Abstract: When the network administrator is placed near the LAN, He/she will be able to take care of all the activities of LAN. What if he/she is to monitor a LAN consisting of hundreds of machines? It is easy to monitor the work of the subordinates when the supervisor or manager is in the same physical location as that of the subordinates. However, if the managing authority is situated somewhere else apart from the location of its team, it is a tedious task to monitor its activities. The system proposed in this document can be used to monitor the LAN of an organization. The system proposed in this document provides an integrated solution wherein the work of the team members situated in a LAN can be monitored through the mobile phone of the manager without the notice of the members thereby improvising the productivity of the team. This system can also be used in a corporate training center where all the training activities are online. By using this Mobile LAN-Controller system, the trainers/invigilators can keep a watch on the whereabouts of the trainee employees.

Keywords: LAN, GSM, J2ME, Client, Server.

I. INTRODUCTION

By 2030, the number of gadgets and computers will touch 40 billion according to a survey. The population will be 8 billion by that time. To put in other words, by 2030, each person will have 5 machines to take care of!! It is not an exaggeration, it is bound to happen. At times the people face a lot of difficulties in monitoring their own machines. Then what about the case of a network administrator who has to monitor several machines (a mind-boggling number)? Need not say, the mobile devices also have become a part and parcel of every human being’s life directly or indirectly. Is there any way that we can utilize these mobile devices to track the devices connected to each other in a LAN? The answer is ‘Yes’. Let us consider a LAN with a server connected to it. The server is in turn connected to the mobile device which controls the LAN. The LAN is controlled by the mobile device through the server.

II. FEATURES CONTROLLED BY THE SYSTEM

A. View the clients:
The list of all the clients working in a LAN

B. View the processes:
The list of all the processes running on the machine in a LAN

C. Activate a process:
A light process can be started on any remote machine in a LAN

D. Kill a process:
Any process can be killed on the machine.

E. Open a file:
A text file can be opened.

F. Shut Down
Even a machine can be shut down if it is misbehaving

G. Save the message on client
A message can be typed on the cell phone and can be saved on the client of a LAN

III. LITERATURE SURVEY


The main objective of this paper is to provide maximum details about the network to the administrator on their email accounts and android phones, when administrator is away from office or goes out station.

In a concern, computers are grouped together to form a network to manage and control activities of network while in office is an easy task, but while you are outstation/away from office to monitor and controlling of network instead of depending on third party information you can always have your cell phone serve the purpose, login anytime to application and see who is busy with what in the office [1].

In the era of internet services & mobile phones, email & mobile applications are widely used and it has penetrated every part of our life, but remote monitoring of networks through email and android mobile applications which are GPRS or Wi-Fi enabled is still a mirage. There can be number of protocols which are used to monitor and control the network using android phone; it can be android protocol and network management protocols or combination of them [2].
IV. ARCHITECTURE OF THE SYSTEM
The administrator is provided with the GUI based application developed using J2ME. The application is opened on the mobile phone of the administrator. He/she has been provided with many options to control the LAN devices including starting the process, viewing the processes running, killing a process, saving a message etc. Before using these options, the administrator might have to complete one step authentication so that illegal users will not control the LAN. Server is the central part of overall system. The cell phone user should interact with the server in order to control the Local Area Network. The web server and the server part program must run in the server. If the cell phone user needs the information regarding the server, then the client part program must run in the server also. The server must be interconnected to all client terminals. The block diagram of the system proposed is as shown in Figure 1.

![Block diagram of the System](image)

Fig. 1. Block diagram of the System

V. TECHNOLOGIES USED IN THE SYSTEM
Operating system: Windows 98/2000/xp/7
Software tool : KToolbar, J2SDK
Server : Tomcat server
Database : MS-ACCESS
Languages : J2ME
Intel Pentium-700MHz or an equivalent/ higher processor
128MB RAM
600MB of hard disc space

VI. CONCLUSION
This system can be used as a simple application to monitor the activities being executed on a LAN. This provides a tremendous opportunity to the network administrator/manager/trainer to ensure that the productivity of the working environment is maintained. As a further enhancement, this system can be modified to make heavy process to run on the client machines just by a click of the button on the mobile device.

VII. FURTHER ENHANCEMENTS
The wireless sensor networks which is progressing rapidly in the current world is finding its way in almost each and every application now-a-days. This system can be modified accordingly to sense the temperature of the machine, processes which are consuming lot amount of processor cycles and kill the processes which are a burden to machines [5][6].

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REFERENCES

BIOGRAPHIES
Shiva Shree Nagendra Robtained his Bachelor’s degree in Electronics and Communication Engineering from VTU, Belgaum. Now, he is pursuing his M.Tech from VTU. His field of interest are Computer Networks, Data Structures, Programming and Server Side Scripting.

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