MOBILE ACTIVITY MONITORING SYSTEM USING ANDROID SPY

Nisarg Salve

Department of Computer Engineering Sandip Institute of Technology and Research Centre Nashik, India

nisargsalve2002@gmail.com

Aniket Suryawanshi

Department of Computer Engineering Sandip Institute of Technology and Research Centre Nashik, India

anisurya8990@gmail.com

Amar Potphode

Department of Computer Engineering Sandip Institute of Technology and Research Centre Nashik, India

amarpotphode245@gmail.com

Sakshi Waghchaure

Department of Computer Engineering Sandip Institute of Technology and Research Centre Nashik, India

sakshiwaghchaure2010@gmail.com

Prof. Pradeep Patil

Department of Computer Engineering
Sandip Institute of Technology and Research Centre Nashik,
pradeep.patil@sitrc.org

Abstract

Now a days Android mobiles are everywhere in the world, but if we consider the area such as IT industry, Organisations, Educational, Business in these sectors all the employee with their Android mobile phones performs much activities. Every company, organisation having their own policies, rules, future projects so in such cases the privacy, security and confidentiality must be maintained by the employee of the organisation. So it's very important to track their mobile phones whether they are leaking the confidential data or they are doing wrong call, wrong SMS, or crossing out the organisation's geographical area in working hours. Another thing there are so many criminal cases happening like child kidnaping so in order to avoid this all cases we need to track the location of child's mobile [10]. After considering all these factors, we implemented the system "Mobile Activity Monitoring System Using Android Spy" This system is implemented for tracking the daily activity of the users with their android mobiles. The information such as missed call, incoming call, outgoing call, call duration, incoming SMS, outgoing SMS along with its date and time will be tracked and updated to the server this server will be monitored by the administrator. This information can be maintained for security purpose of the organization such as leaking the confidential data and maintaining policies organisation.

I. Introduction

The system "Mobile Activity Monitoring System Using Android Spy" is implemented in android as Front-End and My SQL in Back-End. Mobile phones are everywhere nowadays. Users are performing more activity with their mobile phones in the organization even in working hour so the system is implemented to track over the users what activity they are performing in working hour in the organization. The information will be tracked such as incoming and outgoing calls will be tracked also the information about incoming and outgoing SMS will be tracked and sent to the server and an alert will be sent to the administrator's mobile device as soon as the activity will be performed by the user through their android mobiles. The tracking will be done base on background services running on the user's android mobile device, the apk file will be installed at the registration time of users. All the necessary information about the user such as User id, User name, User Designation, user department, user mobile number will be maintained by the administrator. Administrator can access the user's location at any point and if the any user crosses the specified geographical area of the organization or banned area of the organization an alert will be sent to the administrator's mobile this will have done by fetching latitude and longitude by the spy working in the user's mobile device.

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II. EXISTING SYSTEM

In existing system there is tracking of location can be done of user by using Bluetooth functions i.e. the location will be tracked within a specified range and alert will be send to the administrator's mobile device through Bluetooth. Mobile activity such as missed call, incoming and outgoing call, incoming and outgoing SMS with content is not easily tracked of number of user at a time in existing system.

A. Drawbacks of the Existing System

- More complexity to execute
- Bluetooth has no scope as the Wi-Fi and hotspot concept taking place of it
- It is less efficient
- Installing app on existing system is very hard process
- Through Bluetooth functions we can track one user at one time.
- Security can easily break.

III. PROPOSED SYSTEM

A. Proposed Approach

We proposed the system "Mobile Activity Monitoring System Using Android Spy" tracks the all status of user's mobile such as missed call, incoming call, outgoing call, incoming SMS, outgoing SMS; in addition, the administrator can get alert of what kind of message is transferring and receiving from the device. If any of the employee of organization crosses the specified geographical area instantly an automated alert message will send to the system administrator in the form of E-mail and one message will be send to centralized server for logs and analysis purpose. Administrator can monitor where the employee is exactly whether he is present in is his department or other department or whether he is doing chat with other people in working hours? or he is performing some illegal activities such leaking the confidential data? All such monitoring can be done through this proposed system. Fig. 1 represents the graphical presentation of proposed system.

and sent to the Android app. This template includes eight or more digits, with four of them reserved for the user's personal ATM PIN. The others are randomly generated and placed within the template. When the user enters this PIN template, along with their private ATM PIN, into the terminal, an authentication request is sent to the server. The server responds by sending the transaction details to the client, enabling actions like money withdrawal or checking the account balance. Importantly, the transaction ID is promptly marked as "used" in the server, either immediately after the transaction is completed or after a certain period to prevent misuse by potential attackers. This process ensures both security and a smooth user experience in ATM transactions.

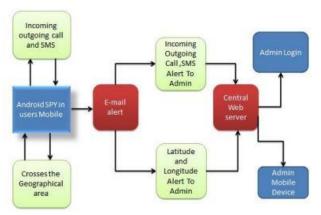


Figure no. 1

IV. SYSTEM PROTOCOL

This system plays an important role to receive an alert from breaches of security of the organization through GPS on their mobile phones with the details of employee. Administrator can easily detect the breaches of security and leaking of the confidential data from one organization to another organization. This system brings awareness in working hours and increases the efficiency in work and provides high level logical security to the industry. This system is not only helpful for organization but also useful for tracking victim with their location, tracking of students performing activity on their android mobile phones in classroom, tracking of kids performing unnecessary activity on their mobile phones by the parents and also can get location alert from their kids, for the government agencies to prevent the data leakage. A. This system focuses on following parameters:

- 1) Easy to use and track devices
- 2) It is Less Expensive
- 3) Number of users can be tracked
- 4) Provides Security to find data leakage and security breaches in the organization
- 5) Provide instant alert to the administrator

To meet the all this parameters "Mobile Activity Monitoring System Using Android Spy" is proposed.

V. CONCLUSION

"Mobile Activity Monitoring System Using Android Spy" is developed for Android mobile phones. The main objective of this model is to monitor the employee or user in case what activity they are performing with their mobile phones for security purpose. All this information will send to the administrator's mobile device as well as on centralized web server through the Android Spy. This system also tracks the location of employee and sends to the manager if they crossed the specified geographical area of the organization. It is very useful system for monitoring user and employee of any organization. It will improve the performance of

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organization effectively. It also helps to use working hour effectively. This system helps to maintain the security of any employee base organisation; on the other hand, it helps to track children also in minimum time. It is socially beneficial.

VI. FUTURE SCOPE

Develop a secure, user-friendly mobile activity monitoring system with ethical considerations, focusing on compatibility, customization, and continuous improvement for optimal user experience and legal compliance.

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