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Location Based Reminder

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ABSTRACT

Goal of this paper is to manufacture an application utilizing which errands can be overseen in view of geographic area in an upgraded way. The venture utilizes geo area mapping utilizing GPS empowered advanced mobile phones, coordinated guide API and way streamlining. In this day and age brilliant cell phone gadgets has turned into a basic piece of individuals life. Among its different uses, building application to help area based administrations is a pattern now a days. Utilizing this LBS idea, this paper manages the procedure of assignment administration. Booking an arrangement or an errand and design it to remind on a planned time has turned into an undeniable normal action.

Keywords* : *Location Reminder, GPS, WIFI, Google Maps

I.INTRODUCTION

In current busy life style people have to perform variety of task in their day to day life like meeting at work, buying groceries, filling petrol after work etc. We generally use paper notes and now a day's reminder system in mobile phones. Various tasks can be categorizing as follows:

1. Task which is Time based
2. Task which is Location based

In "Time based tasks" the task which is starting at a specific time e.g. Meeting this is scheduled at 11 AM. We set reminders in our mobile for the same. On the other hand, in "Location based reminder" the task to be performed at specific location, like filling up the petrol while going back home from office. In such case setting alarm only by time might not be beneficial if user is not certain when he/she will be passing by the petrol pump. This has motivated to design location based reminder system. In this notification will be given & alert will be given as a reminder when you are going nearer to the petrol pump. The Location based reminder is example of location based services (LBS). Location based reminder application depends totally on the technology of Global Positioning System (GPS) to identify the desired location. This project aims to develop a location based reminder system using Google Maps API which takes help of GPS. Applications / services and Reach Common goals.

In this setting the innovative work difficulties to make a smart world are huge. A world where the genuine, advanced and the virtual are converging to make savvy situations that influence vitality, to transport, urban communities and numerous different zones more clever.

II.LITERATURE REVIEW

The popular reminders depend on electronic calendar in cell phones. These reminders are absolutely time based i.e. this will give notice just on at that specific time. Commonly it isn't confirmed that we will be present at the particular area for the work for which we have set the reminder. Rather it is gainful if the notice or alert triggers when we are really present close or at that particular area. To help current individuals to remember something at a particular time and area, Smart Location Reminder is a boon. To fill the need, implementing an application for Android-based Smartphone's and tablets which isn't just time based yet additionally area based. The system uses free, open API benefit from Google Maps.

Timely reminder diminishes chances of missing the area of interest and task to be reminded can be performed on wanted time and at specific area. Also Ease of search is accomplished by finding nearby places of interest.

III.REQUIREMENTS

The main work focus in this paper is to monitor user's location, creating map and optimize the route. So, the system where this idea is to be implemented should have the following requirement.

1. Android version 2.3 called "Gingerbread"

Gingerbread is open source Android mobile operating system. Gingerbread is used in variety of smart phones, introducing Google Voice, improved Google Apps.

2. Mobile network and Wi-Fi enable device

Wi-Fi that is "wireless fidelity". Wi-Fi is should be enabled to display the Google map. Wi-Fi is a wireless networking technology. Wi-Fi is uses radio waves to for Internet and network connections.

The above requirements are needed to run the application in real device. If it is needed to run in emulator then the Android Virtual Device should be installed and selected.

IV.ALGORITHM

- Asks whether to switch ON the GPS if not.
- Asks whether to use current locations
- If yes; GPS identifies current location.
- If No; retrieves last used location
- Enter the place of interest
- Searches the nearby places & gives the list.

V.GOOGLE MAP API

Google map API is the revolutionary launch among the Google products. Most of the location based applications are built by using this API to visualize the geospatial information on top of the customized map. It provides the ability to the developer not only to the experts to create their own map.

During implementation this paper, Google Map API is used to create a geographical representation of the user's position mapped with the tasks. This representation will be used for good decision making about what to do next, based on where we are. So it is needed to be integrated to tile the location on top of the map for providing better planning about the tasks needed to be covered by the user.

VI.GPS

GPS means "Global Positioning System". GPS is receiving information from satellite that information used to track location. GPS use three dimensions: latitude, longitude and altitude.

VII.ARCHITECTURE

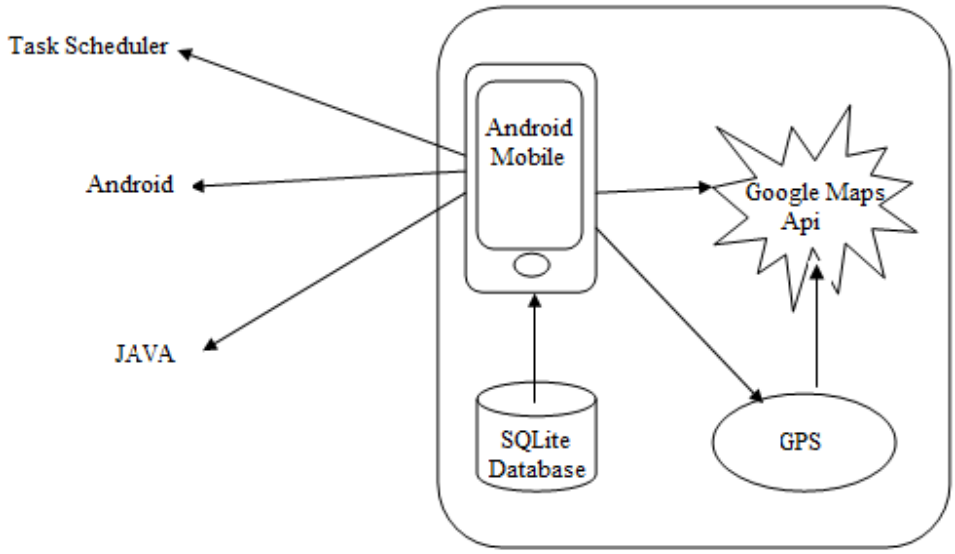

Fig.1. Architecture

Device is use Google map to search location to set the task. GPS used for track the location of that device. Task Scheduler is function that schedule the all task as per time and location. SQLite Database is database that used for android device to store the data.

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VIII.LOGICAL VIEWS

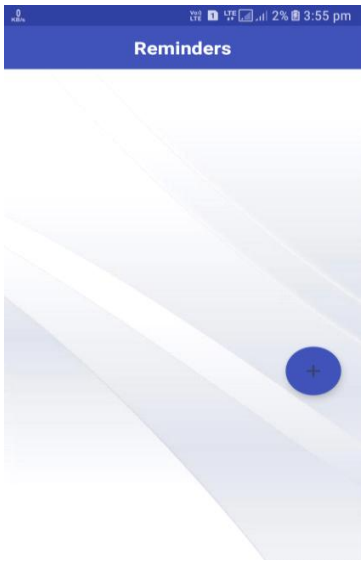

Fig.2 Main Activity

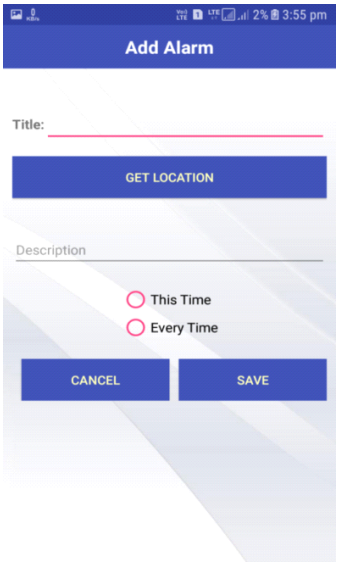

Fig.3 Register Activity

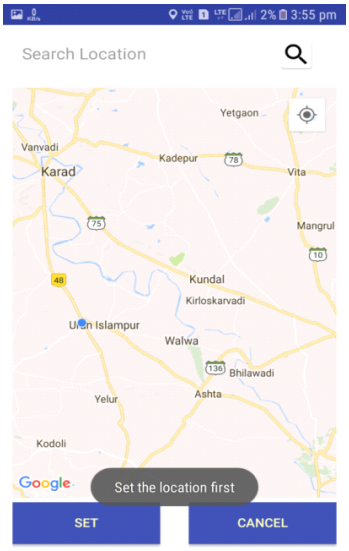

Fig.4 Google Map Activity-1

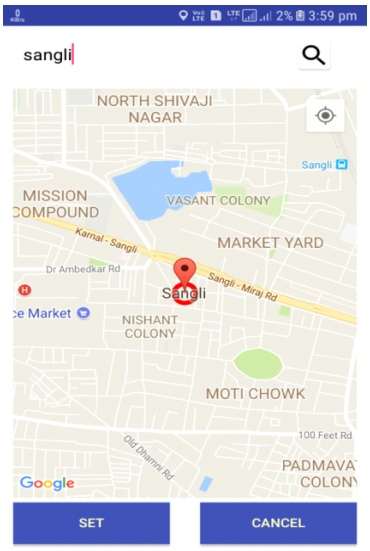

Fig. 5 Google Map Activity-2

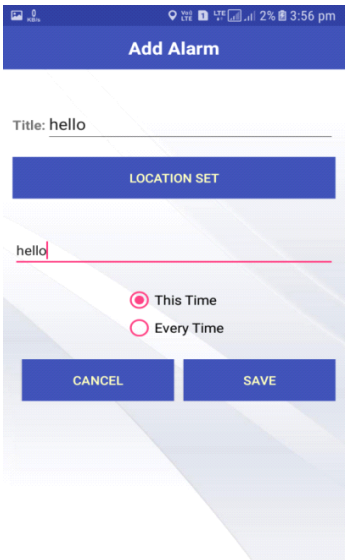

Fig. 6 Add alarm Activity

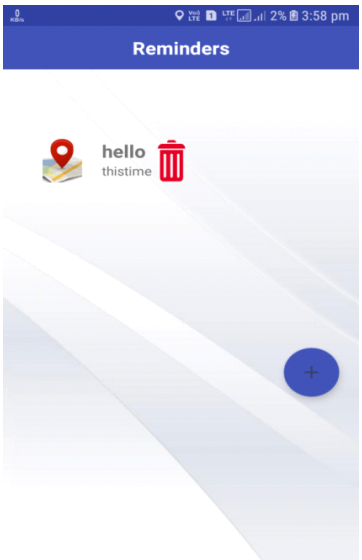

Fig.7.Main Activity display all tasks

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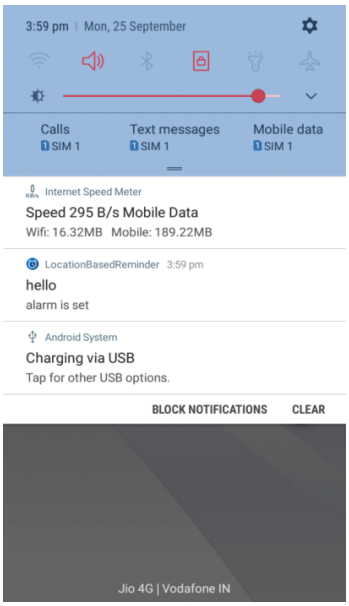

Fig. 8 Notification Activity (Alarm set)

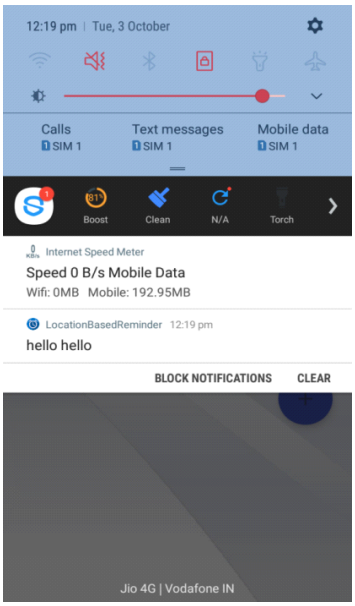

Fig.9 Notification Activity

Fig.10 Display activity

IX.ADVANTAGES

- Easy to understand.
- Easy to maintain database and less memory reserve.
- Sync task schedule with your trigger.
- All task you managed by specific location and time.
- Time and location are sync with each other.

X.DISADVANTAGES

- Requires Internet.
- Requires GPS enable devices.

XI.CONCLUSION

In the modern life style people are very busy & often forget the tasks to do. Many times people remember the task after they pass by the location of interest. Going back to the specific location again is time consuming & tiring too.

This application helps the user to reach at exact location of interest in his preferred time slot. Timely reminder reduces chances of missing the location of interest & task to be reminded can be performed on desired time and at desired location. This reduces time loss & disappointment.

Identifying desired nearby places is on figure tips of the user if the current location is unknown to the user. The application makes the search easy & faster.

XII.FUTURE SCOPE

This project can be extended to indoor reminder systems using WLAN. The application can also be utilized for tourist guiding system.

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