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ANTI-THEFT MOBILE TRACKING SYSTEM USING CLOUD SERVICES, GSM, AND GPS

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ABSTRACT

Initially, the GPS continuously takes input data from the satellite and stores the latitude and longitude. With the help of the proposed system, we can track our mobile. In the proposed system if we want to track mobile location then we need to send a message to our device, by which it gets activated. Once the application gets activated, it takes the current latitude and longitude positions values from the GPS and sends a mail to the particular email id predefined at registration. The proposed system could be used to track children's current location.

Keywords: Android, Anti-Theft, Child Tracking, Mobile, Alert, GPS, GSM, Mobile, Cloud Computing, Tracking, Alert, Alarm, Theft.

I. INTRODUCTION

With changing times, mobile technology has changed a lot and in the last few years, we have seen the arrival of various new kinds of gadgets in the form of smartphones, camera-phone, Android, and tablet phones. The handset industry has turned from simple budget handsets to ultramodern high-end mobile phones. Today's device is almost everything it is fashionable, innovative, appealing, high-performing, durable, stylish, and multitasking. Latest gadgets can be used for various purposes like browsing mobile, internet, playing games, emailing, blogging, messaging, GPS, YouTube, Google search, Gmail, and more.

The Global Positioning System (GPS) is a location system based on a constellation of 24 to 32 satellites orbiting around the earth at altitudes of 11,000 miles. Each satellite is powered by the Sun via its solar panel. In its earlier years, GPS was developed in the US for military use, by the Department of Défense (DOD). Through the years of development and improvement, we have advanced the use of GPS to track our precise location worldwide and as a navigation aiding tool for civilian usage. Currently, it is used as a navigation tool device to assist us in finding the shortest route to our destination. We can use GPS to find lost mobile phones or parents can track their children's location.

Existing system

In the existing system, if we forget our phone, we call the phone from another phone. If it's silent then is very difficult to find our phone. It's not possible to track children's location of their parent.

Disadvantages of the existing system

Unreliable way to find mobile.

Propose system

In the proposed system users will have main 3 options to find or track their mobile location. If a user forgets their mobile at home, then the user will send preformatted SMS to their phone then the mobile will start ringing. If user forgot their phone outside of the home, then they can track by the proposed system.

Advantages of the proposed system

Easy way to find mobile location Save time and effort to find a mobile phone.

II. RELATED WORK

Amit Kushwaha & Vineet Kushwaha (2011). 'Location Based Services using Android Mobile Operating System' [1]. International Journal of Advances in Engineering & Technology, ISSN: 2231-1963. In this article,

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Amit & Vineet designed an Android-based tracking system, which can help users to find the nearest important locations like a hospital, markets, ATM booths, schools, etc. Manav Singhal & Anupam Shukla (2012). 'Implementation of Location-based Services in Android using GPS and Web Services [2]. International Journal of Computer Science Issues, ISSN: 1694-0814. In this article, Singhal & Shukla designed an Android application that can find the nearest address and calculate the distance between the user's location to another address. Ch. Radhika Rani, A. Praveen Kumar, D. Adarsh, K. Krishna Mohan, K.V.Kiran (2012). 'LOCATION-BASED SERVICES IN ANDROID' [3]. International Journal of Advances in Engineering & Technology, ISSN: 2231-1963. In this article Radhika, Praveen, Adarsh, Krishna, and Kiran designed Android apps that input two addresses by using the r, one is the source address and another is the destination address, and then show the route between these two locations. Radhika Kinage, Jyotshna Kumari, Purva Zalke, Meenal Kulkarni (2013). 'Mobile Tracking Application' [4]. International Journal of Innovative Research in Science, Engineering and Technology, ISSN: 2319-8753. In this article Radhika, Jyotsna, Purva, and Meenal designed an Android application that allows specifying different safety zones for a user. The application runs on a single mobile and the alert messages can be sent to any mobile. Prof. Seema Vanjire, Unmesh Kanchan, Ganesh Shitole, Pradnyesh Patil (2014). 'Location-Based Services on Smart Phone through the Android Application' [5]. International Journal of Advanced Research in Computer and Communication Engineering, ISSN: 2278-1021. In this article prof. Vampire, Unmesh, Ganesh, and Patil designed Android apps with 3 modules, 1) Profile changer based on place or area,

2) Person Location tracking by Family Member (SMS), 3) Nearest Friends notification reminder. Mahesh Kadibagil and Dr. H S Guruprasad (2014).' Position Detection and Tracking System' [6]. International Journal of Computer Science and Information Technology & Security, Vol. 4, No. 3. In this article, Mahesh and Dr. Guruprasad designed an android application that can be used to locate the position of friends and family members. This application has an alert mechanism to send a popup SMS to the user when his friends or family members are nearby. Text messages can be shared with online users.

III. SYSTEM ARCHITECTURE

1) Stolen Mobile Detection

In this case, the user will send an SMS on the stolen mobile in a predefined format with a PIN. The system will fetch the current location and capture photos from front and back cameras. This information is then sent to the registered email id.

2) Misplaced Mobile Detection

In this case, the user will send an SMS on misplaced mobile in a predefined format with a PIN. The system will change the silent profile to a general profile also system will fetch the current location and capture photos from the front and back cameras. This information is then sent to registered email IDs.

3) Child Tracker

In this case, the parent will send an SMS on the child's mobile in a predefined format with a PIN. The system will fetch the current location and capture photos from the front and back cameras. This information is then sent to the register email id. Parents also can check children's call logs.

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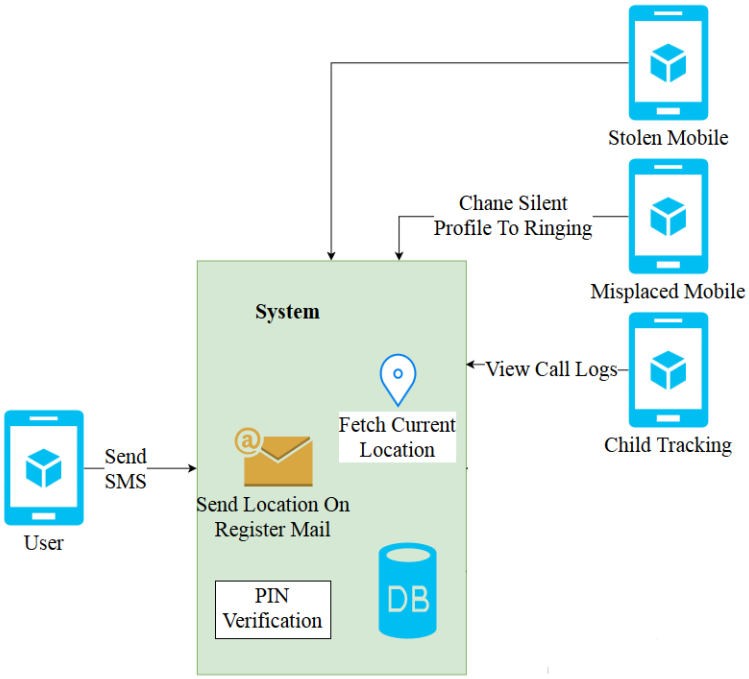

IV. RESULTS & DISCUSSION

An application to observe phone felony is planned. This provides a viable resolution to limit felony activities. it's reliable and price effective. the applying promotes the user to access his purloined phone remotely, while not the data of stealer. The planned application with buzzer helps in providing immediate identification of stealer throughout mobile being felony and this helps in recovery of information security to the user by serving to him to regain his files from the lost phone. Another feature of this application provides with automatic facultative of GPS and receiving current location of felony mobile. This application will be put in with ease in golem handsets. By having this kid following system, oldsters will track the situation of their youngsters. so as to avoid the seizure cases, the kid following system is required.

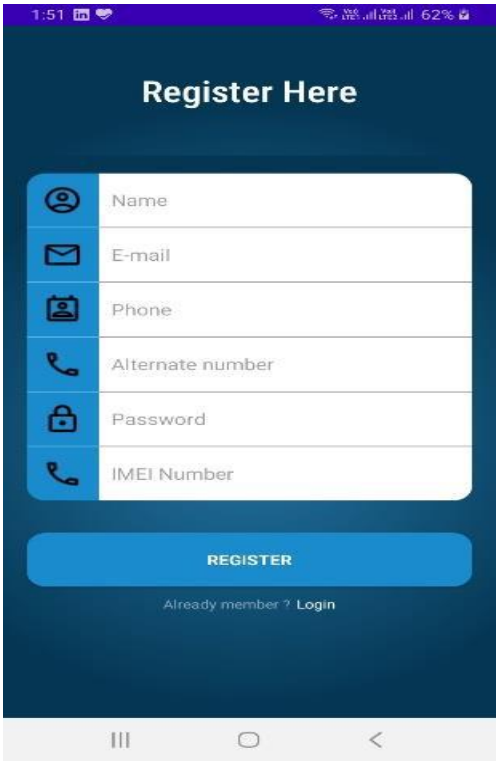

Fig 1: Login Activity

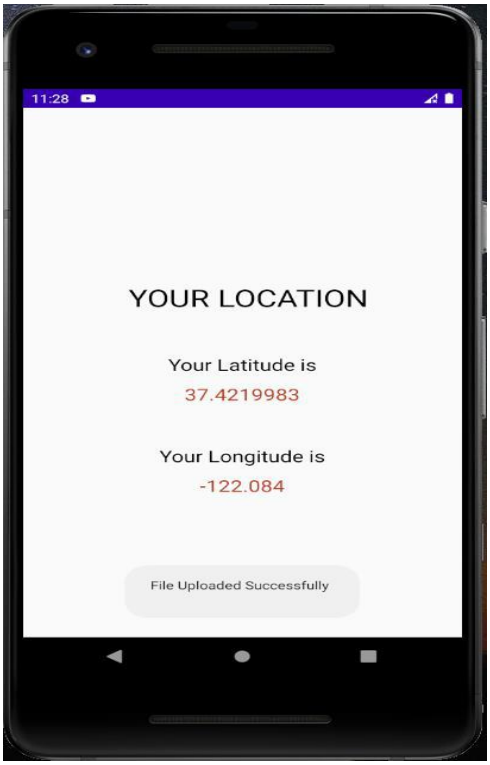

Fig 2: Image Uploaded

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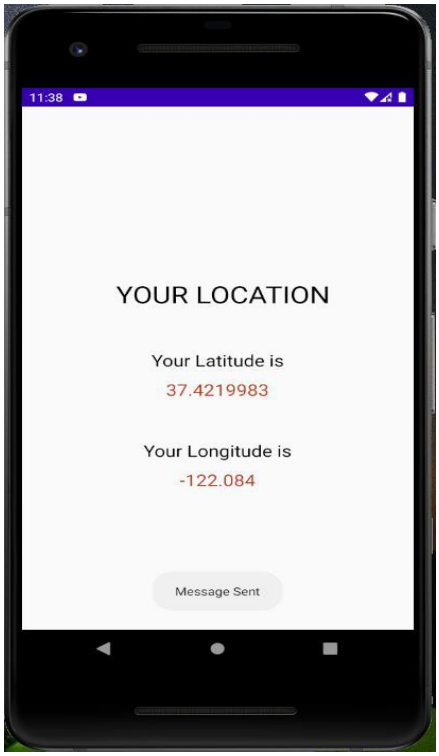

Fig 3: Message Sent

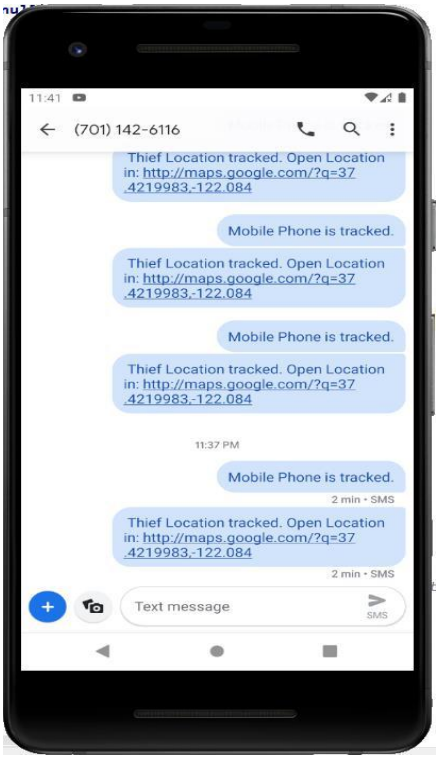

Fig 4: Message Received

V. CONCLUSION

Propose system is an anti-theft mobile tracking application. This application provides strong security to smartphones when it is lost or stolen by thieves. It gives the location, as well as photos of the thief to the user on the email's id provided by the user Parents, can easily track their children's locations.

VI. FUTURE SCOPE

Android is now stepping up to the next level of mobile internet. There are chances of android mobile sales become way more than iPhone in the next current years So this system is useful Android is the most used technology of our current time, which is in the process to use in cars, watches, and also android TV There Are most of the chances of android may become the widely used operating system in the world.

VII. REFERENCES

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