Remote Desktop Monitoring Using Android Mobile Phones

Miss.Minal Mishra[1] ; Miss.Diksha Maske[2] & Mr.Nachiket Deshpande[3]

Department of Computer Science & Engineering RTMNU University
mishrminal@gmail.com; dikshamaske06@gmail.com; nachiketd02@gmail.com

ABSTRACT:

In Today's technical world the android operating system based smart phone plays a huge role in the technical field, and also provides various useful applications which can be used in day to day lives. This system will see how the remote desktop with static IP can be accessed using android based mobile phones, to develop this application we used virtual network computing architecture. The key objective of the system is to remotely access and monitor different tasks running on the PC by connecting it to an android operating system based mobile phone through a network .This system turns your mobile phone into a controller and viewer that can monitor the tasks running on PC and also view its desktop. The system will discuss the process of accessing and monitoring the computers with the help of android cell-phones. This process is based on virtual network computing

Keywords- Remote Desktop; Android; Server; Client.

INTRODUCTION

The advancement in android operating system has brought a drastic change in the technological and cyberspace field related to mobile phones. Now a days, smart phones are used globally and provide tremendous facilities than the ones provided by previously available mobile phones. The features which were previously provided by computer system architecture are now provided by these phones. In the proposed system, we describe the system which can provide monitoring of remote computer system within the Wi-Fi network or any internet network and provide features like desktop monitoring, task managing, viewing screenshots of desktop etc. Proposed system will be executed on android based mobile phones and also on android software stack. Android software stack is used on a large scale for networking packages, executing android applications before executing it on mobile phones. By taking into consideration the most important issue of security, authentication is provided at client side. TCP/IP protocol are used for exchange of information amongst client and server. There are several systems and applications already designed to permit remote monitoring between devices. There are many architectures available to control the PC through mobile devices but it is necessary for both the devices to be in same network or Wi-Fi zone. The hidden eye architecture provided by manufacturers are usually designed as internal solutions and they partially cover the features required for the efficient use of it. Remote envisioning mechanism is the another aspect that is useful to achieve remote display on other devices.

Many systems are designed to perform remote control of device , the most popular is virtual network computing. There are number of implementations of proposed system which can be applied on android software stack. The proposed system is designed to overcome the limitations of mobile devices and create more affordable environment. The solution suggested could be used to perform configuration remotely. The android platform provides debug functionality on devices. This uses a protocol to offer a service of server when client is configured on the device and is integrated on the platform. The improvement in android platform is emerging continuously and it is expanding on large scale. The heart of the proposed system is to make use of android platforms for remotely controlling and accessing other devices such as computers

OVERVIEW

"Remote Control of Mobile Devices in Android Platform Angel", in this existing system we came across the remote frame buffer protocol which is being used for client server connection. In this protocol 3 phases of working exists. Handshaking phase, initialization has and normal protocol interaction phase. To use this, it is necessary to install this application on user's android mobile phone and on administrators PC. It is not required to install this application on clients PC. User logins in the application sends a request for connection to the server. If it allows the user to go further, then the user chooses the PC he wants to access. And thus the result of the

International Journal of Research

ISSN: 2348-6848 Vol-3, Special Issue-3

International Conference on Research and Recent Trends in Engineering and Technology. (ICRRTET)

Held on 27th January 2016 organized by **Sai Polytechnic College,** Kinhi Jawade, Yavatmal, Maharastra, India.

application is that the user can monitor and access the target PC.[1]

"Virtual Network Computing", Internet Computing. This system consist of a model which has, a shared pool of consolidated computer and storage servers host users desktop applications and data respectively. End-users are allocated resources for a desktop session from the shared pool on-demand, and they interact with their applications over the network using remote display technologies. Understanding the detailed behavior of applications in these remote desktop utilities is crucial for more effective QoS management. However, there are challenges due to hard-to-predict workloads, complexity, and scale. In this , we have a detailed modeling of a remote desktop system through case study of an Office application - email.[2]

"System Analysis & Design", Elias M. Awad Galgotia Public where we referred about Remote desktop protocol. Remote Desktop Protocol allows a client to communicate with a Windows server. With RDP, you can run applications on a server from a remote client. RDP uses authentication and encryption to prevent traffic from leak. But the methods used have vulnerabilities and may encounter attacks. A security-enhanced approach is proposed and implemented.[3]

"Controlling PC Application through Mobile Phone", P.Sonam Mishra, J. Anjali Singh, Harshali Patil in which we came across is about how to control PC applications remotely inside a house, an office, or a conference room. As the remote control device, we consider using a cell phone purpose pocket PC Computer with Bluetooth Capability .For this purpose, we have designed and implemented a mobile system software,called Pocket Wizard ,that enables a cell phone to act as a remote controller device for desktop PCs And their applications.In this we have studied the architecture, and how we have realized it. Pocket Wizard is a system or tool that allows users to control their desktop computer applications from a cell phone by using its inbuilt Bluetooth technology.[4]

ARCHITECTURE
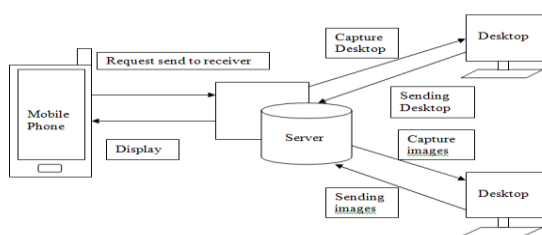
Architecture of proposed system

PROPOSED SYSTEM

The proposed system enables us to view the screen of the clients PC. The access to the client Pc will be done with the help of the IP addresses. The list of IP address helps us to select one of the IP of the client's PC that will be visible to us. Whenever we want to view the video of the screen then we can click on IP address of the respective client and keep viewing. The remote desktop monitoring is the system that is purely designed for android mobile phones version. Once the mobile phone gets interconnected with the server, then our whole network gets formed. In this system we do not have any time limit for viewing the video. We are able to see the live video until we don't stop it. Thus the system is beneficial for all the sectors of society as it helps in monitoring without the concern of the third party which helps in proper and efficient functioning of the organisation.

CONCLUSION

The proposed system will provide facilitation to the system administrator in supervising the tasks of the target PC. The system plays vital role in transmission of information between client and server. The feature that the proposed system will contain is of capturing screenshots of the desktop and are sent on the android based mobile phones. This will help the administrator to supervise the functioning of the supported client. This application ensures flexibility to users for controlling and monitoring their computer from distance. Thus the scope of proposed system will help us to provide easy access to the computer connected to it over a server and a android based mobile phone.

REFERENCE

[1] Gonzalez Villan, Student Member, and Joseph Jorba Esteve, Member, IEEE, "Remote Control of Mobile Devices in Android Platform Angel", September 2009.

[2] Tristan Richardson, Quentin Stafford- Fraser, Kenneth R.Wood and Andy Hopper, "Virtual Network Computing", Reprint from IEEE Internet Computing Volume 2, Number 1, January/February 1998.

[3] "System Analysis & Design", Elias M. Awad Galgotia Public.

[4] "Controlling PC Application through Mobile Phone", P.Sonam Mishra, J. Anjali Singh, Harshali Patil.

[5] Santosh Dahifale, Ritukumari Pandey, Rahul Ballani, Sagar Ingle "Android Desktop Control (ADC) "ISSN 2277-8616 VOLUME 3, ISSUE 4, APRIL 2014.

[6] Harsha Thadani1, Supriya Kumari2, Miranuddin Shaikh3, Neha Baravkar4, Prof. Shubhangi Kale5 "Monitoring PCs using Android" ISSN 2229-5518 Volume 4, Issue 4, April-2013.