



# Implementation of User Tracking System in Social Networking using Android

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## ABSTRACT

This paper aims to present a system that interprets the social nature of a human being need to be always in touch with friends. As there is no society without communication, so there is no person without social interaction. The role of this application is to create a social network in which the user gets a friend's location when he will pin their friends on Google Map through this application. The users have the possibility to check in some locations and allow their friends to follow their activity. This application comes with new facilities in comparison with existing solutions. It is related to the fact that users can share their locations with others (like family, friends, colleagues, etc.). By using GPS, the location is tracked which enables android mobile phone.

**Keywords:** Social network, Google Map, GPS, Android mobile phone.

## I. INTRODUCTION

In today's world, the social network is an essential part of human occurrence. Over time, forms of communication and understanding about this process have been expanded based on technological progress. The desire to use the phone not only to call someone or send and receive SMS has been perceived by Google. As smartphones are providing various unique facilities, day by day more and more people get attracted to them. Thus here, including base possible features and resources has become the need of the day. GPS is one of the resources which offers an outstanding service of getting related locations. GPS analyzes and stores location data from satellites signal and saves it for transmits in real time. The activity such as real-time location (on Google Maps). This application comes with new features in comparison to the existing solutions.

## II. OBJECTIVE

The smartphone is the major resources of the present system for speedy and smart activities. So, we are going to develop a system which allows a user to share their location. The main objective of this application is Location Tracking in which User's android phone is tracked and updated in real-time in Google maps.

## III. LITERATURE SURVEY

### 3.1 In Social networking smartphone through a prototype implementation using android.

**Authors: Anil Kumar, Prem Mithilesh, Chandra Kiran, Vinay Gautam, S Jaya Kumar**

In this paper "Social Networking in Smartphone through a prototype implementation using Android", we are going to introduce and develop a

system which brings user across various corner's together and lets them connect. This paper gives basic concepts about tracking the location of a user using GPS service. The main objective a developing a social network application is to provide an easy accessibility and communication for users in a secure network [1].

**3.2 Friend Finder Navigation android application to meet new people around**

**Authors: Navin D. Waghwani, Ravi Jayaraman, Umesh B. Waghmare**

In today's scenario, mobile computing has advanced to such an extent where the user has access to all the information on a single device. Location-based services offer many advantages to the mobile users to retrieve the information about their current location and process that data to get more useful information near to their location. Location-based friend finder is a mobile social networking application that could be used to locate a friend on Google map, share information with each other, create and manage events, create groups with the interest basis. Also, it gives notification to the client displaying the nearby events on his interest basis [2].

**3.3 Mobile Tracking Application**

**Authors: Radhika Kinage, Jyotshna Kumari, Purva Zalke, Meenal Kulkarni**

Personal Tracking Systems are the tracking devices specially built up for personal information. The person takes it with him and the information of where he is present is provided. The same system has been implemented in this mobile tracking application i.e TrackMeApp but various extended features that the existing system does not have. This system is GPS enabled android mobile phone whose location is tracked. Our application provides the

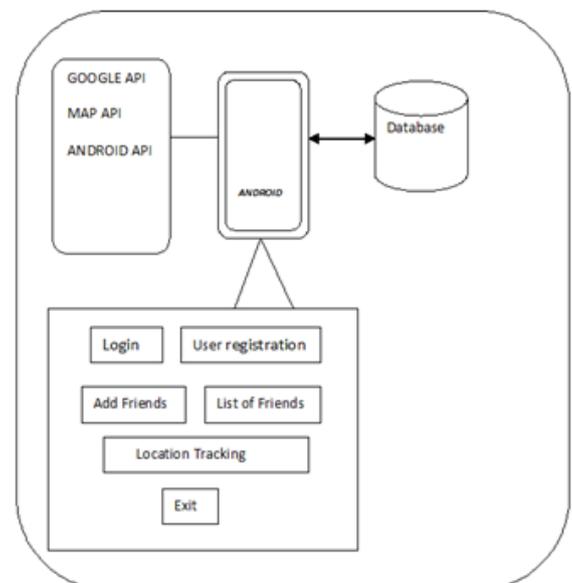
functionality of defining the geo-fence areas as safe, risky and highly risky [3].

**3.4 Android Parental Tracking**

**Authors: Tejal D. Katore, Gayatri R. Ghogare, Dipeeka R. Shinde, Tejaashri M. Ghule, Prof.Tamhane**

The project is designed to be used by parents and aimed to help locating missing or lost children. Also, the children surf over the net, so the browsing history of the children can be seen by the parents. It takes advantage of the fact that many of today's children bring smartphones which is convenient for this kind of situation. In this work, GPS is used along with one of the basic service of a smart phone is SMS. An application at the parent side will allow parents to send a location request to a child side then retrieve the location from the request reply and shows it on a map. On the other hand, the application at the child's side gathers the necessary information of the smart phone that will be used to locate the smart phone [4].

**IV. SYSTEM ARCHITECTURE**



**Figure 1. System architecture**

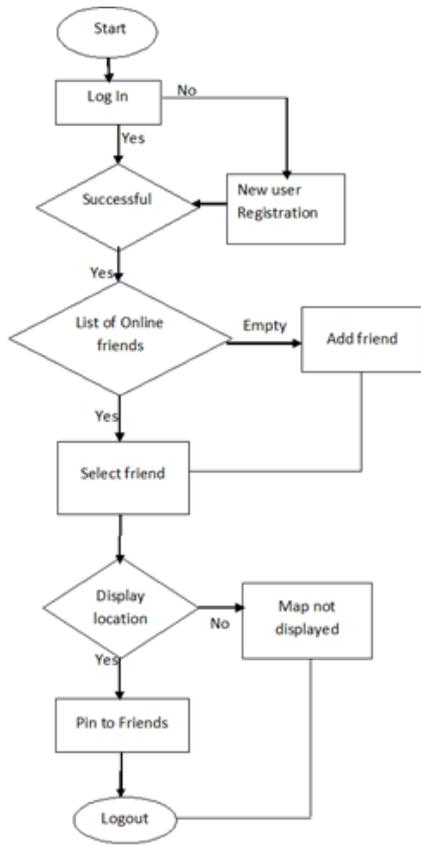


Figure 2. Flowchart

**Technologies used**

1. **Google Map:** Google map is a web-based service that provides map view and satellite view of many places. User’s friend location found by Google map. To display the items by Location Manager tool, one can use the Google Maps external library.
2. **Google API:** Google API is a set of application programming interface developed by Google which allows interaction with google services and third-party applications can also take advantage of this services using Google API for creating Android apps.
3. **Android Location Services:** Location-based information is most important in android mobile application development. Android offers this service, using network location providers, which identify the user’s location using GPS. To

get access to this information, an Android developer may use the classes from android.location package, which includes members such as: LocationManager , LocationProvider, LocationListener

**Modules**

1. **Registration and login:** Register allows user to create an account in order to use this application. In registration process user have to require add email id, password. After registration user login with their email id and password.
2. **User profile**  
User profile indicates the user details and display the online status of user’s friends.
3. **Tracking of location**  
Using Google Maps the current location of user’s friends will be identified. It tracks the current location of all members who are online and added in the list.

**V. CONCLUSION**

Our paper “Implementation of User Tracking System in Social Networking using Android” is an application development on android platform. It is classified into one main phase is location tracking. This application uses Google map API and get the user tagged along the map. For this purpose, Android location services like GPS technology are used to find and approximate location of an android mobile phone running this application.

**VI. ACKNOWLEDGEMENT**

We would like to extend our sincere gratitude and thanks to our guide Asst. Prof. Mrs. Yogeshwari Sarode, for her invaluable guidance and for giving us useful inputs and encouragement time and again, which inspired us to work harder.

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