RESEARCH ARTICLE OPEN ACCESS

Finding Lost Android Devices Using Mms Technology

Prof. Vrushali Desale, Somnath Dhalpe, Tushar Bakhale
Vijaykumar Dongare, Suraj Kadam
Departmen of Computer Engineering
D. Y. Patil College Of Engineering, Ambi
Pune - India

ABSTRACT
This system technique to improve anti-theft for android based mobile phones by using different services like MMS instead of SMS. As the use of smartphones, tablets, based on android operating system is increasing impressively, many software based on anti-theft have also been developed, but most of these software are not freely available to the user and it's difficult to identify and track the exact thief by using these software like GPS Tracking, etc. We put forward a new scheme, which enhances the present scheme, based on new technologies like Multimedia Messages. The scheme proposed in this system is totally dependent on the hardware of your smartphone like camera (front-back) and support for multimedia messages. Once this software is installed in device, it will work in the background, stores the user's current SIM number in a variable database and keeps checking continuously for SIM change, whenever SIM gets changed from mobile, it will start working in background and take snapshots and record a video in the background i.e. without taking user permission it will take snapshots, record video and then it will send an MMS and number of snapshots to an alternate mobile number, chat messenger and an email id, which was provided by user during installation. The huge advantage of this software is that it is very easy to configure and it keeps working in the background without any interruption to the user. MMS based anti-theft application is a technique through which the thief, who steals any android based mobile device installed with this application, easily get captured and the user will make him/her stop misusing of privacy information. This application provides the advanced technology like MMS (multimedia messaging service), where you can send video and snapshots to any other chat messengers on mobile phone i.e. Whats app, unlike SMS which provides only text information. It gives the information about the location of thief by sending the current location using latitude and longitude coordinates to an alternate email address, which helps us to recognize the thief.

Keywords:- Android, MMS, Multimedia messages, Snapshots, Email, Social chat applications.

I. INTRODUCTION

Now a day's smartphones has become a very important part of our life it provides an advantage of communicating with anyone through video-conferencing, email, etc. Nowadays, smartphones are working like a computer, it can be used for various purposes like entertainment, store information, documents etc., these all contents can be shared with anyone through the internet. These latest smartphones having advance features which are very helpful for doing business work. Company related work, information and documents can be viewed anywhere and can be shared with anyone by using smartphones. Latest android based mobiles phones/ devices are very popular because it supports a large number of utilities for hand-held devices through which it works as a computer in a pocket. These smartphones based on android operating system which is open source in nature, large number of utilities has been developed for android operating system which used for smartphones. Because of its small-size, it can be stolen very easily and the confidential-data of any person, organization or personal details of people stored in the device memory can be easily exposed.

This system aim is a technique through which the thief, who steals any android based mobile device installed with this application, easily get captured and the user will make him/her stop misusing of privacy information. This application provides the advanced technology like MMS (multimedia messaging service), where you can send video and snapshots to any other chat messengers on mobile phone i.e. Whats app, unlike SMS which provides only text information. This system is providing features like MMS (multimedia messaging service) where you can send video and images to any other mobile phone, unlike SMS which provides only information in the form of text. It also provides the location information of device in the form of latitude and longitude co-ordinates.

II. PROBLEM STATEMENT

Now a days finding lost mobile phone is very difficult and

time consuming process. Users private and confidential data are stored in mobile phones and it might be misuse by thieves and others. So this system will provide antitheft application for android based mobile phones using latest technology like MMS instead of SMS.

III. PROPOSED SYSTEM

Once this application is installed in the users mobile phone, it will start working in background without knowing to the user and without interrupting the current activities running by users. Its continuously checking for SIM change and detects by SIM change process. If SIM gets changed then it will start the camera in background and take snapshots of thief by using camera, record a video and track the location without taking any permission. Then it sends the MMS and current location to the alternate mobile number and email provided during installation process. The media files are sent to the number and so it can be viewed when the user open it. Hence, it helps to find the stolen devices quickly.

IV. NOTATIONS AND PRELIMINARIES

S= {I, K, U, F, P, O, A, L, U,T,Success,Failure}

I is set of Instruction
I= {I1, I2, I3 ,....., In}

K is key used for encryption
K= {K1, K2, K3,..., Kn}

U is User name for the module
U= {U1, U2, U3,… Un}

P is Password to authenticate
P= {P1, P2, P3,..., Pn}

F is Set of function
F= { authenticate(), lock(), unlock(), track(), update(), delete(), notify(), pair(), intiate(), encrypt(), decrypt() }.

F1{ authenticate (U,P) } = A A= { d —d contains the information about success/ failure of login}

F4{ lock() }=L L= { d —d contains the information about success/failure of locking }

F6{ track() } = T T= { d —d contains the coordinates of the location of the devices }

O is operations performed by system.
O= { O1, O2, O3, On —O operations performed by the system }

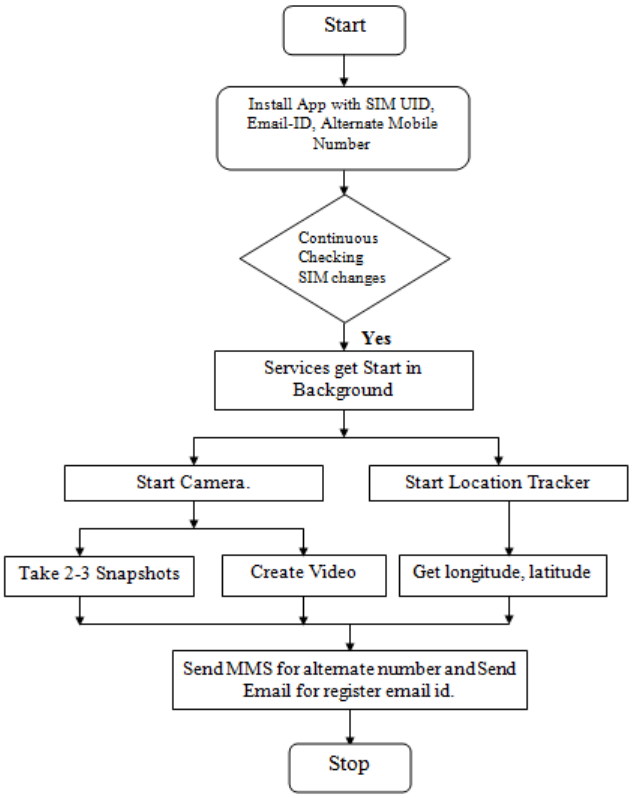
Success=Recieve MMS and email on alternative mobile number and email address.

Failure= Did not get any MMS or Email.

V. SYSTEM ANALYSIS

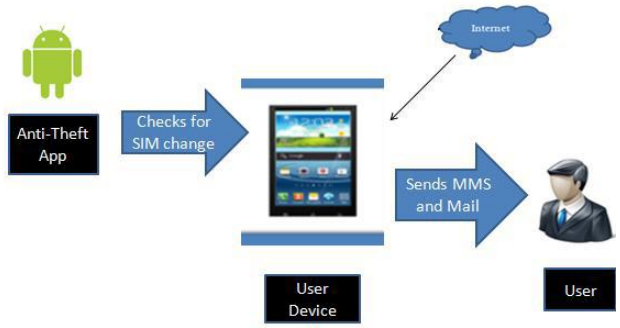
The main four components of this system are UID, MMS, email and the location tracker.

During the installation of this application, user need to register with his email id, current mobile number, and alternative mobile numbers. The MMS module in the system is responsible for making video and take few snapshots by using available camera and stored it in memory. After making video and snapshots it will send to the alternate mobile numbers. The email module is responsible for sending mail includes thief snapshots and location information using latitude and longitude to the alternate email id stored in application database. The exact location of thief and device can be track by location module [5].



VI. SYSTEM ARCHITECTURE

A system architecture is a conceptual design that defines the structure and behaviour of a system. An architecture is a formal description of the system, organizing in a sequenced way. It shows the system components or the building blocks which provides a plan from which the systems developed, that will work together to implement the overall system. The system architecture shows the various components like application keep checking for SIM changing in user device and send MMS to the alternative user shows in fig.



VII. ADVANTAGES

I. This application is freely available.

II. The main advantage of this application is anyone can use it without having much knowledge about device.

III. Easy for the user to identify, caught and arrest thief.

IV. It provides an information of location of device accurate.

VIII. CONCLUSION

Finding lost mobile application is an android application, we can use for easy and technically track the mobile devices as well as near location image by mobile hardware device. We are enhancing this application by provide the information about location and new insert SIM details. This application can provide information by image they can share this information through email and MMS to alternative mobile number and email address as well as selected social chat application. So with the help of this new and advanced technology we can easily find lost android mobile devices.

ACKNOWLEDGMENT

This work is supported by Prof. Vrushali desale of DYPCOE, Ambi.

REFERENCES

[1] Ansari, Abdullah Mohammad, Md Nehal, and Mohammed Abdul Qadeer. ”SIP-based Interactive Voice Response System using FreeSwitch EPBX.” InWireless and Optical Communications Networks (WOCN), 2013 Tenth International Conference on, pp. 1-5. IEEE, 2013.

[2] R. Archana, e.g. bhuvaneshwari, t. Hemavathi “Multimedia messaging service (mms) based anti-theft application” Department Of Computer Science Adhiparasakthi Engineering College, Melmaruvathur

[3] Gupta, Priyanka, Neha Agrawal, and Mohammed Abdul Qadeer. ”GSM and PSTN gateway for asterisk EPBX.” In Wireless and Optical Communications Networks (WOCN), 2013 Tenth International Conference on, pp. 1-5. IEEE, 2013.

[4] Azeem Ush Shan Kha,Azeem Ush Shan Kha,Mohammed,Abdul Qadeer Department of Computer Engineering, Zakir Husain College of Engineering Technology, Aigharh Muslim University, Aligarh 202002, India

[5] Anti-Theft Application for Android Based Devices Shweta Dhanu1, Afsana Shaikh2, Shweta Barshe3Vol. 5, Issue 3, March 2016

[6] Bharati Vidyapeeth College of Engineering, Navi Mumbai, India.1,2,3

[7] Shweta Dhanu, Afsana Shaikh, Shweta Barshe Bharati Vidyapeeth College of Engineering, Navi Mumbai,”Anti-Theft Application for Android Based

Devices."International Journal of Advanced Research in Computer and Communication Engineering Vol. 5, Issue 3, March 2016.

[8] Kumar, Sandeep, Mohammed Abdul Qadeer, and Archana Gupta."Location based services using android." In IMSAA09: Proceedings ofthe 3rd IEEE International Conference on Internet Multimedia Services Architecture and Applications, pp. 335-339. 2009.

[9] Chandra, Ankur, Shashank Jain, and Mohammed Abdul Qadeer. "GPS Locator: An Application for Location Tracking and Sharing Using GPS for Java Enabled Handhelds." In Computational Intelligence and Communication Networks (CICN), 2011 International Conference on,pp. 406-410. IEEE, 2011. SYNOPSIS

[10] Luis C.M Varandas;Binod Vaidya;Joel J.P.C Rodrigues; mTracker: A Mobile Tracking Application for Pervasive Environment IEEE24th International Conference on Advanced Information Networking and Applications Workshops,pp.962-967April 2010.

[11] Sasivimon Sukaphat "An Implementation of Location-Based Service System with Cell Identifier for Detecting Lost Mobile" 1877-0509 c 2010 Published by Elsevier Ltd.21

[12] Imran, Ale, Mohammed A. Qadeer, and M. Khan. "Ast erisk VoIP private branch exchange." In Multimedia, Signal Processing and Communication Technologies, 2009. IMPACT'09. International, pp. 217-220. IEEE, 2009.