Mobile Theft Alert using Face Recognition

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***Abstract*-This project handles to create the application for android mobile to find a lost mobile. The application deals with face login of mobile user and stores few snapshots of mobile owner. When the mobile owner switch on the mobile the application will automatically get started and it takes a snapshot of the mobile owner. Then the application compares the snapshot with already stored snapshot and then login in a lost mobile. Also application gets the latitude and longitude value of the mobile by using the inbuilt GPS in mobile. When the mobile moves from one place to another place the value of the latitude and longitude is taken and stored in the memory. This project has been developed using Java as front end and MySQL as back end.**

***Index Terms*-GPS, Location Manager, Open CV Manager, SQLite**

I. INTRODUCTION

Usage of smart phones is increasing nowadays. Touch screen mobile devices uses an android operating system. Android applications are written in java programming language. The mobile phone tracking is done with the help of GPS. The location and time information of the device is found using GPS in all weather conditions, anywhere on or near the Earth when there is a no obstructed line of sight.

II. MODULE DESCRIPTION

A. Face Identification

The application deals with face login of mobile user and stores few snapshots of the mobile owner. When the mobile owner switch on the mobile the application will automatically start and it takes a snapshot of the user. If the mobile is lost and when the other user switch on the mobile the application automatically starts and it takes a snapshot of mobile user. The application compares the already saved snapshots of the mobile owner with snapshots of current user. If there is no match, it will not allow to login into the mobile.

B. Tracing the Location and sending SMS

In a lost mobile, once the SIM card is removed, it waits for the other SIM card to be inserted. If other SIM card is inserted then, our application compares both the SIM card numbers. If both the SIM card numbers matched, the application remains quite. But if there is a mismatch, then the present latitude and longitude value of the mobile will be stored by using the inbuilt GPS. The application always stores only the latest latitude and longitude value of the mobile phone in the memory. Based on the latitude and longitude value of the mobile phone, the application tracks the location. Then it sends the location information to the specified mobile number.

C. Mailing Captured Images

If the snapshots of current mobile user and snapshot of mobile owner which is already stored in the application does not match, the application attaches the snapshots of current mobile user to the e-mail and sends to the specified e-mail id.

III. FLOW OF DATA

A. Level 1- Registration of mobile user

The user should register the details once the software is being installed. It takes the picture of the user and saves it in the database.

B. Level 2- Authentication

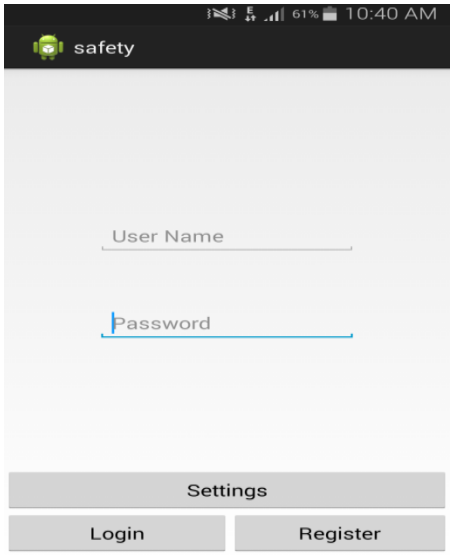
Once when the mobile is switched on, it takes the photo of the user and compares it with the already stored picture in the database. Based on the results of comparison the user will be allowed to access the mobile or will be blocked.

C. Level 3- Reporting

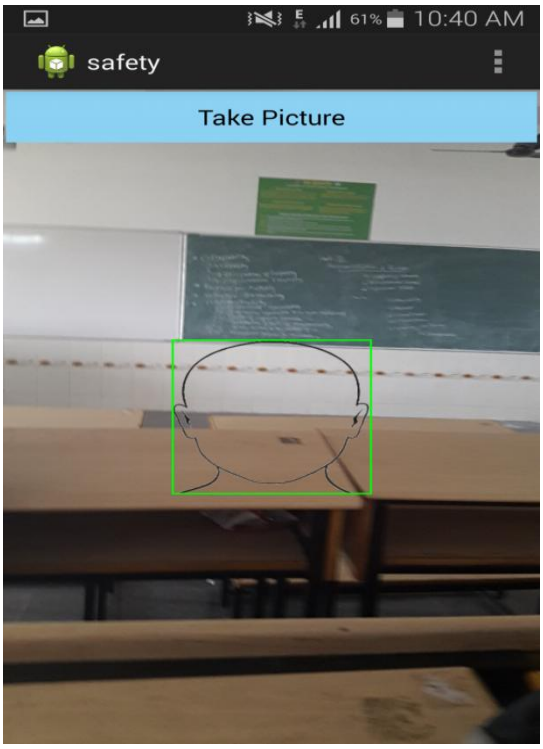
If there is a mismatch in the pictures, a report will be sent to the owner by sending the image of the hacker to his email and his location to his mobile number.

IV. SNAPSHOTS

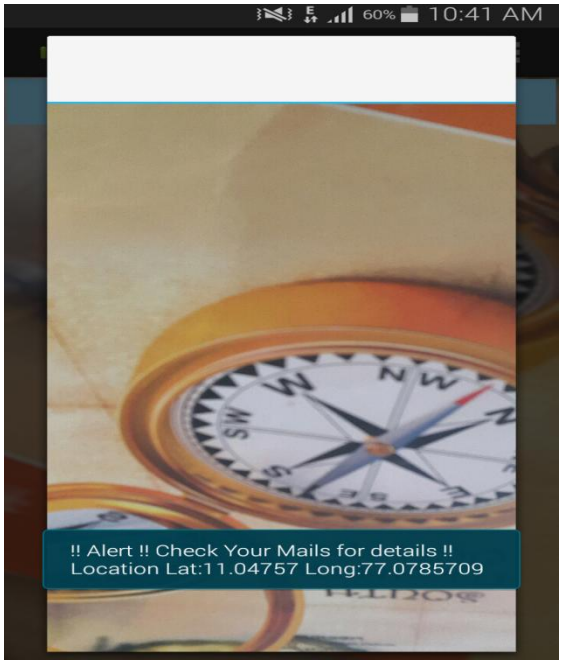
A. *Login*



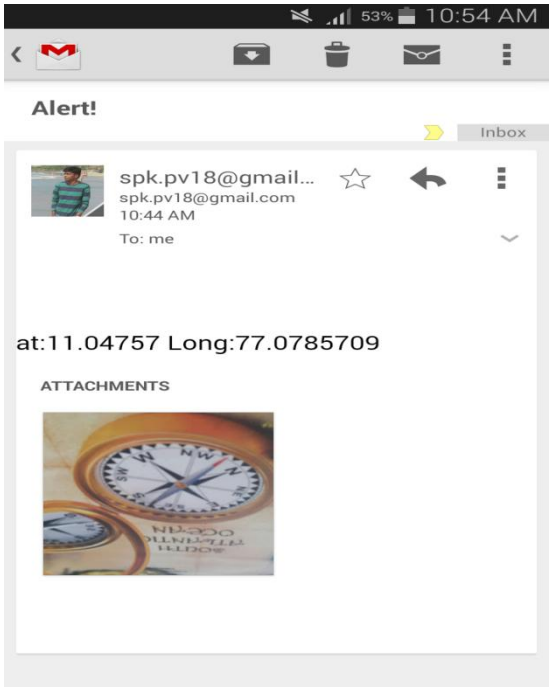
B. *To take a picture*



C. *Face Recognition*



D. *Alert mail*



V. CONCLUSION AND FUTURE ENHANCEMENTS

The proposed system, an android application for tracking the mobile phones is created and installed in a mobile. This application works with the help of in built GPS in the mobile phones. When the user

changes the SIM card in that mobile phone, a picture of the user and the current longitude and latitude information is sent to the specified email address without the knowledge of user. Thus it helps to identify the person who has taken the mobile. In future, the application can be used in laptops for security purpose. It can also be used in iPads, Tablets and in any android devices.

VI. REFERENCES

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