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ANDROID APPLICATION TO LOCATE AND TRACK MOBILE PHONES (AALTM)-AN IMPLEMENTATION OF LOCATION BASED SERVICES

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Abstract: Smartphone are changing the way of our life and have become a very important part of our day-to-day life. If the smart phone is missing or stolen at any situation mean their secret or personal information was moved to wrong hands. In existing system we can't find the exact location of the mobile and picture of an unauthorized person. In our proposed system we use Mobile theft detection application for android based devices. Our application can send email when the pattern or PIN mobile locking system goes to wrong and if person tries to change the SIM card of the mobile, it checks for authorization. If a pattern or PIN locking system goes wrong by an authorized person then the pattern or PIN was send to the user via mail in the form of digits else it will show the picture and place of an unauthorized person with the help of GPS location. This makes easy for the user to identify their forgotten password and also we can found the thief who stolen the mobile phone.

Keywords: Energy Camera Based Attacks, Spy camera, GPS ,Smartphones,Gmail,Global Mobile for Introduction

1.INTRODUCTION

A Smartphone is a mobile phone with an advanced mobile operating system which combine the features of a cell phone with those of other popular mobile devices, such as personal digital assistant (PDA), media player and GPS navigation unit. Most smart phones can access the internet, have a touchscreen,user interface. If the smart phone is missing or stolen at any situation mean their secret information or personal information going to be on wrong hands. Our application can send email through virtually connecting the mobile hardware to operation process with their automated background activity of android mobile

2.LITERATURE SURVEY

2.1 Camera based attack detection and prevention techniques on android mobile phones

Mobile phone which was theft by another person. In this case, the author Ganesh R.Ladm and Krishna B.Patait says that, when a user loses his/her phone the camera could be launched via remote control and capture what the thief looks like as well as the surrounding environment. Here passcode inference attack is used which allows certain pass codes to be attacked many times. In this way attacker will try different pass code until the correct one is found.passcode may be pattern or PIN. Theft face is captured by visible spectrum imaging .The best feature to track the contour between iris and sclera is known as limbus.Remote control sends a ready message along with ip address and port number to the contacts present in the phone.

2.2 A smart phone anti-theft solution based on locking card of mobile phone

The thief who stolen the smart phone, in this case the author Gao and Shang says that, when unknown person can access the data present in the mobile phone. Here anti theft solution is used to block the SIM card**,** SMS, and personal details of the corresponding person. In this way unauthorized person can't access the authorized data. This technique is mainly used for security purpose.

2.3 A model for remote access and protection of smart phones using SMS

With the phenomenal growth of smart phone use, smart phone theft is also increasing. Here the author K.S.Kuppusamy and Senthilraja says that, this technique consist of two components. One is server component that is dedicated to run in the smart phone which has to be accessed and protected. Another one is client component that should be in another component to access the server component. Once a smart phone is accessed by a theft then the SMS is passed to the Smartphone along with IP address.

2.4 Mobile Theft Detection with automatic location tracking by android application

To identify a mobile phone which was theft, R.Vignesh Kumar and S.Venkatesh says that, once the software is installed stores the current SIM number in a variable and keeps checking continuously for SIM change, whenever SIM gets changed from Mobile**,** it will take snapshots and send the snapshots to User's Email and track the Mobile GPS location and Send SMS which contains Google Maps URL and shows the mobile

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location. This project is valid only when the SIM card is changed by that person.

2.5 Detection of lose mobile on android platform

This paper particularly handles to create the application for android mobile phone to find lost mobile. Once we installed our application in the mobile, its starts to get the latitude and longitude value of the lost mobile by using the inbuilt GPS in mobile. The mobile traveling from one place to another place the value of the latitude and longitude is continuously changing and stored in the memory. But only the latest value is stored in the memory. Once the old SIM card is removed from the mobile it waits for the other SIM card to be inserted. If other SIM card is inserted then, our application will compare both the SIM card numbers. If both the SIM card number matches, it should be idle. If both the SIM card number is mismatched, then the present latitude and longitude value of the mobile is sent as the SMS to the specified phone number. The location tracking process is run as background process by using Android service and it automatically repeats sending this information in a specific interval of time. The results from this process composed of position and Mobile's particular information: SIM code and IMEI (International Mobile Equipment Identity) are sent from the lost mobile to the recipient. The results are displayed in two interface modes which are text message and GUI on Google map.

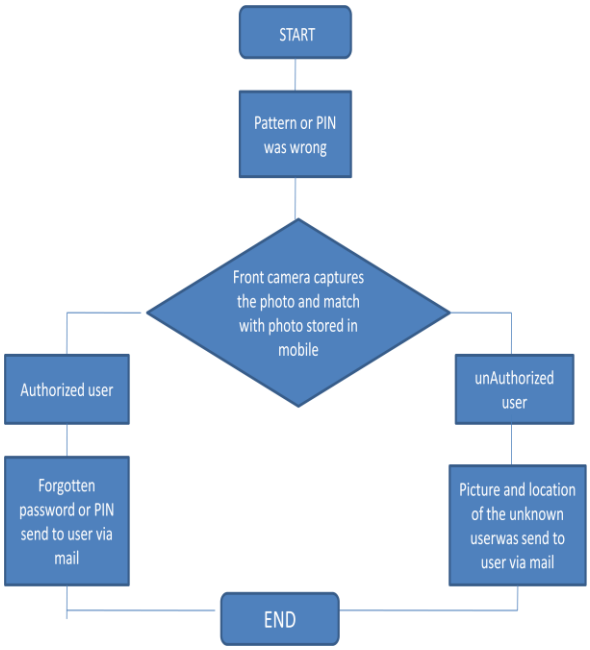
2.6 Mobile theft monitoring

Sometimes we accidently tend to replace our phone somewhere and we end up searching for it. Hence to avoid such situations and keeping the recent demand and the greed for phones in mind we have decided to develop this application "theft monitoring". This application gets activated as soon as the person who has stolen the phone changes the SIM and switches on the phone. The user will not know that an automatic message is being sent to the predefined number. This message will contain the SIM details as well as the location details. This information will be sent as a message to the destined number till the application is uninstalled in the mobile. This makes it easy to find the location of the phone and track the user. The location of the device is found using GPS and the details are sent to the predefined number in the form of a message as soon as the user changes the SIM and switches on the phone. The application also consists of the setting of the number to which the message regarding the SIM and the location details are to be sent .In this application all the operation are done in the background using the concept called "service". Thus "theft monitoring" is a useful application which helps us to track and find the device in effective manner.

2.7 Multimedia Messaging Service (MMS) based anti-theft application

To identify the location of thief using GPS, instead of sending a SMS to an alternate mobile number. This application includes the latest technology like MMS where you can send video clips and photo to any other mobile. It gives the information about the thief by sending the snapshots and a small video clip of the thief to an alternate mobile number, which helps to recognize the thief.

3.SYSTEM DESIGN



4.METHODOLOGY

1. Unauthorized user try to find the password.
2. The app will automatically captures the unauthorized person image using front camera.
3. And send the unauthorized person image to the authorized mail id.
4. Suppose authorized person enter the wrong password at the time the app will match the photo that is already stored in the mobile phone.
5. Then it will send the correct password to the authorized person via mail.

Advantages of our system

- Live Updates
- Automatically process start without request
- No need service providers help
- We can get the exact mobile location and thief picture.
- High reliability

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