**GPS LOCATION ALARM SYSTEM**

**Abstract:**

In current system, alarms are set for particular time. Many times there are situations where the alarm/reminder is based on your current location and not based on time. The Mobile application installed on the mobile can give a alarm based on a particular location. Additionally, the application would help user to find out how far the user is away from particular reminder location on the map.

**Overview**

Have you ever had a situation where you visited one place and you have some task to do next time you visit the place?

While travelling by bus/train, Have you missed your station because you were sleeping and wondered if you had put alarm based on location?

The application “Mobile Location Alarm” solves all these problems. It offers below services

* Retrieves the user’s current geological coordinates.
* Allow user to enter new alarm for a particular location
* Along with alarm, user can optionally put the reminder text as well
* Once user is near the location, the alarm will ring and also if there is any reminder text it will be displayed to user.
* User can edit/delete/update/enable/disable the alarms.
* User can see the locations on Map to find out how far he is from the expected location.

**Technology**

Technologies used in this project are,

* Android
* GPS (for getting user’s current location)
* GPRS (for Maps) or 3G

**System Modules:**

The mobile application has below modules

* **Set Alarm** : This module is responsible to get inputs from user about the alarm – name of location, expiry date of alarm, reminder description if any. This module is responsible of converting the location name into actual geo co-ordinates and set the alarm for that location.
* **Alarm Generator :** This module is responsible to ring the alarm if user is near to the location for which alarm is set.
* **Alarm Viewer** : This module is responsible to display the already set alarms. Allows user to edit/delete/update alarms.
* **Map :** This module is responsible to display map wherein the current location of user and the expected location are shown on the google map.
* **Settings** : This module allows user to set some settings for the applications.

**Hardware Requirements**

Mobile which has below features

* GPS
* GPRS
* Android 1.5 or higher

**Software Requirements**

* Android Google API 1.5 or higher
* Android Development Tool plug-in
* Eclipse 3.4 or higher
* Sun JDK 5 or higher