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Witness Android Controlling Remote PC

Shubham Bidya, Nikhil Sonawane,
B.E. Student
Dept. of CSE, Pune University
India

Nandkishor Shegokar, Prashank Bhosale
B.E. Student
Dept. of CSE, Pune University
India

Anisaara Nadaph
Assistant Prof.
Dept. of CSE, Pune University
India

Abstract - With the help of an mobile application user can connect to any computer. It is basically an Android based mobile application for communicating with a PC. We can use this application to share files between target PC and Android mobile, start and shutdown the PC, allowing accessing the installed applications of PC. Also this application allows IT Administrators to remotely access their own database of the PC, is utilized by doing the operations on PC like sending video files .By connecting to the web server the android mobile can access the information in certain amount of time interval. Various operations can be controlled by the android mobile device of PC. The whole process is based on VNC server of our computer which is connected to the Wi-Fi- network.

Index terms: Android, IP-address, desktop, Remote desktop, Smartphone, OTP, FTP, GSM

I. INTRODUCTION

Nowadays mobiles and computers are widely used. As there is difference between mobile and computers, so developing an application in which we can manage our computer work through a mobile at any location. We can access our personal computer any time and at any location, anywhere we are, any time we want. It's just like keeping a computer in our pocket and travel anywhere.

II. EXISTING SYSTEM

Existing system uses file transfer from its server so security issues are there .These systems do not have mouse drag and drop option. It cannot be used to power on a target computer from our mobile device from any location. The existing systems do not allow to select a file on the target computer to mail that file to other person from that PC.

III. PROPOSED SYSTEM

Now a day's increasing 3G technologies in today's world and wireless communication it became possible to communicate between the mobile devices and computers. Developing the application that will remotely start a target PC through GSM modem and transfers a file with advanced features than the existing applications. The existing system has drawbacks. This system is very useful and makes work easier.

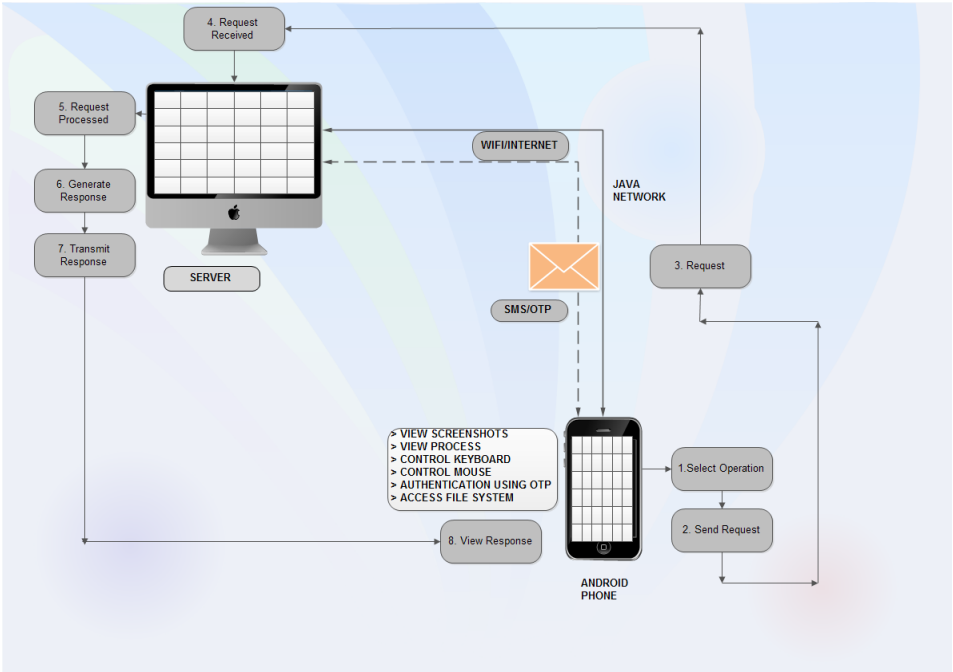

fig 1: system process

Module

- PC power control
- One Time Password
- Screen Capture
- Mouse emulation
- Keyboard emulation
- Remote FTP
- Remote email

A. PC power control

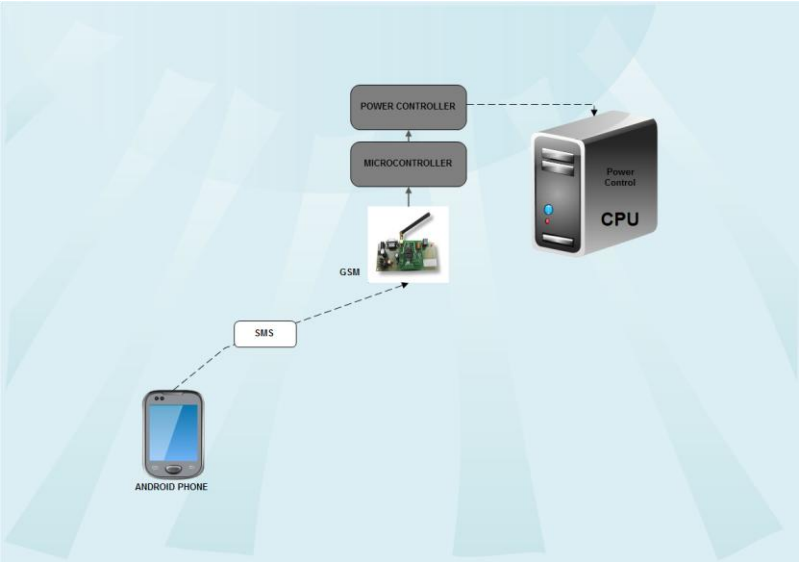

fig 2: pervasive wireless grid

It allows user to start a target PC through an Android mobile phone from any location. For that the GSM modem is required which is attached to the PC, which will start the PC. This message will go with the help of mobile network to the GSM modem.

B. One time password

- To provide a better security to the user by sending new passwords.
- Different passwords will be send to the mobile user on each logging

C. Keyboard and mouse emulation

- It provides keyboard shortcuts on Android phone.
- Giving drag and drop mouse's functions on Android's screen.
- Full access of keyboard and mouse using shortcut keys.

D. Remote ftp and email

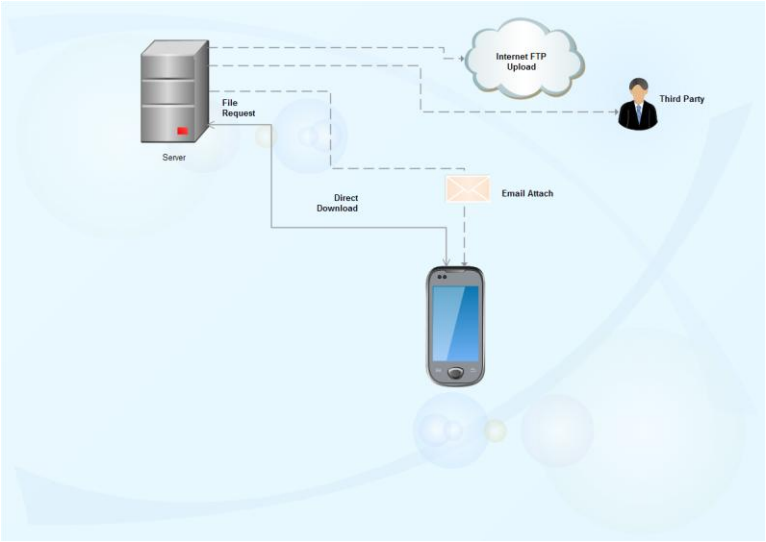

fig 3: android desktop control ftp + email

It allows user to select a file on the computer so that it can be mailed to any Id directly from the PC, without having the need to demand the file first on Android. (saving bandwidth).

E. Screen capture

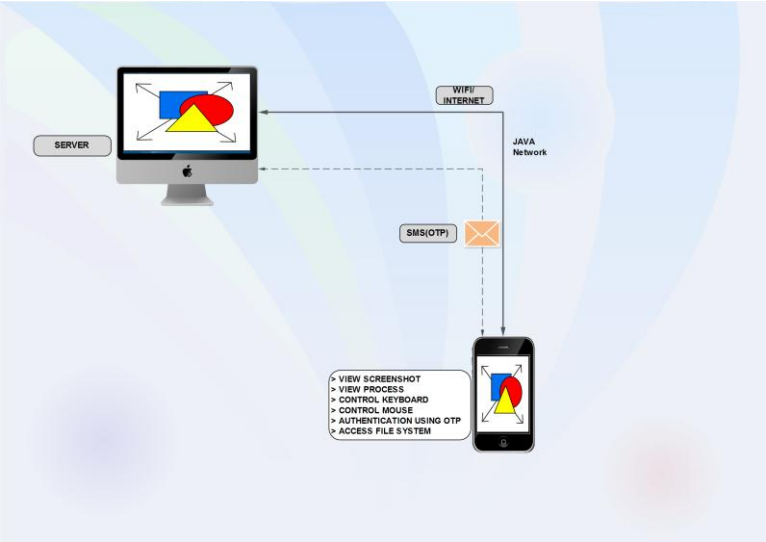

fig 4: android desktop control

It allows user to capture the whole screen of the computer so that it can be accessed from his Android mobile phone at from any location.

IV. TECHNICAL SPECIFICATION

Technology details to be used in the project:-

table I
technical specification.

Software's	Jdk 1.6.0
Programming languages	Java ,Android
Library	Java library
Operating system	Microsoft Windows/Linux

Front End:
Java and Android
Back end:
Java (Serialization)
GUI:
AWT and SWING

V. EXPERIMENTAL STUDIES

The focus is on controlling a PC through Android. Android helps building of new ideas easily and test them with a set of open standards. It is seen that the consumers, who recently purchased a smart phone choose an Android smart phone [1].
Presenting the process to access the computers with the help of Android mobile phones .There are so many applications for Android. These applications are useful in life and make work easier. ARM architecture platform forms basis for the hardware supporting Android software. [2]. Describing a system which provides remote access to computer system.. Wi-fi network is used for access. Various features have been provided which are very useful. Some features are file viewing, desktop access, file transfer. [3].
This paper presents efficient implementation of the advanced features for PC control through android platform .[4].

VI. CONCLUSION

This technology is of great use to software engineer and to other industries as well. Specific needs are met in an efficient way and will serve the requirements of various industry people and others. Thus, in our future work, we will research the user experience based the PC application control system in terms of enabling users to customize the control system themselves**.**

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