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### **MOBILO** (Mobile Lost) Tracker Android Application

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#### **Abstract**

Smartphone users are increasing rapidly in this ICT enabled society. With the phenomenal growth of smartphone usage, the burglary of such tiny device is also increasing. Smartphones are easily lost, stolen or misplaced. Security is one of the main concerns for Smartphone users today. This paper proposes a model to return smartphones from any kind of missing. Smartphone become more valuable useful device because it contains more and more sensitive information. Considering the stored information, users are very much concerned to return their phone to maintain regular communication and sharing. Index Terms—Information, misplaced, remote access, smartphone security, theft protection.

**Keywords** *Information, misplaced, remote access, smartphone security, theft protection.* 

#### **I.INTRODUCTION**

Nowadays, usage of mobile has become a vital part of day-to-day activities of people. We can refer the current time as the era of Smartphones. Suppressing other traditional communication purpose, smartphones are now at the peak of popularity in their usage of accessing the internet which includes mail access, social networking, mobile shopping, mobile banking etc. Smartphones contains critical and sensitive data of user like automated call records, photos, videos and saved passwords of Webpages. So losing the smartphone means a very high amount of irrecoverable data loss which may not be affordable in many cases. This claims the need of an intelligent application to be run in mobile to eradicate mobile theft and track the mobile even after change of the SIM also. The major objectives of the research work have identifying thefts mobile number and to get that smartphone. Locate the mobile and track it. The mobile location can be tracked using the proposed approach.

# II. LIMITATIONS OF THE CURRENT SYSTEM

A large number of applications have already developed for mobile security. Maximum of them

use GPS system. There must be need Internet connection. If anyone has no Internet connection the system will not be running. But our basic system we will describe a short messaging system that won't be needed any Internet.

## III. WHY SECURITY IS IMPORTANT FOR SMART PHONES

Today's smartphones are designed for business, entertainment, personal Smartphones provide instant access to the web. Many of these devices allow employees to sync with their desktop computer in offices or at home. Employees can store and access documents. They can also receive and respond to emails as they arrive in their inbox on their home computer with realtime push email. Smartphone is a convenient stuff, but if lost, it would lead to a troublesome problem to its user. Smartphone is considered an electronic storage medium containing various information, such as information of one's own, prepaid money with the wallet capability, movies/ image data taken with a camera, moving images, music, application data purchased by oneself, friends' information (e.g., registered in the address book), and even the information obtained through corporate activities

(e.g., client information, sales & marketing information); so it is analogous to a USB stick that has many functions. As a matter of course, if lost, it might lead to information leakage. So security is most important for smartphone.

#### **IV.LIMITATION**

All of the demand of the users can not satisfy. Every application or software has some lacking's or limitations. This app has also some limitations. When the theft change the smartphone user's SIM by his own SIM, then a short message will be sent. If his SIM has no balance, then no message will be sent to the user predefined number.

#### **V.METHODOLOGY**

MAT-MIC: This module will turn on the robbed phone automatically by placing a call from the newly inserted sim to the registered SIM numbers. This enables the user to just hear the audio which will be coming from the surrounding environment that is the environment where the phone currently is after theft. Mat-MODE: This module of the system will turn the robbed phone into the general mode (ringing mode) if it is put into the silent or vibration mode after the theft. MAT-LOCK: This module will lock the phone with a new pattern that will be entered by the user at the time of registration. MAT-WIPE: This module will format the mobile phone with all the data in it on request by the user. MAT-LOCATION: This module will give the location of the phone after robbery to the registered phone using the GPS service. MAT\_BACKUP: This module will backup all data of the robbed phone to a data server known to the user.

#### VI.GPS TRACKING SYSTEM



In the advanced method, we can suggest to develop an application by adding GPS system with the first method. We are hoping for advancement of technology in future so that tracing the exact location of any mobile number is possible. GPS (Global positioning system) is a great boon to anyone who has the need to navigate either great or small distances. GPS receiver help us to navigate back to a starting point or other predetermined location without the use of maps or any other equipment.

The apps will keep updating the location of the stolen phone after every 10 minutes, and each times the location changes, it will send an email to the user. However, the location is sent only on the email address. Basically, the app doesn't require one to configure the settings or create any account. When we developed an application according to the second method, this application will provide theft's current location to the user's predefined email address. Thus the user can know the theft current location and catch the theft and get return his lost smartphone.

#### VI. CHALLENGE

Although the use of smartphone is increasing rapidly, there have some challenges. A smartphone is needed but it is impossible to have such type of phone for all persons as our poverty country Bangladesh because of higher cost of smartphone. To operate a smartphone some applications are necessary. Applications developer is needed and development is also a high cost. Security is an important issue for the smartphone to prevent the unauthorized access.

#### VII. CONCLUSION

The Mobilo -An Android Application to Locate and Track Mobile phones is a unique & efficient application which has a variety of features that enhances the existing mobile tracking system. Mobilo stands different from the existing system as it is not only the GPS value it makes use of but it works on GSM/text messaging services which make it a simple and unique one.

This application doesn't work if the phone is switched off. For future work, it is proposed to implement some algorithm where the phone itself identifies that it is being lost. Whenever, the phone is off for more than 48 hours it should make it switch on automatically.

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