Overview of Android based Remote Administration System

Ms. S. H. Kuche[1] Sakshi Matalkar[2] Ankita Kene[3] Shreeya Mate[4] Vishal Ghodeswar[5]
[1,2,3,4,5]Department of Computer Science & Engineering
[1,2,3,4,5]Prof. Ram Meghe Institute of Technology & Research Badnera, Maharashtra, India

Abstract— All are familiar with both mobile phones and computer like home PC, laptop, etc. and also all are having mobile phone with high and low prices. The computer can be controlled by a user by using client server basis. There are some various limited options available to the people when they are not connected to the internet to access their workstations. Most of the options available are tedious, expensive and unsecure. Hence there was a need for an easy to use, application that will be able to connect the users while being offline from their cell phones and access their data regardless of their location anywhere in the world.

Key words: Administration, Android, Interface, Remote System, Synchronization, Virtualization

I. INTRODUCTION

A. Remote Administration

Remote administration is nothing but any method of scheming a computer from a remote location or from distant location. Software that consent to remote association is becoming progressively more common and is often used when it is intricate or impractical to be physically near a system in order to use it, or in order to admittance web material that is not available in one's location.

B. Internet connection

Any type of computer with an Internet connection, TCP/IP or on a Local Area Network can be remotely administer For non-malicious administration, the user or client must install or facilitate server software on the host system in order to be view. Then the user/client can effortlessly admittance the host system from another computer by using the installed software.

The client or user may then control the host as if he/she were sitting right in front of it. Certain versions of Windows XP have a integral remote administration enclose called Remote Desktop association or connection. A free cross-platform substitute is VNC, which offers comparable functionality.

II. LITERATURE REVIEW

There are amount of projects that are carried out and number of the structural design are purposed for the remote control system. The remote control are consistently insist their work on the capture the screen and events from the remote system. But this work is frequently created for the one system to server system which controls the device. As the some smart cellular phone manufacture are create their own application for the connecting the device for the management of data from mobile to desktop system. Samsung created tool as Kies which is used for harmonization of the music, video, photos and updates of firmware, but it will not help to control processes, application and services .Another aspect was considered for the remote commencement mechanisms which concentrate on achieving the remote display. The Virtual Networking Computing which is one of the most well-liked system that can be used for remote control of strategy.

III. ARCHITECTURE

The Fig.1 illustrate the overall architecture of the system which embrace the android phone , one server machine and LAN which is also connected to the server machine.

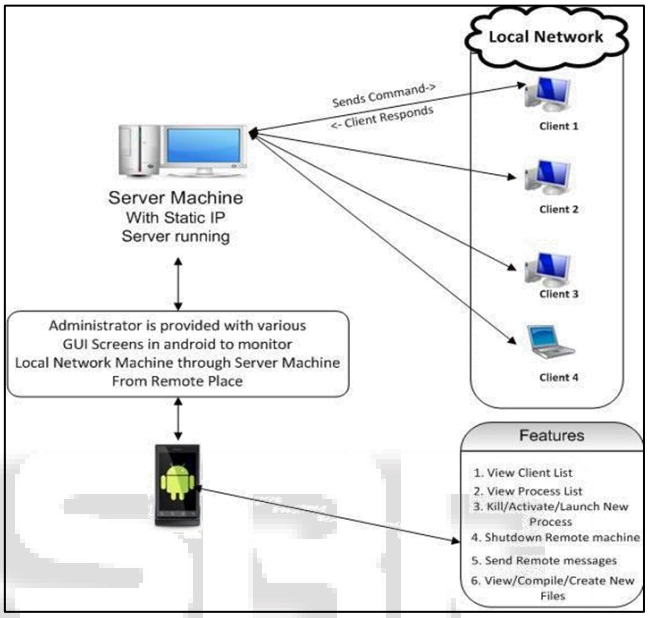

Fig. 1: Overall Architecture of Remote Administration using Android Phone

In the above architecture have course of action which will execute with android phone and also with the server machine. The whole structural design is divided on the three parts as client module, server module and android module. The process of the architecture will be ongoing like first start the server application which will be installed on the machine which also in the same LAN (Local Area Network). The server relevance start up collecting the list of client machine ongoing and list out their name is the application.

IV. TECHNOLOGY USED

A. GPRS Technology

GPRS technology has become the most resourceful communication system for adding the content on to the mobile devices. Usage of GPRS has grown immensely over the past few years and many GPRS based applications are the most ubiquitous services in the wireless world today.

B. ANDROID Technology

One of the most widely used mobile phone OS (operating system)in these days is android. Android does a software cluster comprise not only operating system but also middle level and key applications. Android is a most functional Operating System supporting a large number of applications in Smart Phones.

C. .NET Technology

This technology is used to connect to the clients and sending the packets from controller to the system. This technology act like a mediator between server and the clients. Clients send the request to server and server send response to clients, after that the packets had been send to the clients.

V. ADVANTAGES

A. Security

As all of your significant data including files and documents will be held in the most sheltered data centers in the world, there's virtually zero chance of theft or loss. Connection to the remote desktop are protected by state-of-the-art encryption technology, which reduces the risk of hacking of data and data-loss cases common with standard computing and networking.

B. Flexibility

The interior purpose of RDS is to allow workers to perform their duties from factually anywhere at any time. The only thing needed is a computer and a secure internet connection, which adds up to the kind of liberty and litheness that would be otherwise entirely impossible.

VI. DISADVANTAGES

A. Downtime

If the service provider is anything other than unblemished in its consistency and recital, there's a strong risk of downtime and when it comes to downtime in the world of RDS, it can depart the entire network/system unapproachable until the necessary conservation have been made.

B. Network Dependency

The above system will work fine just as long as all third-party computers have strong and consistent internet connections available to them. If not, the system is utterly out of reach.

C. Range Limit

This app has a partial access within a campus, organization or near about range 1 to 2 km. If the range of this application not in 1 to 2 km the clients are not connected and it show red symbol in application in front of clients.

VII. APPLICATION

Application can be found in following segment:

A. Security

This relevance depends on internet as we know, through internet there are lots of hacker who can hack into your system, but in this application we provide the security by making our own protocol, controller to communicate with clients.

B. Automatic Meter Reading

This relevance is also useful for automatic meter reading this application also keep the all records of reading and send this reading to end user and alert the customer to pay the bill within a times.

C. CCTV

This application is useful for observance eyes on clients that what clients does on the system. It provide security to keep the track of all the working of clients.

D. Pollution Control

This application also supportive for pollution control. This application shows how the pollution is increase in environment and what we should do to overcome this pollution.

E. Personal Monitoring

This application also use for personal purpose like Home, Society, etc.

VIII. FUTURE SCOPE

The future scope of this application will verify helpful and effortlessness of use for the network administrator while using of their mobile phones and devices. This app also the use for scheming the clients from anywhere and see how the clients actually work on the system. Server or admin know the all working about the clients from anywhere.

IX. CONCLUSION

In this paper there is obtainable the architecture for Remote control of LAN, this architecture also incorporate the socket programming, RMI for transferring object over network and storing information at remote database. The architecture will also endow with socket programming for connection between mobile and system or user system, architecture also allows executing operating system commands for manipulating files. This application provides the network executive tasks such as monitoring the LAN (Local Area Network) with only one application.

REFERENCES

[1] Prof. C. S. Nimodia, Prof. S. S. Asole, "A survey on Network Monitoring and Administration using email and android phone", International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 3, Issue 4, April 2013

[2] Prof. Mamata Bhamare, Tejashree Malshikare, Renuka Salunke, Priyanka Waghmare, "GSM Based LAN Monitoring and Controlling", International Journal of Modern Engineering Research (IJMER), Vol.2, Issue.2, Mar-Apr 2012

[3] Archana Jadhav, Vipul Oswal, Sagar Madane, Harshal Zope, Vishal Hatmode. "VNC Architecture Based Remote Desktop Access Through Android Mobile Phones." International Journal of Advanced Research in Computer and Communication Engineering, April 2012.

[4] Nitin D. Shelokar, Dr. S.A.Ladhake, "Network Handle by mobile", International Journal of Computer Trends and Technology, May to June Issue 2011

