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A Survey Paper on Location Reminder

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Abstract

Most of the reminder applications in mobile phones are time and date based. In which the user must save the time and date of when he wants to be reminded about within the reminder. If the reminder is on, the device continuously tries to match the device's time and date with saved time and date, and also the user are going to be alerted if it's a match. But in many cases the user won't bear in mind about the time and date, but he is going to be aware of the place where he wants the reminder. During this project, I have got tried to style an application which supplies alert about the reminder when he enters into the nation-state per the reminder. I have discussed about the android technology employed in this application like GPS and SQ Lite Database technology. I have got also tried to produce additional features like tone and vibration to catch user attention so he doesn't miss the alert.

Index Terms: **Location Reminder, GPS, WIFI, Google Maps.**

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1. INTRODUCTION

In current busy life vogue folks have to be compelled to perform form of task in their day to day life like meeting at work, shopping, filling fuel once work etc. we have a tendency to usually use paper notes and currently a day's reminder system in mobile phones. Varied tasks are often categorizing as follows: one. Task that is Time primarily based a pair of task that is location. In "Time based tasks" the task that is beginning at a particular time e.g. Meeting this can be regular at eleven AM. we have a tendency to set reminders in our mobile for identical. On the opposite hand, in "Location primarily based reminder" the task to be performed at specific location, like filling up the fuel whereas going back home from workplace. In such case setting alarm solely by time may not be useful if user isn't bound once he/she are passing by the fuel pump. This has intended to style location primarily based reminder system. during this notification are given & alert are given as a reminder after you area unit going nearer to the fuel pump. the situation reminder is example of location based services (LBS). Location primarily based reminder application depends wholly on the technology of world Positioning System (GPS) to spot the specified location. This project aims to develop a location primarily based reminder system mistreatment Google Maps API that takes facilitate of GPS. During this setting the innovative work difficulties to create a wise world area unit Brobdingnagian. A world wherever the real, advanced and therefore the virtual area unit convergency to create savvy things that influence vitality, to move, urban communities and diverse totally different zones additional clever

1.1 OBJECTIVES

The objective of our project is to create an android application that provides:

- Location based reminder facility
- Automatic profile changer based on location
- Parent child tracker
- Emergency services
- Nearest friend notification
- Person location tracking by everyone

2. LITERATURE REVIEW

The popular reminders rely on electronic calendar in cell phones. These reminders square measure fully time based mostly i.e. this can offer notice simply on at that specific time. Usually it's not confirmed that we are going to be gift at the actual space for the work that we've set the reminder. Rather it's paid if the notice or alert triggers after we square measure very gift shut or at that exact space. To assist current people to recollect one thing at a specific time and space, sensible Location Reminder could be a boon. To fill the necessity, implementing associate degree application for Android-based Smartphone's and tablets that is not just time however to boot space based. The system uses free, open API take pleasure in Google Maps. Timely reminder diminishes possibilities of missing of interest and task to be reminded will be performed on wished time and at specific area. Additionally, simple search is accomplished by finding near places of interest.

3. SYSTEM ANALYSIS

A. Existing System: The existing application has the ability to set reminders based on date and time. The problem with the system was that the user crosses the specified location but they was unable to get the task reminder about the location and if they are at another location then task reminder alert is displayed in this way there was no proper synchronization between task reminder and specified location. For example, when you have to be reminded about getting something from friend's home. At this time, user cannot be sure when he/she will be near friend home. So a time and date reminder won't be helpful over here. Some drawbacks of existing system are as follows

- searching for a location is difficult.
- Location cannot be set accurately.
- Only one task reminder can be set on one location.
- Date and time range is limited.
- Task cancellation and rescheduling the task is difficult. To overcome these drawbacks we proposed the application entitled "A Mobile App for Location Based Reminder".

B. Proposed System: The projected application has the power to line reminders supported location. It works by making a geofence around some location. A geofence consists of 3 things – the latitude of the situation, the line of longitude of the situation and a radius that must be fashioned round the location. Whereas setting the reminder, user additionally sets the situation of the reminder i.e. the place wherever this reminder must be triggered. Once the reminder is about, the geofence is made. This geofence gets activated once the user starts moving and if the user enters any of the geofence on the map, the reminder gets triggered reminding the user regarding the work that must be done. The map is shown in 2 formats – satellite read and traditional read. The satellite read shows the map in real time like roads, trees and buildings whereas the traditional read shows the map as in an exceedingly map book. This application additionally permits the user to line multiple task reminders at a similar location. And once the user reaches the required location all the tasks that ought to be performed square measure notified to the user so no jobs square measure incomprehensible or left incomplete. the most feature of the projected system is that the user will search the situation by coming into the situation name once the user is don't apprehend wherever the situation is precisely set.

4. MODULES DISCRIPTION

After careful analysis the proposed application is divided into following modules.

- Database
- Map
- Set reminder
- Settings

All are explained below:

1)Database:

This is the primary module of the project. It contains the list of the whole reminders listed one below the opposite. when clicking on any of the reminder within the list, user is given the choice to edit or delete the reminder

2) Map:

This module contains Google Map which is displayed for the sake of selecting the location by clicking on the page. After clicking on map, a marker appears to indicate the place that has been selected with a red circle around it that indicates the geofence

3) Set Remainder:

This page contains fields for title, description and placement name that is entered by the userof these fields are necessary for user understanding because the marker is hardcoded containing the latitude and great circle of the marker purpose that isn't in user perceivable format.

4) Setting:

This page contains settings related to the notification of the reminder such as notification tone, vibration preferences, etc

4. ARCHITECTURE

Device is use Google map to look location to line the task. GPS used for track the placement of that device. Task Scheduler is function that schedule the all task as per time and site. SQLite Database is database that used for android device to store the info. GPS means "Global Positioning System". GPS is receiving information from satellite that information wont to track location. GPS use three dimensions: latitude,

longitude and altitude.

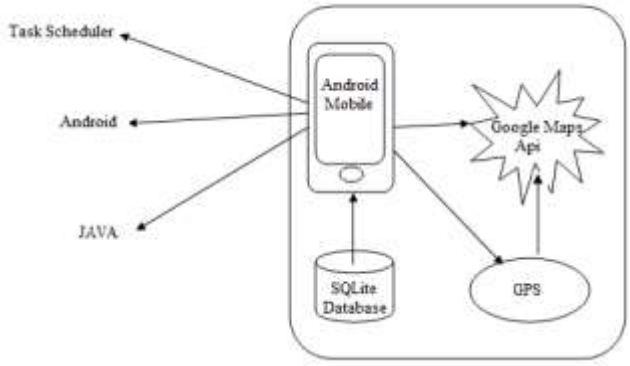

Fig.1. Architecture

4. GOOGLE MAP API

Google map API is that the revolutionary launch among the Google product. Most of the placement primarily based applications ar engineered by victimization this API to ascertain the geospatial data on prime of the customised map.

It provides the flexibility to the developer not solely to the consultants to make their own map. Throughout implementation this paper, Google Map API is employed to make a geographical illustration of the user's position mapped with the tasks.

This illustration are used permanently higher cognitive process concerning what to try to to next, supported wherever we tend to ar. Thus it's required to be integrated to tile the placement on prime of the map for providing higher designing concerning the tasks required to be lined by the user.

5. ADVANTAGES

1. Easy to know.
2. Easy to keep up database and fewer memory reserve.
3. Sync task schedule along with your trigger.
4. All task maintained by specific location and time.
5. Time and site are sync with one another.

6. DISADVANTAGES

1. Requires Internet.
2. Requires GPS enable devices.

7. REQUIREMENT SPECIFICATION

The main work focus during this paper is to observe user's location, creating map and optimize the route. So, the system where this concept is to be implemented should have the subsequent requirement.

1. Android version 2.3 called "Gingerbread" Gingerbread is open source Android mobile software. Gingerbread is employed in form of smart phones, introducing Google Voice, improved Google Apps.
2. Mobile network and Wi-Fi enable device Wi-Fi that's "wireless fidelity". Wi-Fi should be enabled to display the Google map. Wi-Fi may be a wireless networking technology. Wi-Fi uses radio waves to for Internet and network connections. The above requirements are needed to run the appliance in real device. If it's needed to run in emulator then the Android Virtual Device should be installed and selected.

8. FUTURE SCOPE

1. Making it accessible on the other Smartphone market conjointly.
2. Customization.
3. Encouraging distinctive and additional opportunist use
4. Apply for tiny space conjointly

Modifications (In close to future):

 First, offer the restricted text entry mechanisms accessible on mobile phones, however of associating audio messages or pictures with reminders might provide larger convenience encouraging distinctive and additional opportunist use.

 Second, it's additional acceptable to possess reminders supported location and time equally as date. As an additional feature,priority are going to be appointed to the reminders.

 Finally to naturally support the employment of revenant reminders, we have a tendency to propose a amendment to the pc program, rather than the application mechanically removing a neighborhood Reminder once it's detected and presenting it as an exact reminder notification, the applying would endlessly show a list of near Place Reminder as commotion item, sorted by proximity to the current location. Alerts might still be provided once location certainty is high.

9. ALGORITHM

o Asks whether to switch ON the GPS if not.

o Asks whether to use current locations

o If yes; GPS identifies current location.

o If No; retrieves last used location

o Enter the place of interest

o Searches the nearby places & gives the list.

10. CONCLUSION

The prevalence of mobile phones and therefore the generality of their networks create them a promising platform for private omnipresent computing. Our findings from a 2 week preparation of Place Reminder validate that location-based reminders is helpful even with coarse location-sensing

capabilities. Notably, location was wide used as a cue for alternative discourse data that may be hard for any system to discover. On the complete, it seems that the convenience and ubiquitousness of location-sensing provided by mobile phones outweighs a number of their current weaknesses as a sensing platform. This bodes well for the utilization of mobiles phones as a personal omnipresent computing platform. Our study disclosed surprising uses of location-aware reminders. we tend to found that Place reminder was typically used for making psychological feature reminders to perform activities that might vary in priority over time. This is similar to exploitation notepaper notes. In extremely visible areas for motivation. The locations for psychological feature reminders were typically set at various outlets.

In the fashionable life vogue folks area unit terribly busy & typically forget the tasks to try and do. over and over folks bear in mind the task when they travel the placement of interest. Going back to the particular location once more is time intense & wearying too. This application helps the user to achieve at actual location of interest in his most popular interval. Timely reminder reduces possibilities of missing the placement of interest & task to be reminded is performed on desired time and at desired location. This reduces time loss & disappointment.

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