

# ANTI THEFT ANDROID SYSTEM APP

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## ABSTRACT

In this system we have to implement the technique to improve anti-theft for android base on mobile phones by using various services like snapshot on email instead of SMS and MMS. Android is most popular operating system in present days. [1] This work is reduced by our application. Our Android Application is deployed with initial registration of user mobile number, alternative mobile number, and passcode. This application which runs in the background can be able to track the current location of the device. If the thief changes the SIM card, immediately SIM details, latitude and longitude of the location are sent to the alternative phone number of the original user through SMS.

## KEY WORDS

Android, GPS tracking, GPRS, Snapshots.

## INTRODUCTION

Mobile Phones are becoming more and more advanced in terms of offering new state-of-the-art features and services.

All these features are becoming the new standard in the Mobile Technology as they are being offered more and more in high tech device models commonly used by the majority of the population.

In 2014, there were 37878 cases reported against Mobile phone theft in India alone. Most security features in phones today attempt to protect against theft, but there relatively fewer technologies that facilitate phone recovery after theft.

Therefore, the nature of this project is to create a Mobile phone security/recovery system that can track the location of a Mobile Phone in the event that it is stolen. Law enforcement agencies would be able to easily recover a stolen phone if they knew its location. This would further reduce the Mobile thefts in India and around the world.

## OBJECTIVES

Design and develop a Anti-theft app which can create a fear psyche among the thieves that they cannot go away with the mobile phones which means we can monitor any android phone thus helping those who cannot afford to lose their expensive phone.

## MODULES

The system is distributed in 2 application as follows:

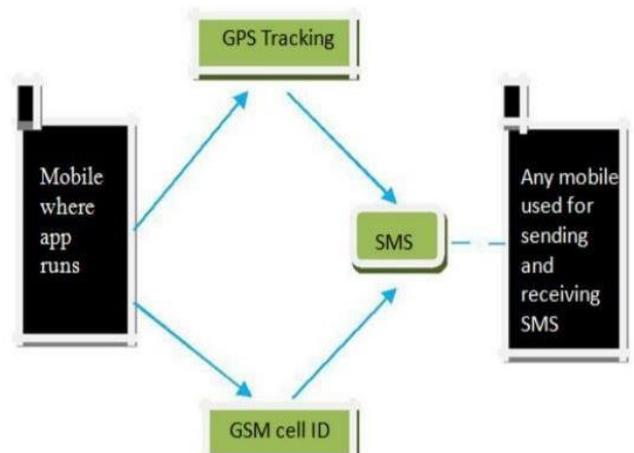
### Android Application:-

- Auto start's when phone is restarted.
- Sends SMS when SIM (Subscriber Identity Module) card is changed.
- Sends Location constantly to the server if Theft is triggered.
- Sends Picture on start of application if Theft is triggered.

### Web Application:-

- User can use same login credentials to access the web application.
- Can trigger the app to monitor the phone.
- User can view the location of thief on Google Maps.
- User can view Image of thief on the web application.

## ARCHITECTURE



### System Architecture

The System Architecture show the way in which this system app will work. The app will get active after a boot and will check for the sim card change. If there will be change in the sim card it will get trigger and will check for the gps and active internet connection as shown in the above diagram. If it has active internet connection it will send the current location and snap to the register mobile through sms and mms.[6]

### PROPOSED SYSTEM

Considering the anomalies in the existing system computerization of the whole activity is being suggested after initial analysis.

Anti-Theft Mobile Security is an application which will notify you when you trigger it.

This application has registration module where user can register them self-using their name, phone no, email id, and password & you will get access to web application as well as app access.

If one fine day, your phone gets lost then you will have to login into web application and trigger the lost phone button.

After triggering, the mobile phone app will take a picture first and then will send the GPS coordinated to the web application using which user can track the phone. i.e. without taking user permission and then it will send an SMS to an alternate mobile number, which was provided after installation for authorized user registration.[2][3]

When user changes SIM card, the application will automatically run itself and its phone no. (Incase if it is not available) then SIM no. is sent via SMS to the registered number and to the alternate number. Also by using web application, user can track down the thief. Web application will contain login form using which user can trigger the application, also it also allows user to view the location and image of the thief.

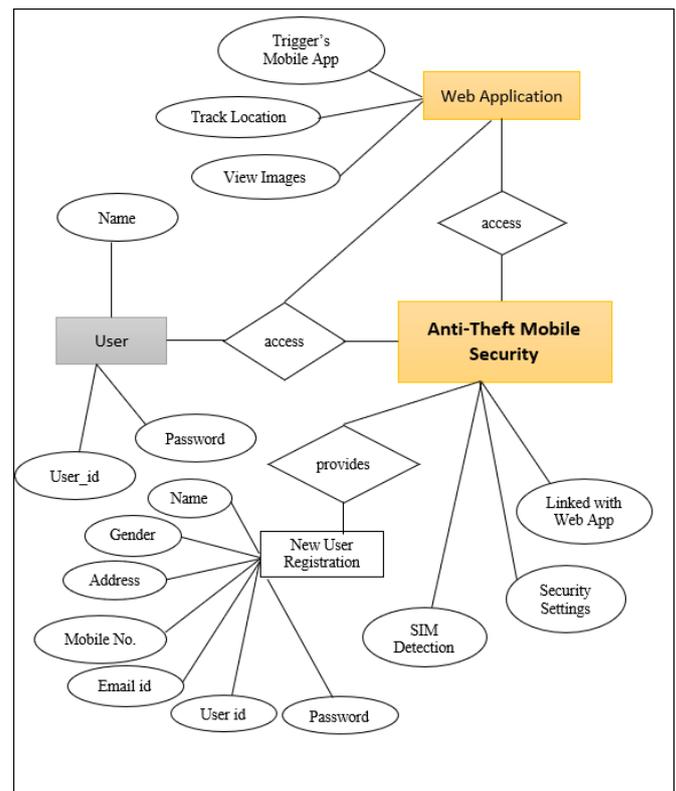
### PROBLEM STATEMENT

Traditionally, the system of mobile tracking was only with the cops, who periodically monitors for the stolen device using old technological tools. A person, who's mobile phone got stolen need to first visit & register an FIR to the cop's station to enable the tracking system for the stolen mobile of a person. A person need to wait or to visit cop's station frequently for the status of stolen mobile. The process becomes vast from registering an FIR till checkmate the mobile theft & getting back the stolen mobile phone.

### SCOPE OF WORK

Law enforcement agencies would be able to easily recover a stolen phone if they knew its location. This would further reduce the Mobile thefts in India and around the world. This system actually consists of a set of data, thus the Process is further identified with a number that will be used for identification purpose with information regarding their whereabouts and other information that can assist law enforcement in tracking down the devices. As technology is getting advance why not our phone should be advance enough to track itself and send location to its master.[5]

### E-R Diagram

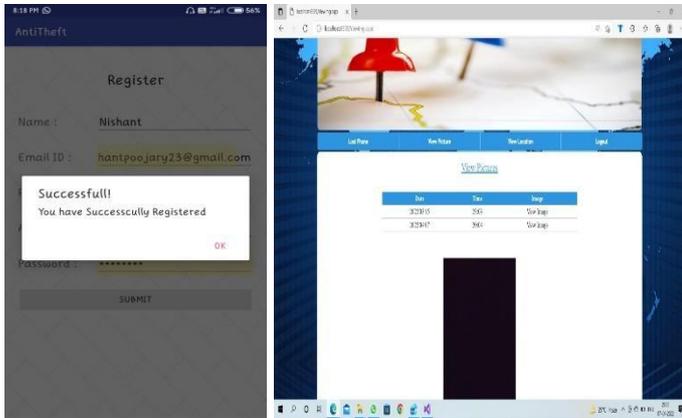


In this module first user interface where user provides SIM IMSI number and alternate number then click submit button. Next it will store information in the database. The users can fetch the information from database to bind user interface control.

- User can enter name, alternate number and IMSI number.
- User can change the alternate number and IMSI number.[7]

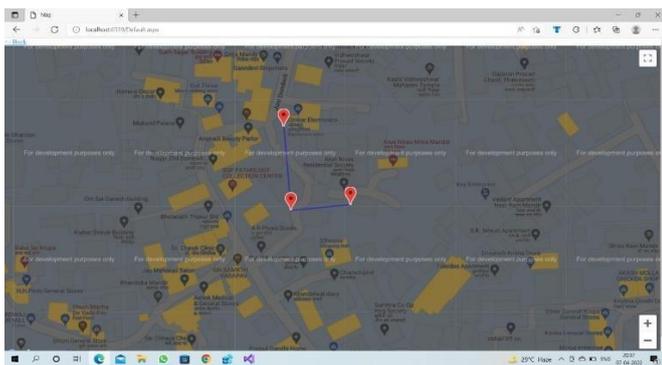
The software helps us to obtain the current location of the phone using GPS facility and retrieve postal address with GOOGLE Maps using GPRS facility.[8] When the relative receives SMS intimating him about the SIM change he precedes with further action whether to inform law enforcement authorities or extract the location of the mobile or of the mobile phone where it is present currently.[4]

## RESULT



Login page

Snapshot



Location tracking

## CONCLUSION

Smartphones do get stolen, but far more get lost every day, people lose smartphones worth 7 Million US Dollars (47 Cr. Indian Rupee at the time of writing). The loss of the device is not just very annoying to the owners, but creates a risk that they often underestimate. When unauthorized persons get hold of a smartphone or tablet, they often have access to personal data such as the address book or personal photos. Installed shopping apps may allow them to make purchases online, at the expense of the owner. Therefore it is very important to bring home to user that security software on their smartphones is just as essential as security software on their home PC's.

## FUTURE WORK

As technology and requirements are changing day by day, we can add more functionality and we can implement the system with new requirements. Future work of the system can perform the following functionalities. The developed and previously tested functionalities can be modified later with more user-friendly functions to make the system more useful. The system is designed in such a way that it is flexible to change any further requirements Prescribed by the user. [8]

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