ANDROID PHONE THEFT SECURITY WITH GPS TRACKING

Abhishek Dawas
2016csb1107@iitrpr.ac.in

***Abstract*—Lots of applications are developed to track a smart phone but still it is a major concern. User has to manually report to the customer care to block the IMEI number of the lost phone. In this article I will give some details regarding my project. The document also includes various features and applications (both android as well as web) of this project.**

***Index Terms*—Location tracking, Android, Smart Phone, Context, Tracking.**

I. Introduction

Anti Theft Mobile Security is an application which will notify you when you trigger it. This application has registration part where user can register themselves using their name, phone no, email id, and password. The registered users will get access to the web application as well as app access. If some day your phone gets lost then you will have to login into web application and trigger the lost phone button. And then app will take a picture first and then will send the GPS co-ordinates to the web application using which user can track the phone. And when user changes sim card the application will automatically run itself and send its phone no and if it is not available then sim no and send it via sms to the rgistered no. or alternate number. If the robber changes the SIM card, immediately then location details are sent to the alternative Phone number of the original User. And this using web application user can track down the thief. Web application will contain login form using which user can trigger the application. And it also allows user to view the location and image of the thief.

II. Proposed System

Android based Application is installed in user mobile which is used to track the SIM Card ID (IMSI). If Android Phone is stolen obviously SIM card would be changed, as our Application parallel working in background of the mobile, it will Track the SIM Card ID. If the SIM card is changed then GPS is initiated automatically and exact location of the thief has been captured.

III. MODULES

A. Mobile Client

It will be an Android application which will be created and installed in the Users Android Mobile Phone. The user need to do registration there for which we will design a page having various tools like some text fields, buttons etc. We will generate an APK file after designing the application. This APK file will be installed in the user's phone. Also with the help of this APK user need to register at the server where he should provide an alternate mobile no. and other important information. Server should also ask for user's IMSI no.

B. Server

The Server Application which is used to communicate with the Mobile Clients. The Server can communicate with their Mobile Client by GPS. User will be initially registering with the server. Server will track the user with user's IMSI number.

C. IMSI Number Tracking

If mobile is stolen by some anonymous person, by using phone IMSI no, through the application anonymous person will be tracked. After the mobile is theft and the user changes sim card the application will automatically run itself and identify its phone no and if it is not available then sim no and send it via sms to the registered no and alternate number, automatically GPS is initiated to exact location of the person and the person can be caught.

D. SMS Alert

In the section if the mobile is stolen then the location of the anonymous person is traced by the GPS application in the mobile which gets updated with every movement of thief location and send the location value to the owner of the mobile. SMS alert the GPS location of the thief is sent to the owner so that they can easily trace the location of the anonymous person by clicking the link of the location URL which was send as SMS Alert.

IV. ANDROID APPLICATION

1. Auto start when phone is restarted.
2. Sends SMS when simcard is changed.
3. Sends Location to the server if Theft is triggered.
4. Sends Picture on start of application if Theft is triggered.

V. WEB APPLICATION

1. User can use same login details for web application.
2. Can trigger the app to monitor the phone.
3. User can view the location of thief on Google Maps.
4. User can view Image of thief on the web application.

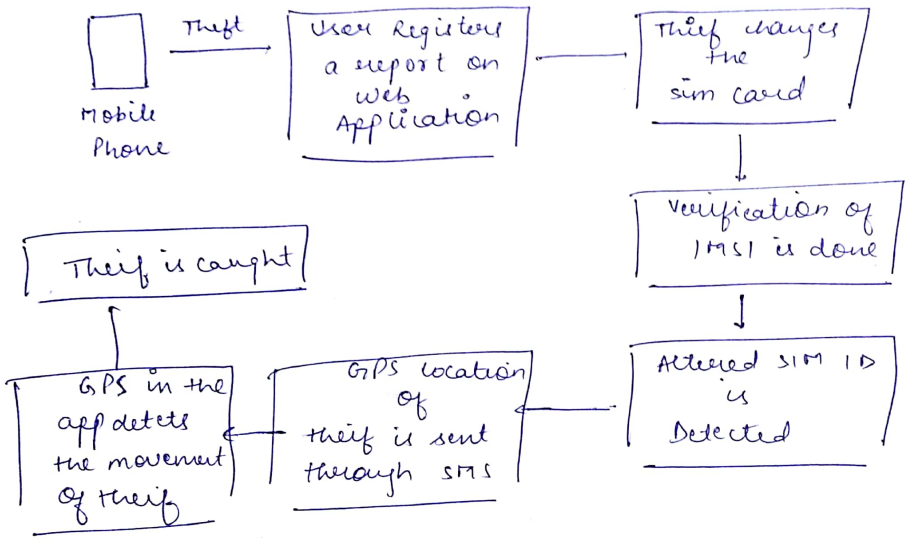

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Fig. 1. Block diagram of detection of theif.