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PAAS: Proposed Scheme for Remote Access of Smart Phones

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***Abstract* – Smart phones have become so important that if we forget our phone somewhere then so many important tasks get stuck. So there must be some solution for this problem. Taking into consideration this problem, we proposed the PAAS, a system which can remotely access your smart phone from anywhere. The purpose of this application is mainly to give the remote access to the mobile phone to the user. In case of the missing phones this application will play the vital role as it will help to get the location of that smart phone. Not only location tracking but it also provides different features such as mode change, call tracking, accessing call logs, data wiping, phone reset etc.**

Keywords: Remote access, Location tracking, Data Wiping

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 all 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 and mobile banking. Given these features the problem arises when the phone is left at someplace and we want to retrieve some data from the Smartphone. Remote accessing of mobile becomes necessary in such cases. To deal with this problem, we thought of developing an application that permits remote accessing. It includes getting the incoming call numbers, incoming messages, accessing call logs, changing phones profile setting, retrieving the IMEI number of the cell phone, retrieving the SIM serial number as well as retrieving the contacts[1].

This application is designed for android users and is useful in the following scenarios.

You have forgotten your phone at some place and,

a) You want to access the call logs
b) You want to access the messages
c) You want to change the mode of device
d) You want to retrieve some important contacts from your smart phones
e) You want to trace location of your phone
f) You want to know the IMEI and SIM number
g) You want to wipe out the data or reset your phone

The paper is organized as follows. Section II discusses the literature survey. Section III describes proposed system about the PAAS, Section IV Conclusion of the concept.

II. LITERATURE SURVEY

There are different apps present on play store out of which we have studied three most related apps which are:

A. Phone Away app
B. Agastya
C. iMobile

These applications provides-

a. Option to track and secure the mobile by locking it.
b. It also provides facilities to retrieve the call history and SMS information to the remotely connected device and enables the remote user to control the mobile through SMS[2].

A. Phone Away App[3]

Fig.1 Phone Away App[3]

a. Phone away app is one of the application that allows you to access your Android smartphone remotely.
b. To facilitate communication you can choose the communication mode either SMS or email.
c. Through Phone Away app you can delete all the contacts in your SD card or initiate the factory reset of your device remotely.
d. You can fetch any contact from your phonebook remotely.
e. Phone Away app let you to find the location of your device in case of missing the phone.
f. In this app we can change the device mode also. Means we can change the mode from silent to ringer.
g. This app can give one more advantage like it can give the missed call alert in your mobile.
h. The drawback of this app is it cannot allow us to access the call history.
i. And to send the mail we must have the internet connection as well.

B. Agastya[4]

Fig 2. Agastya[4]

Agastya allows you to remotely access your smartphone. Data which can be retrieved are:

a. Contacts (Fetching contact number from your Address book)
b. Call Logs (Checking Missed Calls/Received Calls/Dialled Numbers)
c. IMEI Number
d. Phone Profile (Changing profile mode to Ringer or Silent)
e. SIM Number (Retriving SIM Number)
f. SMS logs (Checking SMS's received on your phone)

C. iMobile[5]

The project consists of accessing the data with the help of website or mobile though android SDK. Mobile data backup is the most up-to-date backup solution for the moment being with the Mobile backup service you won't have to worry about your data security, buy hardware and install software to back up your data. Moreover, the software backup saves. Design an interactive mobile system that can track a remotely Android mobile and can transfer the data between the whenever you doing the login in android mobile you can transfer the data in website or systems with the add-on feature. The user can also send and receive SMS through his current mobile from his target mobile. The interactive system facilitates user to have a backup of his call logs, SMS, and contacts on server the system should support following facilities:-

1. New User can register to use application.
2. Registered user needs to login with user id and valid password.
3. After authentication application provides following facilities:

a. Read Contacts from mobile.
b. Read SMS from mobile.
c. Read Logs from mobile
d. Send SMS.
e. Access the Android mobile data in web application

III. FEATURES AND LIMITATIONS OF EXISTING SYSTEMS

SYSTEM	FEATURES	LIMITATIONS
Phone Away	Factory reset ,retrieval of contacts , Location tracking, mode change of device.	It provides the location information in terms of latitude and longitude, it doesn't allow access to call

		history.
Agastya	Fetching contact, access to Call Logs, IMEI number, SIM number, SMS logs.	Only supports mode change from silent to ringer, can't find the location of device.
,iMobile	Read contact, Call Logs, SMS, access to mobile data	Can't find the location of device.

Table.1 features and limitations of existing systems

IV. PROPOSED SYSTEM

A. Problem Statement

To develop an android app which will provide the facility of remote access of your mobile from any location. This app provides access to contact list, call list, mobile data, Wi-Fi, account details, data wiping, mode change and location finding on Google map as well as latitude and longitude, retrieving SIM number, SIM operator information, IMEI number, factory reset.

It includes:

a. Set 1 Ringer
b. Set 2 Silent
c. Set 3 Vibrate
d. Set 4 Power Saver
e. Set 5 Block Mode
f. Set 6 Location
g. Set 7 Find latitude and longitude
h. Set 8 Factory Reset
i. Set 9 Mobile Data
j. Set 10 Account Details
k. Set 11 Wi-Fi
l. Set 12 SIM Operator
m. Set 13 SIM number
n. Set 14 IMEI number
o. Set 15 Call logs
p. Set 16 Get Contacts
q. Set 17 Data Wipe
r. Set 18 Stop

B. Requirement Analysis

Hardware Requirements:

1. Cell phone as SMSC
2. Android Smart Phone.
3. A standard computer with at least
   a. 512 MB RAM.
   b. 2 MB HDD free space for installing our application.
   c. 100 HDD free space

Software Requirements:

1. JDK (Java Development Kit) version greater than 1.5
2. Android Development Tools (ADT)
3. SQLITE database

C. Proposed algorithm

STEP 1: Start
The app will start by sending SMS from least version of android phone to the smart phone.

STEP 2: Read incoming message
The app will read the content of incoming SMS in order to recognize the unique key.

STEP 3: Check for the authentication using unique key.
After recognizing the message it will check that it is a unique key given by authenticated user or not.

STEP 4: If user is authenticated go to step 5, otherwise end the request
If the key is matched then user will be authenticated successfully. If the key is not matched then authentication fails.

STEP 5: Send message as a response with all possible process list.
The process list will contain following menu:

a. Change the modes of device
b. identify the location
c. Wipe the gallery
d. Retrieve the contact information
e. Retrieve the call history
f. IMEI , SIM and operator information
g. Reset phone

STEP 6: Read the option provided by user and check if valid
After sending the menu he will select appropriate option from above list and send through SMS to smart phone. After reception of SMS at application site, it will check whether the option selected by user is valid or not.

STEP 7: If the option is valid go to step 8, otherwise go to step 10
If the user selected option is valid then application will process the request. If the option provided by user is not valid then the notification will be send by the app like please select the valid option from the list to the user and process gets stopped.

STEP 8: Process the request If the selected option is valid the app will start processing.

a. Change the modes of device:

If the above option is selected by user then app will again send the list of modes out of which user will select one. The modes will be ringer, vibrate, silent and flight.

b. Identify the location

After selecting above option the app will enable the mobile data and GPS and the location of smart phone in the form of latitude and longitude will be send to the user in the form of SMS.

c. Wipe the gallery

After selecting this option all the data in the gallery will gets erased. This option will provide the security to the sensitive data.

d. Retrieve the contact information

This option allows the user to retrieve the contacts which are present in his phone book. In addition to that the app will provide the facility to the user that he can send initial letter of contact he wants to retrieve or he can send the initial name of the contact as well.

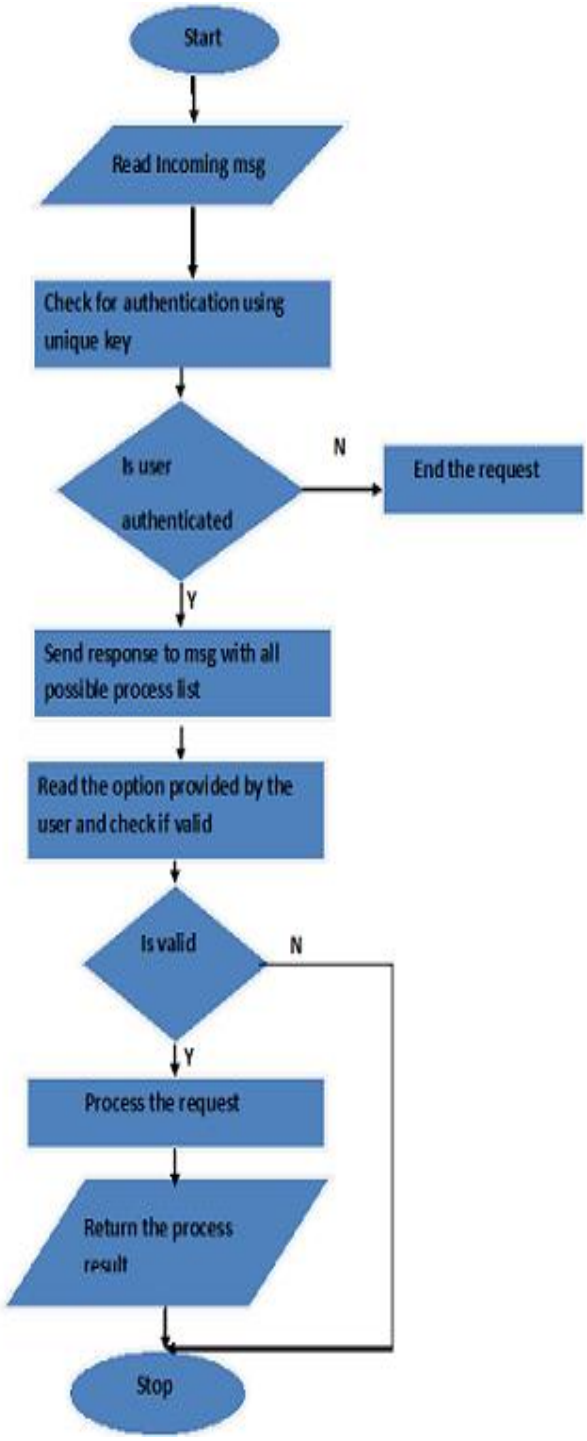

Fig 3. Workflow of PAAS

e. Retrieve the call history

By selecting this option user will get last 5 entries in call logs. These entries are sorted according to their types like dialed, received and missed calls.

f. IMEI number

This option will simply give you the IMEI number of your phone.

g. Reset phone

By selecting this option, entire data of your phone will get erased to maintain security.

STEP 9: Return the process result

Whatever the option selected by the user, the appropriate action will get performed by the application and the success message will get displayed on the user site.

STEP 10: Stop Application will get stopped in either of three cases:

a. In case of unsuccessful authentication.
b. If the option selected by user is not valid.
c. After successful completion of process you must use mixed units, clearly state the units for each quantity that you use in an equation.

V. CONCLUSION

Though there are various such apps as mentioned above, still out of them there are many apps which are not in proper working condition and some of them are not so reliable hence we have tried to propose this new system which can overcome the problems present in those apps and work with higher functionalities and reliability.

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