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GPS Based Profile Scheduling Using Android Smartphone

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Abstract :

With Profile scheduling you can automate your profile changing with timer, so you can enjoy your good night sleep being off-line without disturbing phone calls, and be back on-line automatically even before you actually wake up. This app is especially beneficial for working professionals who generally have more important issues to deal with than changing the sound profile! This app is being developed in android platform. It is also enabled with GPS functionalities to change your profile automatically. The basic function of the scheduler is to change the brightness, sound profile, switching on or off Bluetooth.

This app will be developed in the android platform. The application is also heavily dependent upon GPS. As in this app we are providing to modes of switching profiles one is GPS disabled mode i.e. manually switching of profiles and other is GPS enabled mode, with the help of which it can automatically change certain functionalities of the phone. Once the GPS mode is ON, Google Maps will be used for the purpose of tracking the current location of the device. For example, when entering in a silence zone, the application will make use of GPS to change certain features of the cell phone.

Keywords: GPS, G-map, Android smartphone, Profile scheduler, File backup, Emergency calls

1. Introduction

In today's world, mobile phones have become an inseparable part of our lives. Despite all the advantages it does have a problem of ringing anytime and anywhere! To overcome this and many other minor problems we present our project which is a profile scheduler. In our system we are going to change the profile of our Smartphone by using GPS so our system named as GPS based profile scheduling. Our system is working on two mode GPS enable and GPS disable (manual mode). It changes the profile of Smartphone automatically based on location and timer. In this project we can provide some new features such like as profile by timer, profile by GPS, emergency calls and file backup. Profile by timer in this feature profiles can change with the help of time (time interval). In profile by GPS it can trace the locations from G-Map and profile automatically change. We can also add the emergency calls, taking the numbers and file backup.

In this project we can also manage the

- Fully customizable sound profiles
- Setup Volume, Bluetooth, hotspot, Mobile data, Aeroplane mode ,Call ,Screen brightness and Ringtones
- Mute or raise volume for selected contacts using customized profiles

This system has multiple users. It may be,

- Student
- Office Employee
- Doctors, Hospital Staff
- Other worker
- Home use

2. System Design

2.1. System Architecture

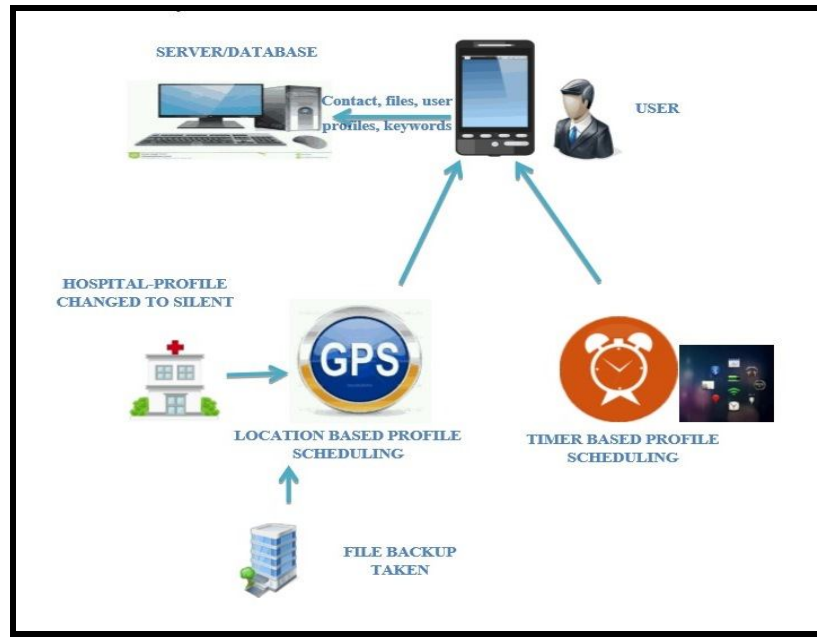


Figure 2.1 System Architecture

- Server/Database: All the location co-ordinates, emergency contacts, backed up files, keywords are stored to the database.
- User: User has to login to the application first. Then he must start his GPS connection, setting the user profiles as per required.
- Scheduling: Scheduling can be done based on location, time, keyword. At the hospital profile should be changed to silent while after leaving the office the file backup should be taken.

3. System Features

Following are the features to be implemented in the proposed system: GPS Based Profile Scheduling:

3.1. Profiles by locations and keyword

You can automatically switch profiles on the basis of tracking your current location and keyword Using GPS and you can also add favorite places and let the application switch profiles according to your current location.

3.2. Profiles by timers

Are you tired of adjusting the volumes manually? With a smart profile scheduler, you can schedule activation of the profile using timers. Are you sick of muting the ringer at night, restoring it in the morning, or even turning the Wifi or Mobile data on and off? Smart Profile Scheduler can do it for you.

3.3. Emergency call ring-up

This feature allows you to receive certain calls even when your profile is in silent mode User can create a list of emergency numbers which will ring even when profile is not in general mode.

3.4. File backup

With this feature, you can back-up the important file from your Smart phone at the Office or leaving the Office. In that case type of file which must be back-up and work station should be specified before only.

4. Conclusion

GPS Based profile scheduling provides you customizable profile scheduling. You can switch them manually or automatically based on timing or location successfully. It also provides you a features like file back-up, emergency call setup.

5. References

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