

# Context based Mobile Information Catalog Surveillance

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**Abstract** *Context based Mobile Information Catalog Surveillance is a mobile phone based communication applications. Many applications need the ability to do real-time notification when process occur. Often the people who need to be kept aware of events are in a nearest location. Here the alike is to providing the notification to the user whenever they desire to converse alongside their mobile nearby. To find the link log from the Android mobile mechanisms whenever we needed the link and change the profile mode of the mechanism for our sufficient. This application proved to get the recent call logs details when you sent a command as message to the device. And the user can change the profile mode of their mobile threw passing commands profile modes such as Silent, Normal and Airplane mode can be change threw passing commands. It is used on Business point of view surveillance and Security. If the user need to surveillance his mobile and he need to access the last message, the recent call logs which may be important or you need to access the contacts our application will get such information and pass them in the text message format to the commander mobile. The commander is the owner who sent the comment to the mobile to surveillance his mobile.*

**Keywords:** Insertion anomaly, Normal Form, Deletion anomaly, Update anomaly.

## I. INTRODUCTION

Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm and area of application. Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built. Beginning, once system requirement have been specified and analyzed, system design is the first of the three technical activities -design, code and test that is required to build and verify software. The importance can be stated with a single word "Quality". Design is the place where quality is fostered in software development. Design provides us with representations of software that can assess for quality. Design is the only way that we can accurately translate a employee's view into a finished software product or system. Software design serves as a foundation for all the software engineering steps that follow. Without a strong design we risk building an

unstable system – one that will be difficult to test, one whose quality cannot be assessed until the last stage. During design, progressive refinement of data structure, program structure, and procedural details are developed reviewed and documented. System design can be viewed from either technical or project management perspective. From the technical point of view, design is comprised of four activities – architectural design, data structure design, interface design and procedural design. It is a process of converting a relation to a standard form. The process is used to handle the problems that can arise due to data redundancy i.e. repetition of data in the database, maintain data integrity as well as handling problems that can arise due to insertion, updating, deletion anomalies. Decomposing is the process of splitting relations into multiple relations to eliminate anomalies and maintain anomalies and maintain data integrity. To do this we use normal forms or rules for structuring relation.

**Insertion anomaly:** Inability to add data to the database due to absence of other data.

**Deletion anomaly:** Unintended loss of data due to deletion of other data.

**Update anomaly:** Data inconsistency resulting from data redundancy and partial update

**Normal Forms:** These are the rules for structuring relations that eliminate anomalies.

### A) *First Normal Form:*

A relation is said to be in first normal form if the values in the relation are atomic for every attribute in the relation. By this we mean simply that no attribute value can be a set of values or, as it is sometimes expressed, a repeating group.

### 2) *Second Normal Form*

A relation is said to be in second Normal form is it is in first normal form and it should satisfy any one of the following rules.

- 1) Primary key is a not a composite primary key
- 2) No non key attributes are present
- 3) Every non key attribute is fully functionally dependent on full set of primary key.

### 3) Third Normal Form

A relation is said to be in third normal form if there exists no transitive dependencies. Transitive Dependency: If two non key attributes depend on each other as well as on the primary key then they are said to be transitively dependent. The above normalization principles were applied to decompose the data in multiple tables thereby making the data to be maintained in a consistent state.

## II. RELATED WORKS

Mobile learning with cell phones offers a unique response to our need. It can retrieve the data from already defined database in offline and it does not communicate with other mobile devices. And we cannot retrieve the data from other android device. We cannot communicate with other mobile without need any intruder. We can't make remote access the prior information through the SMS for our own mobile device. We can't save the mobile in remote access and can't make the business view for our mobile in remote access. Existing policy systems will not cover all the possible ways in which applications can't access user data from one to another mobile. Finally, existing system policy are not accurate enough to retrieve the data from one to another device.

## III. PROPOSED SYSTEM

This application proved to get the recent contact details when you sent a message to the device. And we can change the Profile mode of the device for need to avoid your device from other people surveillance. If it is highly confidential then we can shut down our device from outside of the area. Then you may want to see contact list those which are think from your mind alphabetical contacts you can get from your mobile.

### Advantages:

1. Can access our contact details whenever we want through remote access.
2. To provide the security for our android devices because we should change the profile mode through remote access.
3. Main objective is to give the surveillance to our android mobile.
4. Business point of view it is efficient to handle the situation and problems.

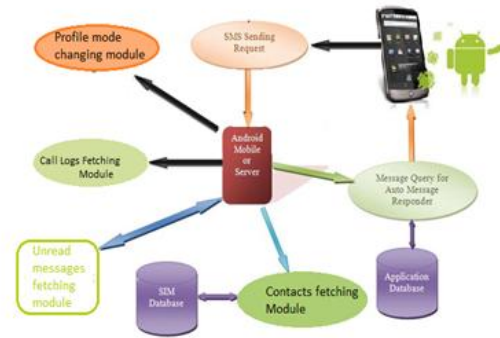


Figure 1: Architecture Diagram

## IV. METHODOLOGIES

1. Database read the Message Body
2. To retrieve the Contacts from Mobile
3. To retrieve the Incoming Call logs from Mobile
4. To retrieve the outgoing Call logs from Mobile
5. To retrieve the Missed call logs from Mobile
6. To retrieve the Message from Mobile
7. To change the Profile Mode

### 1. Send the SMS from mobile :

SMS stands for short message service. SMS is also often referred to as text, sending text messages or text messaging. The service allows for short text messages to be sent from one cell phone to another cell phone or from the Web to another cell phone. The SMS Manager manages SMS operations such as sending data to the given mobile device. You can create this object by calling the static method. Once you have object, you can use calling method to send SMS at the specified mobile number as below

Using phone number, null, "SMS text", null, null. Apart from the above method, there are few other important functions available in SMS Manager Class.

### 2. Database read the Message Body

This article is useful for you if you want to develop your own SMS (or another service) handler. As a sample, I choose received SMS handler that receives SMS, encrypts them, and puts into the SMS table of the Android system database. Manifest is a very important part of an Android application. You can find everything

about the Android manifest by this link. And now I'll try to describe every line that is important for us. The first are permissions. The application must receive, write and read SMS from the database. The main class that receives the SMS is receiver. It extends Broadcast Receiver class.

This is the main concept of any Android service or receiver. Any child of Broadcast Receiver must contain the receiving method, which receives Context and Intent parameters. You can find all additional information on the Android developer documentation site.

### **3. Compare the message content to Database :**

Text Secure can use SMS/MMS to communicate with non-Text Secure users. The app can therefore be used to replace the default SMS/MMS application. Messages that have been sent via SMS/MMS and messages that have been sent via the user's data connection can be distinguished by color. Green text bubbles indicate SMS-based communication and blue text bubbles indicate communication over a data connection.

By default, Text Secure will send the messages over the user's data connection if possible. This means that if the user sends a message to another registered Text Secure user, there is no SMS charge associated with the message. It is merely treated as an additional data transfer. If the data connection is unavailable, the application will fall back to using SMS/MMS to transport the message. The application will automatically encrypt all conversations held with other registered Text Secure users. In the user interface, encrypted messages are denoted by a lock icon. Media and other attachments are encrypted in the same way as other messages.

Regardless of whether the messages were sent to another Text Secure user or not, Text Secure can store the messages in an encrypted database on the user's device if the user has a pass phrase enabled

### **4. To retrieve the Contacts from Mobile**

Data Doctor is one of a number of so-called recovery tools on the market for various tasks such as retrieving lost photos and mobile phone messages. Some are totally rubbish. Before and after using anything of this sort, we recommend you update your Internet Security or anti-virus software and run a security scan on your PC and check for anything that might cause concern. Most such programs let you have a trial of the software whereby it scans the media card or disk to be recovered and shows you whether or not your images are still there, then puts up a pay-wall so you pay a fee to get at the content you want to retrieve. Any such software you use should give you at least gave you this much information before you pay for it. Software to retrieve information from a SIM card works in a similar fashion but won't work if there's PIN code on the SIM card preventing access.

The other issue is whether the messages you want to recover were stored on the SIM in the first place or were actually stored on the phone memory. If you've removed the SIM from one phone and put it in another handset, this could be where your messages have gone. If you deliberately deleted the messages, they may simply be gone forever. Although forensics will allow messages to be recovered, it's doubtful that a program such as the one you have will be able to dig sufficiently deep into the phone to do this. Two other file recovery options to try are recover and Restoration. We've used these with some success for getting back accidentally deleted items.

### **5. To retrieve the Message from Mobile:**

We receive the information through the SMS for our mobile at many times. SMS-based transactional alerts are SMS's sent each time a change occurs in a bank account, for example, or when our credit card is used then we will get an SMS on our mobile phone. Suppose we left the mobile we can't access the information from our mobile without any intruder. Reading cell phone text messages online is an idea that crosses the minds of many parents of twin and teens. Businesses can also use this capability to track monitor any individual abuse of company cell phones as well as recording business text conversations. Multimedia phones now make it possible to read text messages online by allowing access to Internet applications that will track cell phone messages sent through Short Message Systems. Software is available to track messages sent from cell phone to cell phone

### **6. To change the profile Mode:**

This is the ability to set volume level, turn on and off radios, and adjust screen brightness based on the time of day, your location, the power situation, or just your preference. Multiple user Mode is the ability to give the phone to another person, let them log in with their own account information, and any changes they make are done under their account. They give the phone back to you, and you'll have none of their clutter, photos, emails, or apps on your account. This enables you to give your phone to a relative to play with at a picnic and not get it back with 10,000 pay apps downloaded via Google Play, and all your email and icons deleted.

### **7. To change the airplane mode :**

Sure, Android users don't have fingerprint scanners (well, maybe one), but that doesn't mean you're stuck when it comes to security. Here are some of the best apps you can download to boost security on your phone without buying all-new hardware. Of course, it's worth pointing out that any airplane mode security is only a stumbling block. Securing your data on your phone should be done with a complete remote wipe solution (Google even has its own already associated with your account). At best, any airplane mode security will keep curious eyes or clumsy thieves out from unwanted fraud while attending a call.

### 8. To retrieve the Incoming Call logs from Mobile:

To get the call logs which is may be Incoming call logs or Outgoing call logs or missed call logs. If suppose the user want to get the recent call logs then he send the SMS to the current working android mobile and he get the recent contact logs that may have incoming call logs otherwise outgoing call logs or it may have missed call logs.

### 9. To retrieve the Outgoing Call logs from Mobile :

To get the call logs which is may be Incoming call logs or Outgoing call logs or missed call logs.If suppose the user want to get the recent call logs then he send the SMS to the current working android mobile and he get the recent contact logs that may have incoming call logs otherwise outgoing call logs or it may have missed call logs.

### 10. To retrieve the Missed Call logs from Mobile :

To get the call logs which is may be Incoming call logs or Outgoing call logs or missed call logs. If suppose the user want to get the recent call logs then he send the SMS to the current working android mobile and he get the recent contact logs that may have incoming call logs otherwise outgoing call logs or it may have missed call logs.

**Data Store:** Data cannot move directly from one data store to another data store, a process must move data. Data cannot move directly from an outside source to a data store, a process, which receives, must move data from the source and place the data into data store a data store has a noun phrase label.

## V. SIMULATION RESULT

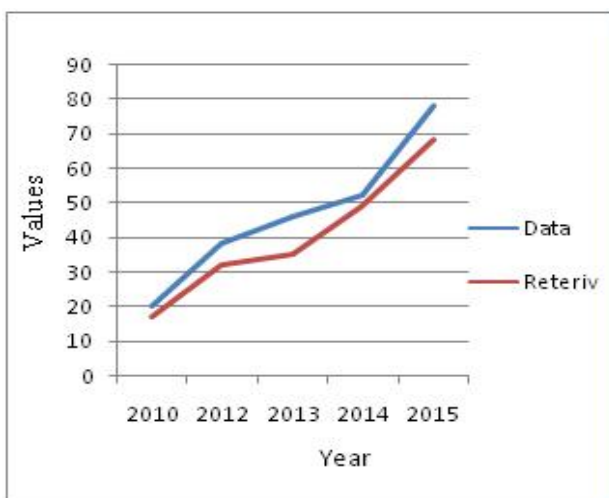


Figure 2: Comparison Of Data Values And Retrieve Of Year Wise

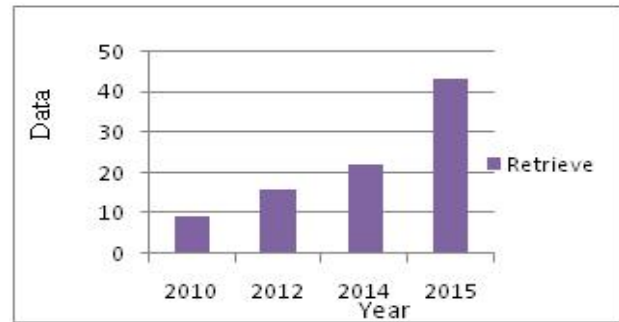


Figure 3: Data Retrieve

## CONCLUSION

Mobile Information catalog surveillance is just beginning. Only now are technologies emerging that will support basic default information contains our mobile , but even these technologies offer the ability to get the recent contacts for our requirements. New technologies will support the applications of greater sophistication. And we can access the email through this technologies and get the meaningful results. Then if we want to give the more security to the mobile to lock the keyboard otherwise switch off your mobile.

## REFERENCES

- [1] Gartner Says Smartphone Sales Accounted for 55 Percent of Overall Mobile Phone Sales in Third Quarter of 2013, <http://www.gartner.com/newsroom/id/2623415>, 2014.
- [2] Are Your Sales Reps Missing Important Sales Opportunities? [http://m.sybase.com/files/White\\_Papers/Solutions\\_SAP\\_Reps.pdf](http://m.sybase.com/files/White_Papers/Solutions_SAP_Reps.pdf), 2014.
- [3] Unisys Establishes a Bring Your Own Device (BYOD) Policy, [http://www.insecureaboutsecurity.com/2011/03/14/unisys\\_establishes\\_a\\_bring\\_your\\_on\\_device\\_byod\\_policy/](http://www.insecureaboutsecurity.com/2011/03/14/unisys_establishes_a_bring_your_on_device_byod_policy/), 2014.
- [4] W. Enck, P. Gilbert, B.-G. Chun, L.P. Cox, J. Jung, P. McDaniel, and A.N. Sheth, "Taintdroid: An Information-Flow Tracking System for Realtime Privacy Monitoring on Smartphones," Proc. Ninth USENIX Conf. Operating Systems Design and Implementation(OSDI '10), pp. 1-6, 2010.
- [5] C. Gibler, J. Crussell, J. Erickson, and H. Chen, "AndroidLeaks: Automatically Detecting Potential Privacy Leaks in Android Applications on a Large Scale," Proc. Fifth Int'l Conf. Trust and Trustworthy Computing (TRUST '12), pp. 291-307, 2012.
- [6] Y. Xu, F. Bruns, E. Gonzalez, S. Traboulsi, K. Mott, and A. Bilgic, "Performance Evaluation of Para-Virtualization on Modern Mobile Phone Platform," Proc. Int'l Conf. Computer, Electrical, and Systems Science and Eng. (ICCESSE '10), 2010.