

# Users Task Personalizing by LBS

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**Abstract**— As the user demand is moving more towards smart application which makes phones as smart phone. But we are having the facility to set the reminders to remind us about the tasks but problem in that is it is bound with the time (time triggered) but the reminder is only useful if the user is at the place where he is able to perform that task even though he is not at the right place the reminder is triggered and user has to make remind later or has to make it as finished So we are going to provide the services based on his geo-location. It will be helpful if the reminder is being only generated if the user is at the place or near to that place. But in many cases the user will not be aware about the time and date, but he will be aware about the place where he wants the reminder. So in this research we are going to create a smart android application which will remind us only when we are at that place. So to implement such a application we are going to use the GPS technology which is inbuilt present in latest Smartphone. GPS gives a very efficient feature to track the location. In this android application we are providing the features like profiling, reminders & advertisements based on the users geo-location. The information about the user (his reminders and profile) is stored in SQLite database and the advertisements to the client or user or client who is using the application will receive the advertisements. In early era mobile was just for the communication purpose but in this new era it is for only smart applications which are either innovative in nature or very useful in nature.

**Keywords**—Location based reminder, GPS, SQLite, Geolocation.

## I. INTRODUCTION

As the humans are getting busy more and more and they have to perform more tasks it is getting very hard to remember and perform those tasks and as for professional person if he forgets to perform any one of the tasks then it will be problematic for him/her. So this android application will help the user to perform the task without worrying about remembering the tasks which he/she has to perform. The android application will be responsible for checking the database if any task is present for the user at the place where the user is in. The application will make the list if one or more tasks the user has set for the location. Then one by one the notifications are given to the user. The other task which the application performs with profiling and checking the reminder is that it receives the advertisements present for the user at the Geolocation he will get the advertisements which are inserted or present at the server. But if the user is using the application he just has to insert the desired reminder and the location where he wants the

reminder and to he has to set the profiles for him at the location. For reminding the user with the correct reminder and at the correct place the inbuilt and latest technology is used which is free of cost to use the service is GPS. Due to the invention of GPS technology which provides the location of user in terms of latitude and longitude then based on this location the application will request the information from the server and with this task the application will also process and check the reminders and profiles present for him at his location to which he is present.

This Location based services application offers the services to the users are:

1. Allows using the reminders service.
2. Allows using the profiler service.
3. To receive the advertisements.
4. To get nearest friend notification.
5. To get nearest family notification.

This application can be used by the business professionals, professors and student to set the reminders about their tasks. The advertisements feature can also be utilized there for sending the notices, sending reminders, suggesting students about the coaching classes nearby

With the help of reminder feature the user can totally rely on the application for the tasks he needs to perform on the Geolocation. With the smart feature called profiler the user do not have to worry about managing the profiles the mobile. Once the profiles for the mobile at the desired location are customized then the profiles will automatically set. So because of that the environment will not be disturbed. As you enter in the office campus or for a student if he enter in the college then his mobile will get silent automatically without manually setting it. And once he/she leaves the college campus the profile will get set to ringing mode.

## II. SYSTEM ARCHITECTURE

This application extracts the current location of the user by using the GPS of an android mobile. Then it sends this information to the server for processing the information further and to locally some processing is done for checking the tasks for alerting him about it and after that the profile is also checked if any for the location.

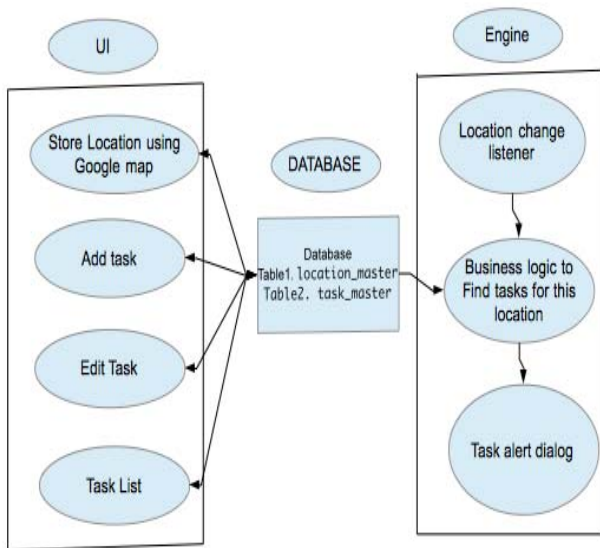


Figure 1: Architecture

The base of the application is the map fragment where the maps will be loaded and the visualizing of all the maps are shown to the user. The user has to first store the location for this we have provided the map fragment then by the use of reverse geo-coding we will find the address for the location where the user have touched. Then at this location the user can set either the reminder or the profile for the place. Then this location is stored in the local database (SQLite Database). Each and every task has to travel through the life cycle shown in figure. If in future when the task is open then the user if willing to modify the task or information about the task then it is possible by the use of Edit Task. All the tasks which are unfinished and when the user will enter in the Geolocation then the alert will come such a tasks are shown in Open state

In the android application from here the user can make any task directly finished he can remove it. If the task is alerted and the user wants to remind it next time the it will be inserted into the reopen state.

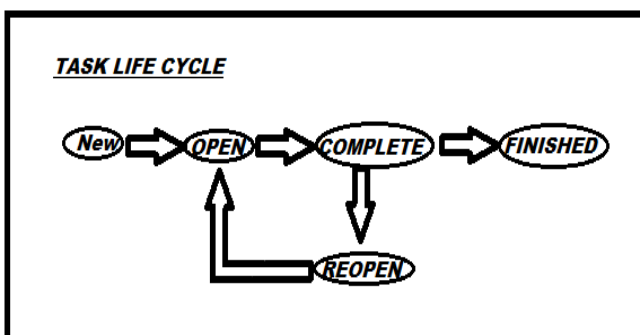


Figure 2: Task Life-Cycle

### III. IMPLEMENTATION

How the processing is done for the application is explained in more detail in following steps.

The application works as mentioned steps.

1. The application will request the server for the advertisements if there is on the server. The request will consist of the user id and the subscription values (feature which he wants) to use the service.

Ex-

`http://serverip:portno/LocationServer/?ID=101&ADD=1&FRND=1&FMLY=1`

2. Then this HTTP to the jsp page is accepted by the server and the authentication check is performed for the user if the user ID is present on the server then the request will be processed else the request will be rejected.
3. After accepting the request the server will provide user the service which the user requests.
4. The latitude and longitude will be checked at the server if he is near to that area then the advertisement will be send to the user in response to the request made.

For the tracking to friend and family for each request made by the user the current latitude and longitude will be stored in the database. If the user wants this feature then his location will be matched with the location of his friends if match is present then the user friend location will be send to the user who requested the information.

### IV. PROPOSED SYSTEM FOR ANDROID APPLICATION

All the features mentioned are developed practically and the final look of the application in android mobile is shown in figure.

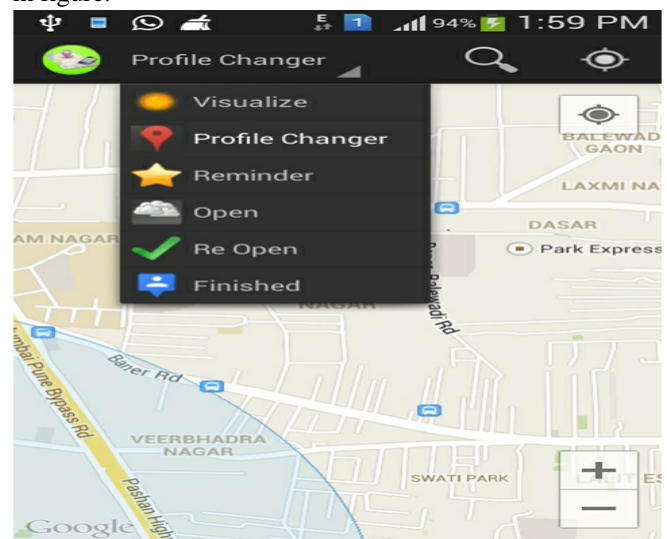


Figure 3: Home Screen.

This is the home screen where the use can visualize all the features present in the application.

### V. RESULT

In this section i am going to show all the screenshots of the application in the real time environment at the geo-locations.

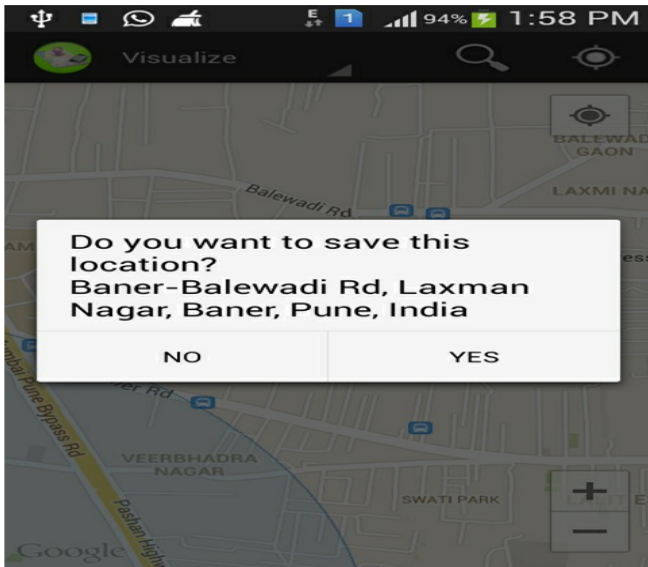


Figure 4: When user clicks location on map.

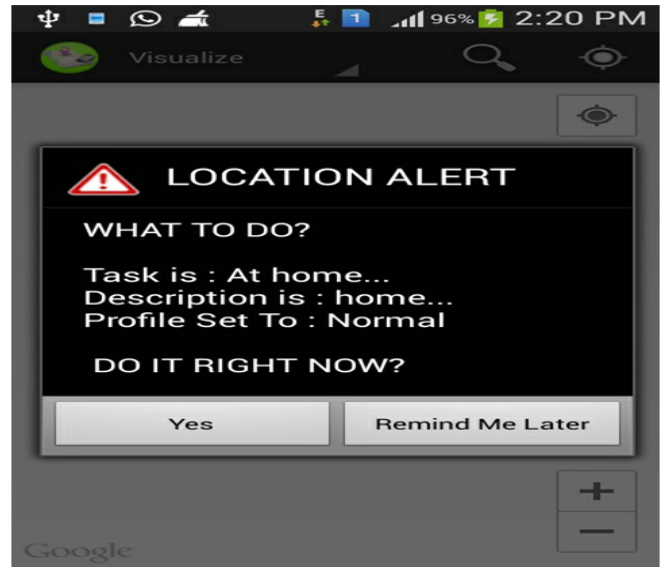


Figure 7: Location Alert.



Figure 5: Setting Users Profile.

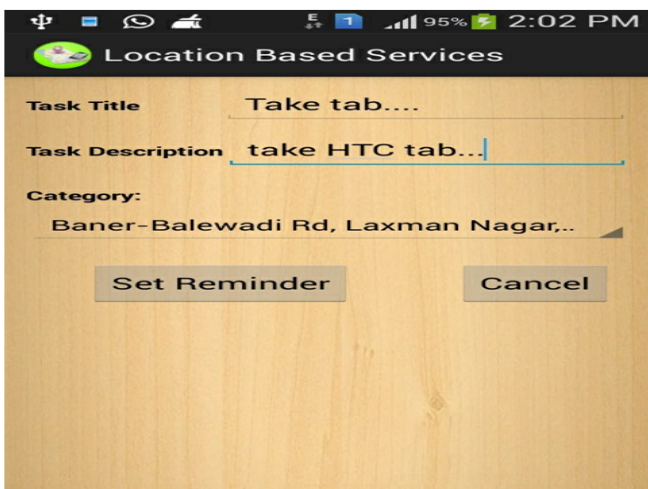


Figure 6: Setting Reminder.

## VI. CONCLUSION

In this research paper we have shown that how we have practically implemented the reminder and profiler features so that it will help the users to perform their tasks without worrying about the strength of their memory to remember the tasks to be performed.

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