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Student Information tracking System

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Abstract*— An Android application provides interaction between people. In this paper, basically focus on the student activity. Now a day's students are fad on their cell phones to chatting, internet surfing, calling, etc. during the lectures. So this application may help college to spy on their students. The application tracks student activities like call logs, location, surfing information from their cell phones. The current location trace by using GPS system to keep track over them, get information and keep surveillance on them. Such activities would be sending in the form of text message.

Keywords: GPS, Android Application, SDK, Eclipse IDE, etc.

I. INTRODUCTION

Android is the mobile operating system developed by Open Handset Alliance led by Google. Android is the Linux based, open source operating system. Android operating system is user-friendly so people are demanding the android mobile phones. In this paper, we are willing to fetch the information about a student and pass it to the authenticate user, and only that person can access the information. The information such as call logs, browsing history, current location, etc. of the student. Once the application is installed and registered in the student mobile then application itself hidden from student view. Here, the information is first stored in any encrypted file in the phone device. As the user connects with the internet then all this information is transferred to the authenticated user. If the user is enabled with the GPS connectivity then the location also stored and send to the end user with time stamp.

II. TRACKING

Tracking System used for observing of object on the move and gathering a timely sequence of respective location of data object. The purpose of a tracking system is to determine the location or direction of an object on moving condition.

A. GPS and GPRS Technology

Khondker Shajadul Hasan, Mashiur Rahman, Khondker Shajadul Hasan, Mashiur Rahman, Abdul L. Haque, M. Abdur Rahman, Tanzil Rahman and M. Mahbubur Rashed [1] have proposed a cost effective method of object tracking using GPS and GPRS technology. The user can track the present location of the object or a person as well as the past history of its movement using Google Map and Internet. The proposed system reads the current position of the GPS device. We have put our best effort to reduce the total cost few mode details land transmitted through GSM network have used available resource, i.e. our mobile phone to the web server and is displayed on a Google map, which is any usual Android based mobile phone at the web application. This paper presents cost which has GPS and GPRS facility. By using free effectiveness in terms of the cost that was earlier Google API we have drastically reduced the cost of spent in sending the coordinates to the web server the services. This system, which is presented in the using Short Message Server (SMS); in this paper can be used by any person who has a mobile they have presented the idea of using GPRS for the phone. A high cost GPS receiver's requirement has transmission of coordinates rather than the SMS been eliminated by using mobile phone as both service. The cost of sending an SMS is around 50.

B. User's of Android

Garima Pandey and Diksha Dani [2] have described Android Mobile Application Building Eclipse the users of the android mobile phones and tablets. And, now a day's there are number of people using android mobile phones. Also gives a complete knowledge of how to start working on eclipse and develop an application and get it run.

C. Vehicle Monitoring by using GPS

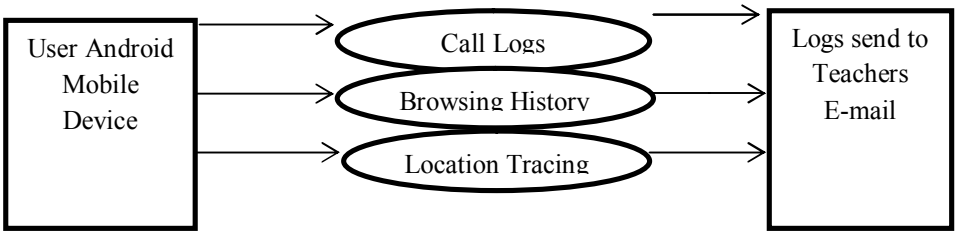
The road and rail network construction could hardly fulfill the requirement of ever-increasing traffic demands and thus worsen traffic environment and road safety issues *N.P. Chai, W.A.W.Z. Abidin, W. H. W. Ibrahim and K. Hong Ping [3]* have described the logic to Vehicle Monitoring System for Accident Prevention, here Various technologies in the system include Global Positioning System (GPS), Geographical Information System (GIS), Global System for Mobile (GSM), General Packet Radio Service (GPRS),

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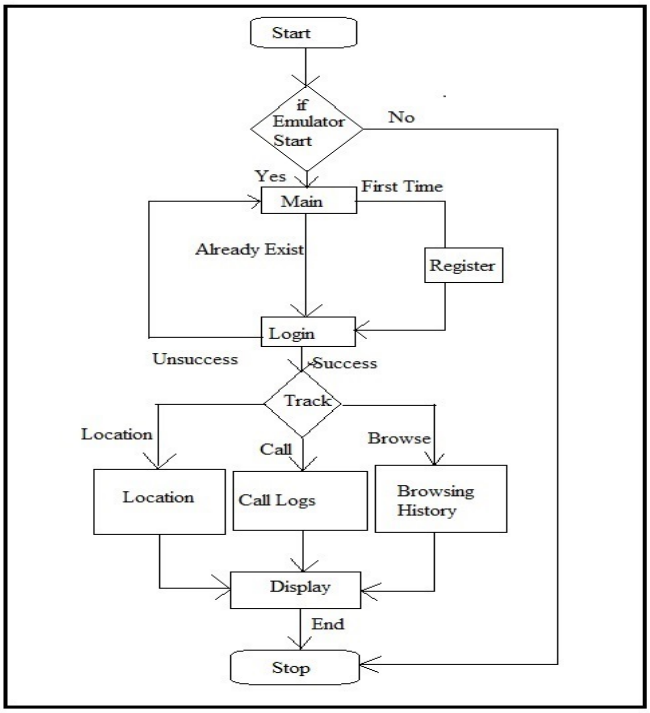
image processing, Fuzzy Logic, data fusion and so forth to monitor the objects.

III. PROPOSED SYSTEM

This paper would work on android devices such as smart phones or tablets. The activity of the student on there mobile phones will be traced and send in the form of text message via E-mail to the authenticated user. Firstly the personal information (the one who using the application) as username, password and E-mail ID save in the database in the device itself. The data like call logs, browsing history and location will be traced and stored in the device until it was send to authenticate user. Once the student open their data connection then day wise data would be send to the authenticated user.



DATAFLOW DIAGRAM



In this paper we have three major modules. First one is call logs, browsing history and location tracing. Each module has its own significances and certain responsibilities.

A. Home Page

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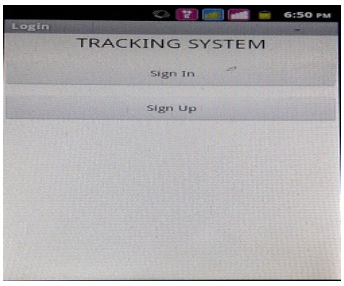


Fig. 1: Home Page of Apps

This is the home page of our application which includes sign in and sign up. If the authenticate user already have an account then he/she can access directly through the sign in button. Otherwise, he/she has to create the account by using the sign up button.

B. Sign up

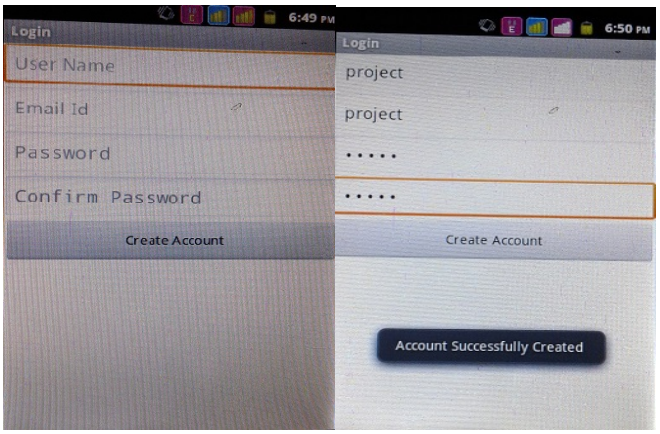


Fig. 2: Before Sign Up & After Sign Up

To create an account the authenticated user must have to enter the basic details such as username, E-mail ID and password. After filling all this information correctly then the account has been created successfully as shown in the above figure**.**

C. Call Logs

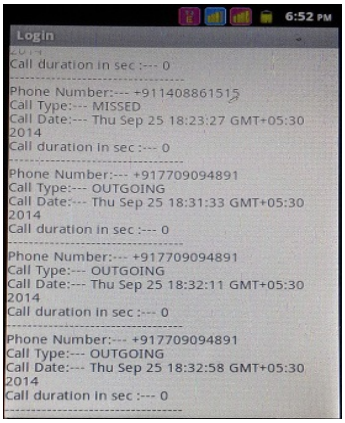


Fig. 3: call logs

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Here in the call logs, the application tracks the information such as phone number, call type i.e. missed call, received call, dialed call and the call duration as well the date and time.

D. Location Tracking

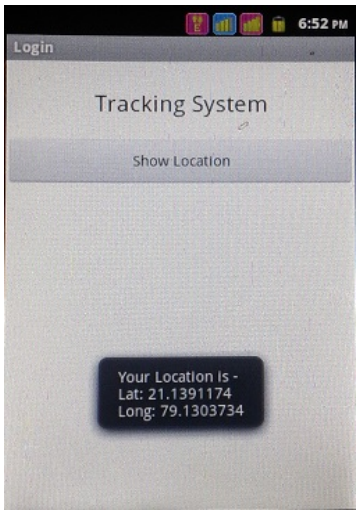


Fig. 4: Location Traced

In this application we track the location of student by using GPS. The location is given in Longitude and latitude format.

E. Browsing History

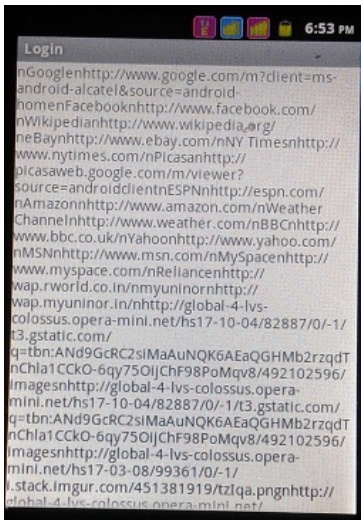


Fig 5: Browsing History

Whenever the student accesses any site in the internet then the details of that site will be traced by the application.

IV. MERITS OF PROPOSED SYSTEM

A. The student can be track down if he/she is misusing the device or resources.
B. The student class/college bunking may also be track.

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C. It helps teacher and parents to keep track on the students.
D. Anonymous browsing can be restricted.

V. CONCLUSION

A. It helps teacher and parent to keep track on student.
B. The student class or college bunking may be tracked.
C. It include the latest technology such as Java, Android, XML, database that is embedded itself in android devices as SQLite. As all the software used are open source thus costing of the project would be less.
D. The user can be track down if he/she misusing the device or resources in personal time as well as college hours.

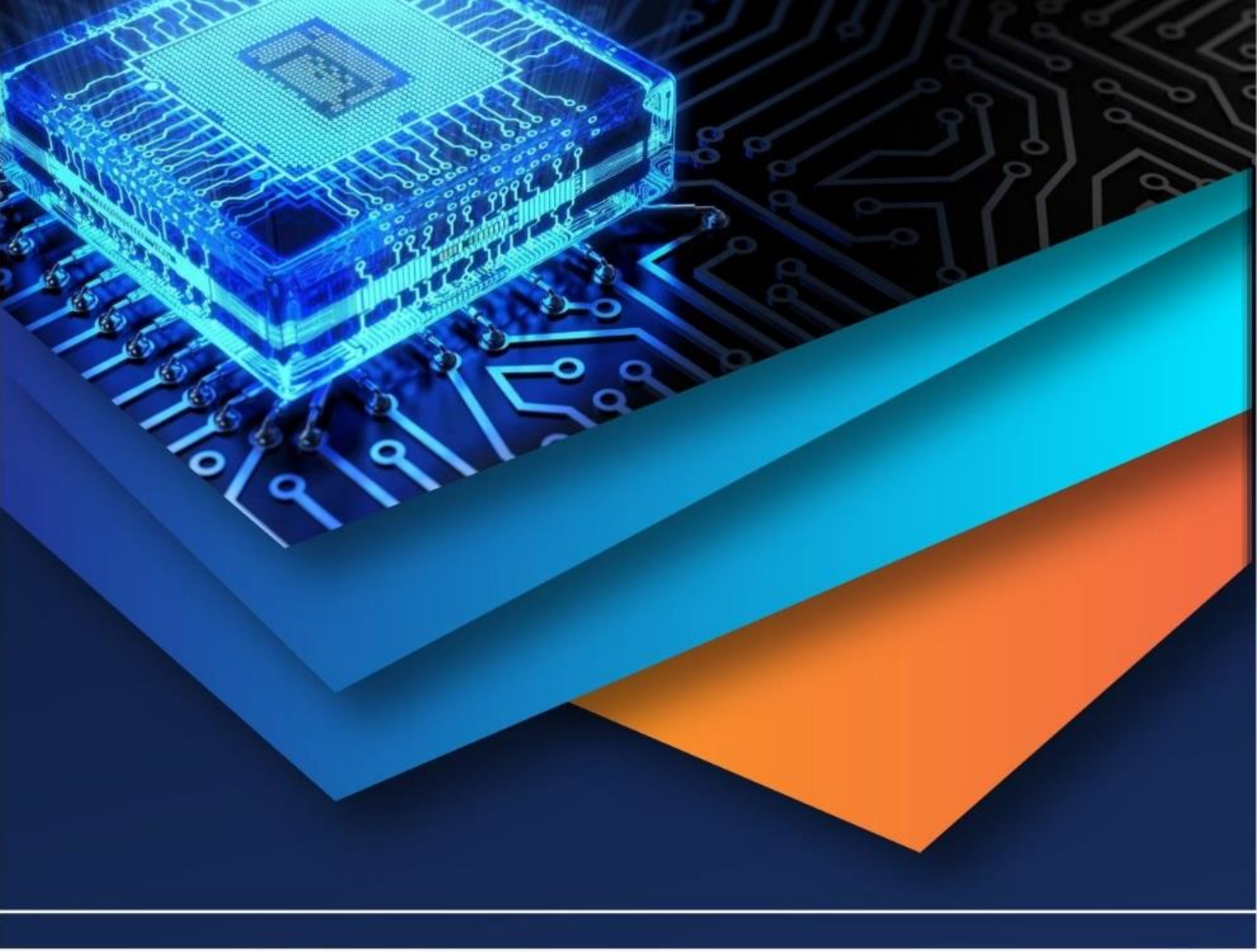
VI. FUTURE SCOPE

A. Personal investigation system.
B. This paper works for the Android devices, and we can make it work in various different platforms such as sys, IOS , windows, etc.
C. By making some sort of changes we can track any individual who perform some crime, thus this application may be helpful to track criminals, thief's etc.
D. It can be extend to keep track of the criminal by trace their current location and some information during performing the crime red handed.
E. It can be extend to alert us for the people near us by capture photo of the person in a wanted list.

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