

LOCATION REMINDER BY USING GPS

(G-RAPPLE)

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Abstract: Personal task reminders are in dispensable for contemporary folks, so as to cue them of their tasks at specific circumstances. Ancient paper primarily based reminders area unit still helpful, however they can't be organized with efficiency. Electronic reminders supported the calendar in Cell phones area unit additional economical and gaining quality, however such reminders area unit largely triggered by time. In several things, tasks area unit solely significant to be performed at a particular location, therefore it might be helpful if reminders for those tasks are often triggered only the person to be reminded is physically close to or settled at that location. Therefore, during this analysis, we tend to develop a location-based personal task reminder for Android-based good phones and tablets. To tell apart our work from existing ones that depends only on the GPS technology. This technology makes it doable for the non-public task reminder to be effective in each indoor and outside environments. This is often associated in nursing application that helps business folks to coordinate their daily activities 'with their rigorous business schedules.

Keywords: GPS Technology, location-based personal task reminder.

I. INTRODUCTION:

This Project relies on victimization GPS. To cue trendy people of 1 factor at a specific time and placement, sensible Location Reminder is also a boon. The system uses free, public API service from Google Maps. The GPS system helps the user to induce the current location. Location primarily based reminder services. Google maps can show map footage, topographic maps, satellite footage and hybrid footage

1. Motivation: The existing system is doing all the processes manually by making to notes or later the systems are based on time. The user needs to do the list of the entire task he has to perform with the details of time. This is so tedious and not always right as we can't do the thing on time. This process is so difficult because we have to carry notes or have to do things on time which is not always possible.

2. Literature Survey: In daily life, everybody has some task that must be completed for completion of a task; the folks must keep in mind the task and act consequently so as to finish the task. However due to feverish schedule and every one the hustle and bustle happening in one's life, there's high chance that person might not keep in mind the task. This can be a typical state of affairs with United States of America human as we tend to tend to forget things that aren't necessary or of a lesser priority. The project Location based mostly Task Reminder will facilitate the user of the applying to stay track of the task .In later time, folks use to Chapter a pair of seven prepare their kerfuffle list on paper. It had been quiet feverish since one must carry the paper, keep paper safe and there was a high chance of paper obtaining lost. Attribute able to of these reasons, noting down task on book or paper is unquestionably not a viable possibility. Then with advent and growth of technology, the kerfuffle list as application on mobile and pc came into existence .It was quite a thriving application and still living. However the straightforward to try and do list application lack pursuit and notification feature. Thus there's high chance that user of the applying might not keep in mind to ascertain out the kerfuffle list. Thus there have been the drawbacks of earlier task pursuit systems that were living.

3. The project needs the user enter the situation at that he/she needs to complete the task. Whenever user passes by that location, the applying reminds the user of the task facultative the user to finish the task as promptly as potential. The technology used for pursuit location is GPS. GPS is world Positioning System that allows the user to understand the situation.

The Task hunter is novel in its combination of many key options of time-management and prompting Systems which might be most helpful to those attentively deficits, specifically those battling selective attention throughout daily tasks:

- 1) A progress bar to visually represent time passed and time remaining,
- 2) Alarm reminders to induce the user's attention just in case they need become distracted, and
- 3) A psychological feature message to urge them to stay operating towards task completion. These mix unambiguously into one application geared toward pursuit a selected task that the user is presently operating to finish.

II. RELATED WORK:

With location positioning system like GPS turning into commonplace, there is a growing demand for location-based applications. It's easier, these days to utilize map information by connecting GPS receiver to laptop and organizer. Love this momentum, GPS receivers unit of measurement presently embedded into mobile phones and applications victimization true of the user in amount of your time unit of measurement wide out there. GPS chips unit of measurement presently engulfed in many devices to analyses satellite signals and verify the user's location with high accuracy.

The development of mobile map and web site applications is advanced and hard, and it's generally required to pay high copyright fees to map makers. Location is free and open, providing an easy to use development kit containing versatile map show and management functions. This paper introduces the look and half models of location, associate degreed associate the anatomy of an location application furthermore because the functions of Activity, Intent Receiver, Service, Content provider, and etc. supported android's support over varied parts a location primarily based mobile service square measure typically enforced to draw the driving trace, to perform question and to flexibly management and amount of your time map on location.

III. PROPOSED WORK:

Proposed Application accepts the time moreover as location of the task. According once you pass close to any market you'll be reminded to shop for vegetables etc.

3.1 Final Objective:

The project Location based mostly Reminder will facilitate the user of the appliance to stay track of the task .In later time, individuals use to arrange their disorder list on paper. it absolutely was quiet agitated since one must carry the paper, keep paper safe and there was a high risk of paper obtaining lost. Thanks to of these reasons, noting down task on book or paper is certainly not a viable choice. Then with advent and growth of technology, the disorder list as application on mobile and pc came into existence .It was quite triple-crown application and still existing.

3.2 Constraints

The GPS is also a space-based satellite navigation system that has line of meridian and latitude of location altogether climate.

3.3 User needs

In standard of living, everybody has some task that must be completed for completion of a task; the individuals must keep in mind the task and act consequently so as to finish the task. However thanks to agitated schedule and every one the hustle and bustle happening in one's life, there's high risk that person might not keep in mind the task. This is often a typical scenario with America human as we have a tendency to tend to forget things that don't seem to be necessary or of a lesser priority.

IV. ARCHITECTURE DIAGRAM

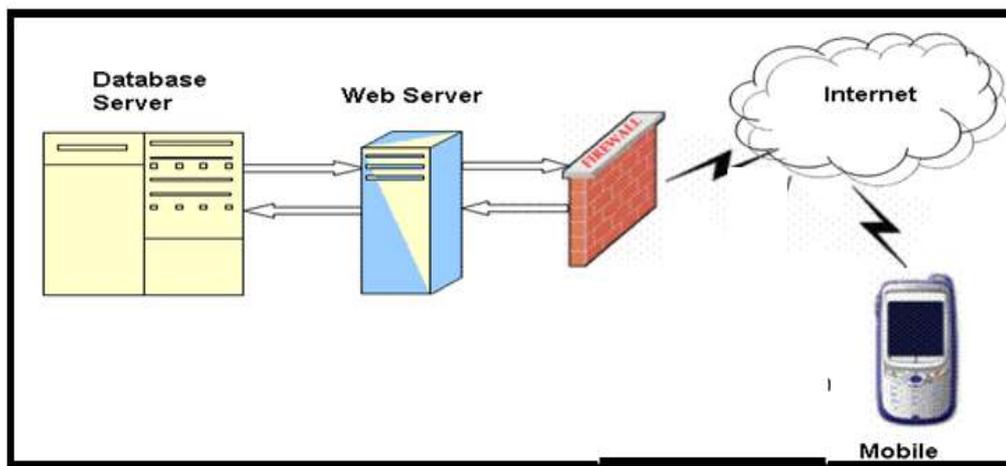


Figure 1. Architecture diagram of purpose system

V. IMPLEMENTATION & RESULT:

1. User will produce and edit event as per his/her needs.
2. System will transfer location information.
3. Then system will search functions victimization location info of the user.
4. show search result on screen additionally because it starts alarm once he reached on explicit location.

5.1 Shorted path algorithm:-

- A shortest path formula could be a program, or set of directions that may be dead to produce the shortest path between locations given bound conditions and methods. Conditions like traffic density speed of travel, and others, additionally as geographic obstacles may be factored in to assist the formula execute and show the shortest path.

Shortest path formula is employed to search out the shortest distance from one node to a different node.

- With the assistance of this current position is retrieved at any purpose. By exploitation this current position, the space may be determined from one node to a different node.
- **Steps in shortest path algorithm-**

Step 1. Initialization

Assign the zero distance prices to node S, label it as permanent.

Assign to each node a distance price of time and label as temporary.

Designate the node S because the current node.

Step2. Distance price Update and Current Node Designation Update

Let i be the index of this node.

Find the set J of nodes with temporary labels that may be reached from this node i by a link (i, j). Update the space values of those nodes.

For each j belongs to J, the space price dj of node j is updated as follows

New dj = min

where cij is that the value of link (i, j), as given within the network drawback.

Determine a node j that has the tiniest distance price dj among all nodes j belongs to J

realize j* such min j belong to J dj = dj*

Change the label of node foreign terrorist organization to permanent and designate this node because the current node.

Step 3. Termination Criterion

If all nodes that may be reached from node s are for good labelled, then stop - we tend to area unit done. If we tend to cannot reach any temporary labelled node from this node, then all the temporary labels become permanent - we tend to area unit done. Otherwise, visit Step a pair of.

5.2 flowcharts

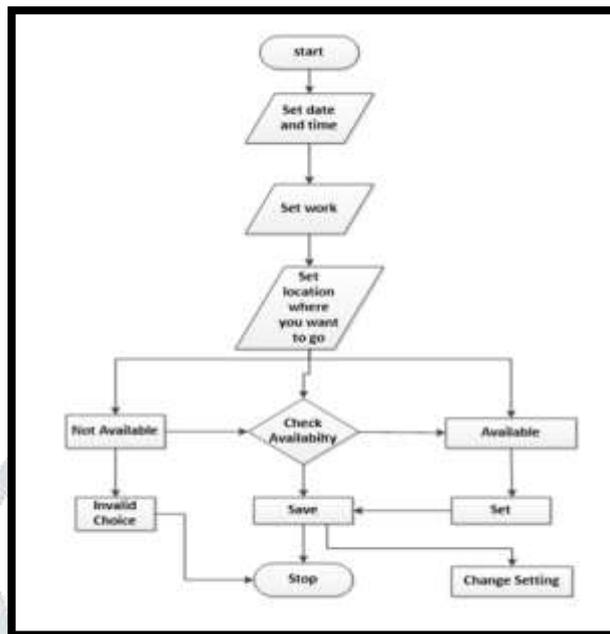
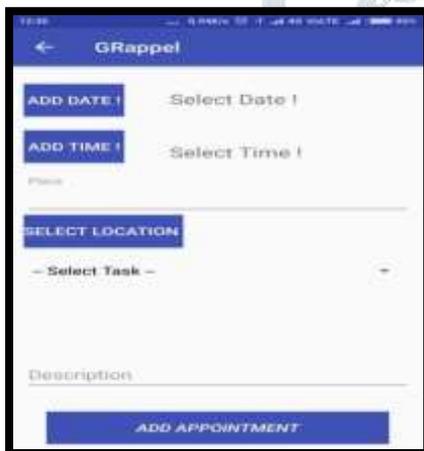
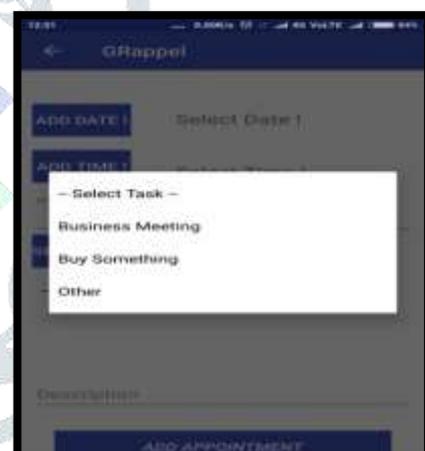


Figure 2. Flowchart of purpose system

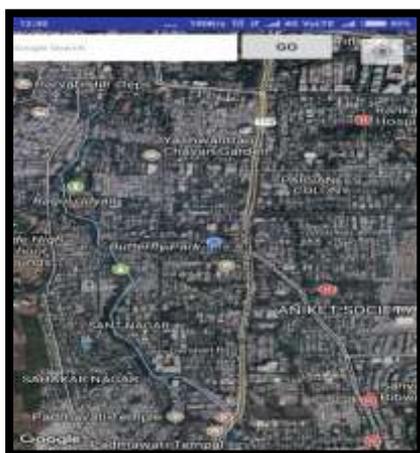
5.3 Working modules Screenshot



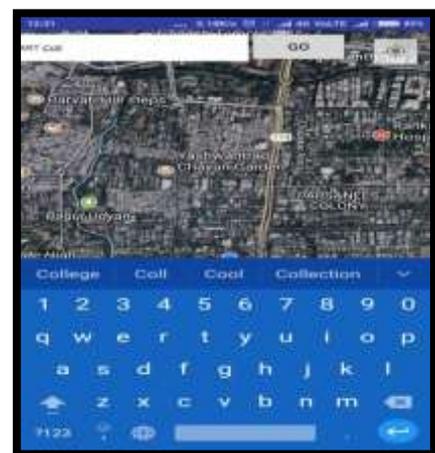
Screenshot 1: Set appointment of task



Screenshot 2: Set appropriate of task



Screenshot 3: indicate Current Location



Screenshot 4: Set Destination Location

VI. ADVANTAGES

- The location alarm is related to a reminder messages.
- The user could set, reset, disable, edit and set period of the alarm as he desires.
- Because the user reaches the alarm ring and even the associated messages flashes on your mobile screen.

VII. CONCLUSION AND FUTURE ENHANCEMENTS

- Location primarily based reminder system provides associate degree interactive service to its user. This method gives the protection to user in terms of saved location knowledge for reminder.
- The applied algorithmic rule can offer the short response to the user in milliseconds once condition between the saved location and therefore the current location area unit matched.
- In future developer will increase the vary round the destination. The reminders are often set for teams. If one in all the members of the cluster reaches the destination, then different members can get the notification. Build the appliance out there on different platforms.

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