

Location Alarm Application

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Abstract— People may have different work at different places. They may forget to keep track of all the work which is associated at different places.

So we proposed a system where user will be reminded about his/her work at certain place where the work is associated with.

- 1) User must register by filling up the details required by the system. User must enter the user id and password in order to login to the system.
- 2) User will get the map in which the task location will be circled and user will get to know the distance between his/her current location and the task location. Once the user clicks the start option, user will get the notification as he/she reaches near to the task location.
- 3) Notification stops only when the user clicks the finish option in the system and the system will not show the completed task. As the user reaches the destined location, the alarm rings and even the associated message flashes on mobile screen.

The user may set, reset, disable, edit and set duration of the alarm as user wishes.

User may view the destined locations on a map to check how far he/she is from the destined location.

1. INTRODUCTION

Notify@Location or simply a location alarm is an application which is an easy way to remind the users his/her daily event's he/she is dealing with. All what user has to do is set a message by selecting his location where he has his work to do. The application will ring the alarm and display the message that user has set on the time and date decided by user. In addition this, this application will create a unique profile ID for every events so that it would be easy for user to create multiple id's and update every id's that are required to be changed in an easy way. Through this application, user will be able to know all the events in multiple places. This will save necessary time taken by users and provide smoothness to add, remove or update any event about any unique.

Scope

Current Scope

This application is developed passively and cannot take further improvements once it deployed. Currently it works on Ios devices only but further permeate to all operating systems.

Future Scope

The application can be further permeate to support all type of operating systems like Ios, Android, windows. It will use profile ID rather than to show every event in an exaggerated way.

2. RELATED WORK

There exist a number of location based systems that can automatically generate alarm by using mobile phone. Examples of such systems are described in the following links.

- 1) Wake App: Wake App is a geo-located alarm that goes off when the user is about to arrive at the selected destination. Once the user select stop on the map, the map closes and the application goes into the background periodically user location using the device's GPS sensor. When the user bus enters within a pre-configured radius from the stop the user is supposed to get off (default is 1000 meters), the alarm plays a ringtone of user choice. This application is used for train or coach travellers.
- 2) Bus Snooze: Bus Snooze is a GPS Location based alarm clock which will wake the user up when the user arrive at the desired location. The application allows the user to set location based alarm or time based alarm or both. The combined alarm will sound whichever arrives first – time or destination. The location tracking is done using GPS as well as the user network provider's location.

WakeMe: WakeMe is another location based alarm. It lets user to choose any location on the map and set up customizable alarms for each location and save them to be used at another time when the user ride the same route. At any time user can open the application to see how much kilometers or miles the user are away from desired stop. Optionally, it can warn the user if the device loses GPS or other location signal. Pros: Uses both GPS and network location, save multiple location for later use, use different alarm configuration for different location, speech alarm on supported phones. Cons: Cannot customize radius around destination within which the alarm will go off, very buggy with occasional crashes.

- 3) **Bus stop alarm:** Bus stop alarm will let users to set a location based alarm on their phone that will go off when they get close to the preselected bus stop. The idea is very innovative in that it is the first android application to incorporate publicly available bus information and GPS in an innovative bus stop alarm system. This application allows users to take advantage of the publicly available bus data and presents it to the user as an intuitive bus stop alarm application.
- 4) **Mobile Location Alarm:** Mobile Location Alarm allows user to enter new alarm for a particular location and ring the alarm along with the remainder text when the user is near to the location. It allows user to edit, delete, update, enable and disable the alarms. In addition, user can see the locations on map to find out how far he is from the expected location.

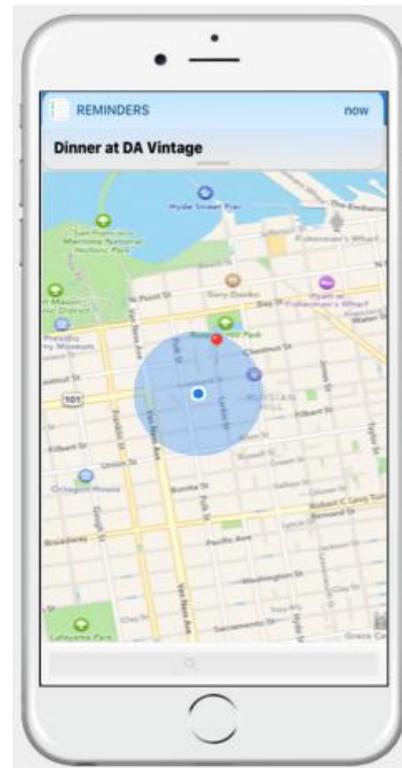
3) Proposed System

Our Application works on ios 10.3 or higher. It mainly utilizes device's GPS to track the position of the user. So, while using the application for the first time user need to give access to the location system of the device. The application needs internet connection all the time.

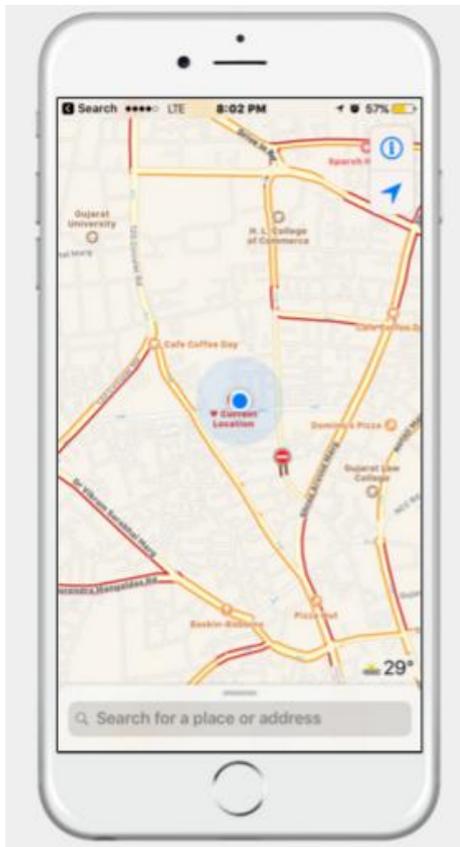
A) How it works:-

- 1) For the first time, the user has to create a new account which is a mandatory process for application to work. Existing user just need to log in while firing up the application for the firsttime.
- 2) User will get the map in which the task location will be circled and he will get to know the distance between his current location and the task location. Once the user clicks the start option user will get notification as he reaches near to the task location.

- 3) Notification stops only when the user clicks the finish option in the system and system will not show the completedtask. As the user reaches the destined location, the alarm rings and even the associated message flashes on your mobile



screen.



4) Conclusions and Future Improvement:

The final system allow user to easily activate alarm in the mobile device. Based on the saved location on the mobile device, alarm will ring automatically and display remainder message when the user reaches the target location. The system will also integrate additional settings into the system. This mobile alarm service will act as assistance for the frequent travellers to visit new places.

- Future Work:- Scope of Future Application The future application of this system is to include voice message. Voice message enhances the usability of the application. Currently, system ringtone is used as the default ringtone in the application. However, choice of ring tones could be provided from the audio gallery, since it has volume control and vibrates mode control settings.
- Scope of Improvement:- The possibility of improvement of the system includes: improvement of the precision of the GPS system positioning, activation of alarm within a certain date and time, determining the distance from the point at which the application is to alarm us, sharing of alarm with other users (sending/receiving) etc.

5) References:-

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