, Mobile data, GPS, Wi-Fi,). The feature of the application is finding the missed mobile which is in silent mode. Create a profile and set the mode as (mobile data is off, Silent mode is off). We could create multiple profile. While creating a new profile based on location, the device must be present in the particular location . For Ex: If user wants to create a college profile, the device must be in college campus. A Mobile minder i.e. reminder needs to be updated when to reach a particular location which helps u or someone getting updates on when you reach the specific location / area. This location updates needs to happen in a neighborhood region or at a remote location. .As soon as the location of a particular area which are set matches with the GPS coordinates Location server is updated (LS U) and profile is activated. Reminder of particular task which is fed in your mobile also alerts you. Once the profile is created, it starts working without user interaction and physical presence. This works using service which is a component that runs in the background. . This application needs an one time registration like user name, password and phone number. After the registration we could create different profiles and change profile settings from any mobile number using message command with password. In case of having mobile missed in silent mode, we will not be able to find without ring tone sound. In this case we can change the mode to general or some other sound profile from another mobile and find our mobile easily.

Key Words— GPS , Google Map, Location Update , smartphone devices, mobile applications.

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1.INTRODUCTION

The android is the latest and upcoming operating system in the market and application related to this operating system are much faster and easier to work. The use of this operating system is increasing

due to its versatility and capability of satisfying the user. The purpose of this system would be capable of taking decision on profile setting to be changed depending on the zone/location in which the mobile would be operating and send a sms accordingly to

remote mobiles and occasionally updates in ringtone profile. Further it would be enhanced with the locational reminders. This application allows user to input locations by typing in the addresses or by selecting location from Google maps as one would do in Google maps . Along with the locations, the user can specify a relative order among his locations. In this system we are going to develop android applications which are location based. Also we will develop some of the application which is occasional. The system updates the profile automatically after entering to a restricted zone. It updates the profile to a desired mode on a particular location. It text alerts to neighborhoods after entering or leaving the particular zone. It reminder in the form of Alerts after entering to a specified zone/area.

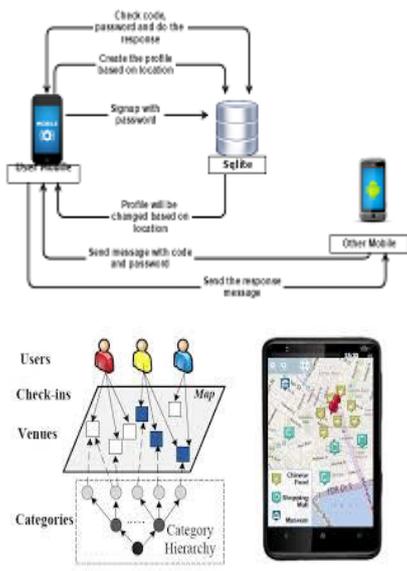
2. LOCATION BASED SERVICES(LBS)

A location-based service (LBS) is a mobile application that depends on the location of mobile devices which is an Information services accessible with mobile devices through the mobile network and utilize the ability to make use of the location of the mobile device. A Location Based Service (LBS) is an information and entertainment service, accessible with mobile devices through the mobile network and utilizing this ability to make use of geographical position of the mobile device. LBS services can be used in a variety of way, such as work, health, personal life, etc. LBS include services to identify the location of a person or object, such as discovering the nearest ATM or the nearest filling station, tracking location of friend or employee. LBS services include order tracking and vehicle tracking services. There are two major parts- Obtaining the current location of the user. • Utilize the obtained information to provide the user a specific service. In order to make LBS services possible, some infrastructure elements are necessary, including mobile devices, applications, communication network, positioning component, and service servers Mobile devices are tools used by users to access LBS services, to send requests and retrieve results. Such devices can be portable navigation devices (PNDs), Personal Data Assistants (PDAs), laptops, mobile phones, and so on. Application is the

interface for users to access the LBS service. Due to the restrictions of mobile devices (small screen size, limited processor power and memory, battery capacity), LBS applications need to be lightweight and battery saving .Communication network refers to the mobile network which transfers service request from user to service provider, and requested information back to the user. A positioning component is usually needed in a LBS application to determine the location of user's mobile device. Service providers maintain service servers which offer different kinds of LBS services to users and are responsible for processing service requests and sending back request results. Servers calculate positions, search for a route, or search specific information based on user's position. Service providers usually do not store and maintain all the information requested by users. Instead, content providers are responsible for collecting and storing geographic data, location-based information, and other related data. These data will be requested and processed by service servers and then returned to user.

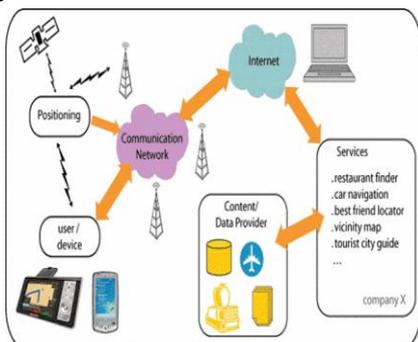
2.1.EXISTING SYSTEM

In Existing System There is no applications for profile changing system based on the locations. Sometimes we forget to change the profile to silent mode .When we are using the mobiles in colleges if college management will not allow it may gives the trouble. We have to change the profiles manually but if we want to change the profile based on the location. is not possible.If using current location ,have to find the particular area and also find the value of the area. GPS(Global Positioning System) is combination of latitude and longitude like X and Y Axis ,The satellite only send that value(Latitude and Longitude) to our smart phone using that value it will show the corresponding location. We have to change the profile manually..Difficult to finding silent missed mobile.



3. PROPOSED SYSTEM

The Proposed System is Location based profile changing system. The main aim is systematically change the mobile settings like (Mode, Mobile data, GPS, Wi-Fi, etc). The feature of the application is finding the missed mobile which is in silent mode. Create a profile and set the mode as (mobile data is off, Silent mode is off etc). We could create multiple profile. user can manage the profile and alert automatically based on the location value that means latitude and longitude. In our project we can maintain the one data base it's contain the some of the location and that corresponding values we can find the distance between the current location and corresponding instance location whether that satisfy the our condition it will automatically convert prefer mode (silent, vibrate or normal) of the profile of the smart phone and alert also. Profile will be changed based on the locations. Easily find out the silent missed mobiles. Change the airplane mode through message.



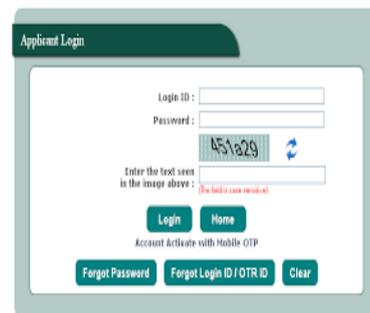
4. MODULE DESCRIPTION

In this paper there are four modules. They are as follows:

- One time registration
- Create the profile .
- Get Location
- Automatic profile Change
- Update modification
- Change the mode using message

4.1 One time registration

In the first module, the user sign up into the location where the sign up process is based on one time registration. The user gives the user name , password, mobile number and the alternative mobile number.



4.2 Create the profile

In the second module, after signing up into the application the user profile is created and it is stored in the local database. The service runs in the background after completion of user sign up. user can change the profile mode based on the location



4.3 Get Location

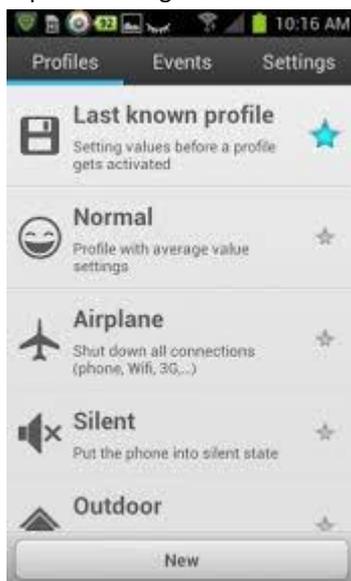
In this module, the application gets the current location to set the mobile's profile mode. the profile

mode to that particular location is picked from the database. These details are previously stored by the user. If the user enter into the new location, application get that location and our database checks the value whether the user have set the mobile's profile mode to that location. If yes, it get the profile mode.



4.4 Automatic profile Change

After getting that particular user's current location and the profile mode to that location it automatically updates the profile mode of the mobile. This profile change is based on location.



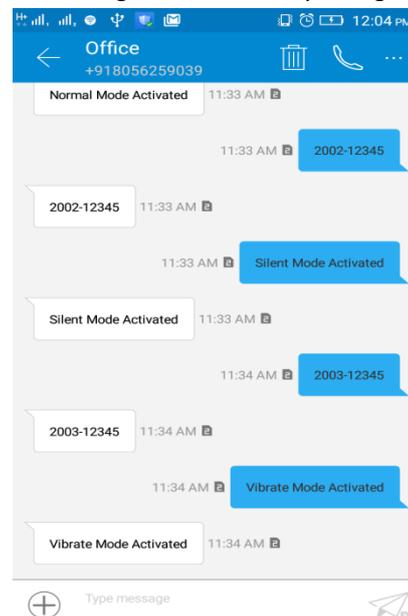
4.5 Update modification

In this module, the user can update and modify the profile change to which the user already have set the profile mode. So, it is possible to the user to update the profiles also.



4.5 Change the mode using message

In the final module, the user can change the profile mode. If the mobile is missed in the silent mode, user can change the silent mode to general mode by using the alternative mobile number. If the user send the message from alternative mobile number, the profile mode gets automatically changed.



5.FUTURE ENHANCEMENT

After going through the surveying, it can be gathered that there is a huge scope of application development in mobile domain.

Following the same notion, we can also develop application that can tackle following issues:

- 1) Location positioning technologies
- 2) Query processing
- 3) Cache management

Applications can be developed on Android platform of Open Handset Alliance led by Google. Google provides simulated environment and standard development kit for developing Android applications. Although this platform is very new and SDK provided is still in its nascent stage, a great number of mobile companies are queuing up to install it on their devices. We chose Android as it is parallel to iOS (supported by Apple) in terms of facilities it provide and is also open source. The LBS application can help user to find hospitals, school, gas filling station or any other facility of interest indicated by user within certain range. Just like a GPS device its location will also be updated as soon as user changes his/her position.

6.CONCLUSION

This paper includes the entire study of Location based automatic profile changer and mobiminder. It gives the information of location service ,where each node needs to maintain its location information by frequently updating its location information within its neighboring region, which is called neighborhood update (NU), and occasionally updating its location information to certain distributed location server in the network, which is called location server update (LSU). In this ways it provided a systematic way of profile changing according to the GPS coordinates and also reminds us about it and makes the use of mobile to the user more convenient.

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