**Review Paper** 

Volume-03, Issue-02

E-ISSN: 2347-2693

# **Review Paper on Tracking and Its Types**

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## www.ijcaonline.org

Received: Feb/2/2015 Revised: Feb/10/2015 Accepted: Feb/20/2015 Published: Feb/28/2015

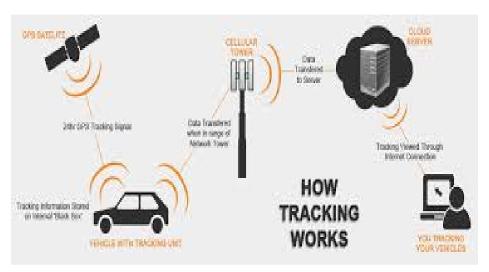
### 1. ABSTRACT

**Tracking system** is used for the observing of persons or objects on the move and it supplying a timely ordered sequence of respective location data to a model. There is different type of tracking. One of the most important tracking is mobile tracking. **Mobile phone tracking** refers to the ascertaining of the position of a mobile phone. In this paper student information tracking system is the technique in this we are willing to fetch the information about an individual student and pass it to the authenticated user only that individual can see this send information from student device (android phone). This paper provides the communication between several of the users i.e. college, staff, student, company, Employees etc. The information such as the student call logs, browsing history, their current location etc. all with the time stamp are fetch from the devices and pass it to the user specifies such as Parents, teacher and /or any authenticated person.

# KEYWORD: GPS,SIM,GPRS,

### 2. INTRODUCTION

Modern mobile based on An **Android operating system.** Android based on the <u>Linux kernel</u> and currently developed by <u>Google</u>. Anroid provide different application ("apps"). Android provide some "apps" for tracking. There are different technology of mobile tracking such as network base, WiFi based, SIM based etc. In this paper we introduce novel application for tracking which is based on Android base mobile phone. This technology based on Hand-set based tracking system.



### 3 .LITERATURE SURVEY:

There are many application available for the tracking like Student Management System, Bug Tracking System, GPS tracking system etc. The main purpose of a tracking system is to determine the location or direction of a target on a near-continuous basis A Student Information Tracking System is software program application that helps the college and school establishment to manage the student reporting and activity. In this tracking system we can track the student information by using android devices. This paper is help to the college administration in maintaining discipline in the college campus thus preventing any mischievous act.

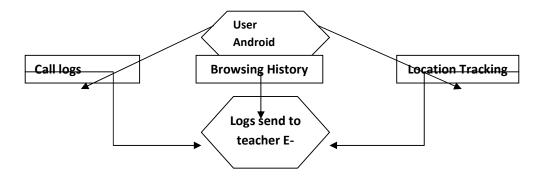


Fig: Architecture Of Proposed System

# 4. Techniques of Tracking

### **Mobile Tracking:**

Mobile tracker is to locate a user number, type the ten digit number to get the user location, service provider and signaling. We are not charging money for this tracing or tracking. Tracer can be used to find called number information for the entered input[10]. We are not storing user number in our data base to locate the provider details. Mobile tracker will provided track the details only for online. Tracing and locater service will be useful if you get missed calls often and you need tracking[03].

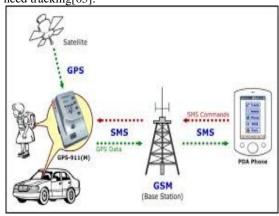


Fig: Mobile tracking system GPS TRACKING:-

It is more difficult to track a vehicle, person, pet, or piece of property with the help of GPS and it is costly process. But now a days GPS tracking is very accessible to consumers, for a wide range of purposes. A GPS tracking is uses the Global Positioning System to determine the precise location of vehicle, person and other assets[09].GPS gives the best capabilities in locating the position and also it is used for developing the resource full application.GPS system can be mostly used for to get any location which includes details like Latitude, longitude and also altitude values along with the timestamp details. The another important feature in GPS it free of cost for the every individuals. The device like Mobile Phone which fetch the GPS location with the server using General Packet Radio Service (GPRS)[02]. Combination of both GPS and GPRS technologies provides a constant ,continuous and real time This recorded location data can be stored within the tracking unit and it may be transmitted. The mobile phone application whose track the GPS location and send this information about remote location by creating the GPRS packet. All this mobile phone application has been developed on an Android Phone.

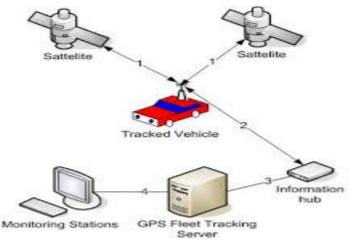


Fig: GPS tracking system

### **REAL -TIME LOCATING SYSTEM:**

A real time system is one in which the correctness of the computations not only depends upon the logical correctness of the computation but also depend upon the time in which the result is produced[07]. The real time systems process inputs, take correct way of decisions and also generate output necessary to control the peripherals connected to them .This system viewed as organized collection of software extensions of hardware, consisting of control routines for operating a computer and generating an environment for execution of programs[01]. Most real time systems interface with and control hardware directly. Real time Applications can be either in the form embedded applications or nonembedded (desktop)application. Most of today's real time embedded systems are like to work in dynamic environments, where the characteristics of the computational load cannot always be predicted in advance.

Advantage:-Real Time Locating System is efficient and ease to use,

Disadvantage:-1.It directly impact the feasibility of task schedules in real-time computer system.

2. The working of real-time system must be predictable in all situations

## **BUG Tracking:**

A Bug Tracking system is a software application which is used to keeps track of reported software bugs in software development projects. It may be called as a type of issue tracking system[08]. There are many bug tracking system available such as distributed bug tracking, local bug tracking etc. Most of the bug tracking system which are used by open source software projects, allow end-users to enter bug reports directly other systems are used only internally in company or organization doing the software development. Typically bug tracking systems are integrated with other types of software project management applications[05]. Also bug tracking system is usually a important component of goods software development infrastructure and consistent use of a bug or issues tracking system is considered one of the "hallmarks of a good software team" The main benefits of a bug tracking is to provide a clear centralized overview of development request and their states.



Fig: Bug tracking 5.APPLICATION OF TRACKING:

- Records the log of web browsing by each user.
- Restricted the website which are not permitted in the college or society or which are banned to use.
- Keep the surveillance on the staff and student to make the web users are more useful.
- This application is more effective it can use to help in proper control of lectures over their students during lecture.
- Student cannot indulge themselves in any mischievous activity.

### **6.CONCLUSION:**

- It includes the latest technology as JAVA, ANDROID, XML, DATABASE which embedded itself in android device as SQLite. As all the software used are open source thus costing of paper would be less.
- It helps the colleges to keep track on the students ,also crime branch etc.
- The student class or college bunking may also be tracked.

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