

ACTUAL TIME TRACKING SYSTEM OF AN NON-PUBLIC AGENCY

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ABSTRACT

Smartphones now days are very tremendous equipment for growing computational energy and storage capacity. They enable cease consumer to operate various duties and be up to date whilst on the move. Our proposed "Real Time System for Monitoring the Personal of an Organization" is a device which video display units the employee's mobile telephones furnished by using the organization. All Activities such as incoming, outgoing, ignored call, SMS history, net history, information usage, unauthorized name list/web website listing are saved on centralized database. Manager can see those records via logging into centralized server. Manager can additionally hint out employee's modern-day region (through GPS). Employees are going backyard of organization premises then supervisor get alert message in SMS format. We analyse the worker conduct via the use of no. of unapproved calls and exceeding statistics utilization (good/bad/average/loyal). The gadget which is given to worker have to be android based totally device. Manager does no longer want android device. It might also be any device. This gadget is very useful for the manager to locate out the things to do which are accomplished by way of employee. Keywords - GPS, Android, Employee's behaviour.

I. INTRODUCTION

Now a days Android is a Powerful and most famous running device which makes life greater cosy and superior for users. Android is running machine which helps massive range of functions in Smartphone. Android is an open supply for builders to advance utility and sale them in android market. Open Handset Alliance let with the aid of Google developed most famous cell working machine Android. Some of the characteristic and specs are:

1. Application framework: It allows reuse and alternative of component,
2. Dalvik Virtual Machine: It is optimized for cell device,
3. Integrated Browser: It is primarily based on the open supply net package engine,
4. Optimized Graphics: -It is powered by way of a customized 2D snap shots library; 3D photographs primarily based on the OpenGL ES 1.0 specification,
5. SQLite,
6. Media Support,
7. GSM Technology,
8. Bluetooth, EDGE, 3G, Wi-Fi,
9. Camera, GPS, compass.

Android is relying on Linux model 2.6 which grant offerings like Security, Memory management, Network stack, Process administration and driver model. Android grant SDK for improvement of one-of-a-kind new application.

Android consist of 4 layers:

1. Applications.
2. Applicaton framework.
3. Libraries, a. Android Runtime.
4. Linux kernel.

Linux kernel is the fundamental layer which consists of hardware driver which are fundamental for controlling and speaking with hardware. Libraries are the subsequent layer which consist native libraries. Native libraries consist of floor manager, media framework, SQLite, Web kit, OpenGL. Android runtime consist two essential parts: Dalvik Virtual Machine, Core java libraries. DVM is like a JVM which is developed by using Dan Bornstein of Google which is used for executing application. DVM requires `_.dex` 'documents which is constructed from `.class` file at the time of compilation. DVM approves more than one cases of digital Machine concurrently which additionally supply security, isolation, threading and reminiscence management. Core java libraries grant most of the functionalities described in java SE libraries. Applications are the pinnacle layer in

android structure the place our functions are long past fit. Real Time System for Monitoring the Personal of an Organization the usage of Smartphone is supported by using organization. Real Time System for Monitoring the Personal of an Organization music the all the things to do of Employee 's telephone smartphone which is in Wi-Fi. Activity, Service, Broadcast Receiver, Content Provider are the most important aspects of Android. Activity consists of GUI screen. Services consist of historical past process. Broadcast receiver consists of all the facts about calls, SMS, etc. Content issuer includes database like Message DB, Bookmark DB, and content material DB.

II. LITERATURE SURVEY

Sr.no.	Year	Author name	Paper title	Work done
01	2013	Mr .R.Anand	"Mitter-bitter monitoring system"	Using android smartphone's -present an approach which tracks incoming, outgoing calls, SMS and location of employee.
02	2011	Ms.Bhagya Panduranga Naik	"SAR operation based on call log and location details using GPS and Android Smartphone"	Present an approach in which the authorized agency will know all the incoming call, outgoing calls, text messages send by an unknown person to that cell phone.
03	2008	Mr. Anjor Jadhav	"Track Your Buddies"	Present an approach which calculates the distance between the user and the located friends resulting interest being shown to the ones who are nearest to the user and send SMS to the nearest user.

III EXISTING SYSTEM

In the present machine monitoring of incoming, outgoing calls and SMS is done. Android cellular terminal is related to 3G network. Tracking is achieved through fixing tags in one-of-a-kind region to pick out the precise function of employee. The conversation hyperlink to administration server is managed by way of 3G community which is pricey than WIFI network. Calculating worker conduct is no longer possible.

3.1 Limitations of present system: -

The supervisor can't hint out the Employee 's things to do like internet history, unauthorized name records and unauthorized net listing in the mobile. The supervisor can't be aware of the Employee 's behavior. Manager can't get alert message on his/her cellular phone. format. Managers might also later login into the centralized server and view the small print of their Employee 's cell usage. The supervisor can calculate the conduct of their employee 's.

3.2 Architecture of proposed system: -

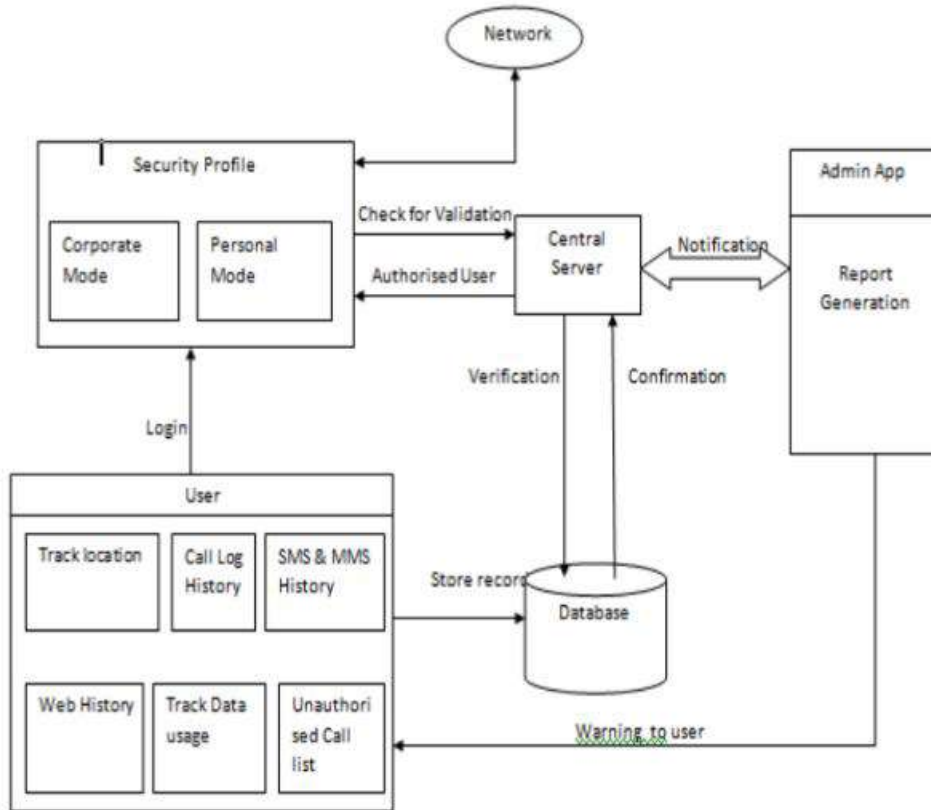


Figure: - Architecture

3.3 Call Logs: -

Employees ought to no longer use their agency smartphone for non-public use, if they name to an unapproved quantity from employee list, it will be logged on to server. Calls Logs have to exhibit the important points of incoming and outgoing calls records from employee ‘s cell phone like date, time, and telephone number.

3.4 Message History: -

Manager have to get the message records from worker mobile phone cell phone like text messages (inbox/sent/draft) and multimedia message with date and time of worker mobile phone.

3.5 Track Employee Location By the use of GPS: -

Employee region receives through the use of the GPS. If worker goes outdoor of authorized geographical zones, then a notification is dispatched to managers.

3.6 Unauthorized Call/Website List: -

Managers need to be in a position to replace listing of unauthorized web sites that ought to no longer be accessed by way of employee. Managers can dis-approve the worldwide calls for the employee.

IV PROPOSED SYSTEM

We are enforcing some features for worker monitoring device that approves Managers to screen their employee's workplace mobile phone. A supervisor can be viewed all incoming and outgoing calls, textual content and multimedia messages. The Manager can additionally screen the place their Employee are (through GPS i.e., Global Positioning System, is the machine that allows to comprehend the location), get right of entry to a record of the place they've been and set up signals if their Employee are going backyard of accredited geographical zones. Android cellular terminal are linked to WIFI community for statistics switch between two cell terminals effectively. Tracking can be made except any distortion in the network. Because of WIFI community statistics is saved and retrieved in the sever at very excessive speed. This gadget makes use of Android primarily based cellular telephones for the software to be run. Employee need to have an Android primarily based gadget and the Managers may additionally have any variety of cell devices. Manager can get signals from the Employee in SMS structure only. Manager shops all the important points of employee 's mobile phone smartphone in the centralized server like the small print of incoming call, textual content and the area replace of their Employee. Managers can view this small print later by means of logging into the centralized server. The supervisor can calculate the conduct of their Employee 's by using the use of k-means clustering algorithm. Message is dispatched to the cell terminal securely with the aid of the usage of AES encryption algorithm. The Features of the proposed machine the supervisor can song Employees all day-to-day things to do like SMS, MMS, call, facts usage, unauthorized call/website list. It additionally brings the cutting-edge place of the Employee. If the Employee crosses the special Geographical vicinity, then an alert message will be dispatched to the Manager's cellular as a SMS.

4.1 Know the Employee behaviour: -

No of unapproved calls, exceeding statistics utilization is calculated for every worker then k-means clustering algorithm is utilized on these parameters to calculate the suggest a distinct clusters. Each cluster shows one of a kind worker conduct (Good- Loyal/Average/Bad).

4.2 Web Browser History:

The module has to exhibit the net browser history of employee 's smartphone and keep internet important points on server. List of licensed web sites is maintained in server database.

4.3 Data Usage:

The module has to exhibit facts utilization data in the structure of MBs of data. Manager can without difficulty watch on statistics utilization Basic block layout.

V CONCLUSION

Real Time System for Monitoring the Personal of an Organization the usage of android smartphone is presented in this paper. Using this machine, it is feasible to tune all the things to do of employee 's cell phone cell phone which is supplied by way of precise employer and it is additionally viable to be aware of manager conduct of employee 's in accordance to their mobile telephone things to do like Incoming and Outgoing name history, SMS history, Web history, Data usages. It is additionally viable to music employee 's modern-day location.

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