

# LAN CHAT AND FILE SHARING

Pulkit Singh

Computer Science Engineering, Btech  
IMSEC, Ghaziabad, Uttar Pradesh, India

Muskan Goel

Computer Science Engineering, Btech  
IMSEC, Ghaziabad, Uttar Pradesh, India

Nihal Ahmad Qazi

Computer Science Engineering, Btech  
IMSEC, Ghaziabad, Uttar Pradesh, India

Sakshi Goyal

Computer Science Engineering, Btech  
IMSEC, Ghaziabad, Uttar Pradesh, India

Ms. Juhi Chaudhary

Assistant Professor, Computer Science Engineering, Btech  
IMSEC, Ghaziabad, Uttar Pradesh, India

## ABSTRACT

**The growth of the Internet has led to new and faster ways of communicating. There are now systems that allow users to communicate in real time with one or more people. These instant messaging tools are called IRC (Internet Relay).**

**LAN dialog is a secure offline chat for data transfer. The application over LAN enables the user to communicate with a colleague in the chat room and send and receive messages to another user. This application is safe. Users can download and open files using this app. There is a need for a centralized server where the IP address, username, files are located. The advantage of using this simple LAN agent is that no active internet connection is required.**

**Keywords: LAN, File Sharing, Chat Room, Central Server**

## 1. Introduction

1.1) The LAN and File Sharing Chat application contains all the information about the program and how it works. This contains a user description of the project, as well as a detailed list of priority requirements and a brief description of the change management process thereafter. Our system enables a registered user to communicate in a chat room after providing valid credentials i.e. Username and Password. After a successful login, the user will be allowed to chat and upload and download files. The new user will need to provide an IP Address, Username, Password to Join the Chat Room. Using this program

1. Allows the user to send and receive messages.
2. Upload a secure file and download over LAN.

This contains a user description of the project, as well as a detailed list of priority requirements and a brief description of the change management process thereafter. Our system enables a registered user to communicate in a chat room after providing valid credentials i.e. Username and Password. After successfully using the login, you will be allowed to chat. Users can upload and open files, as files are stored on the server.

. The program provides a GUI for text messaging. The message the sender sends is sent to the chat room where one or more users read it, depending on the number of users present in the Chat Room. The advantage of using this simple LAN messenger is that no internet

connection is active and there is a need for a server, where the IP address of all Users, Users, Passwords, files is stored.

## 2. Related Activities

LAN Messenger can help to communicate and transfer file anywhere on the network, without the need to connect to the Internet or a centralized server. These are some frequently LAN Messenger software for Windows are Softros LAN Messenger, Outlook Messenger, Akeni Messenger, BigAnt Messenger, BORGChat, BeeBeep, TSR, LanTalkPop Messenger, Bopup Messenger, and many others.

**2.1) Softros LAN Messenger** Softros LAN Messenger is the most popular LAN program running on all types of Windows, Android and Mac. This easy-to-use application has internal office communication and does not require a server. Softros LAN IM comes with many features such as sound alarms, offline messages, file transfers, remote desktop, and a specially designed display. This program is used to communicate with internal users of all incoming chat messages that will be archived and viewed whenever you want. All settings can be saved to another computer if necessary.

**2.1.1) Big Ant Messenger** BigAnt Messenger is a unique way of sending business messages. Includes VoIP, web conferencing, video chat, and many other institutions that serve as amazing solutions. BigAnt supports collaboration and brings efficiency to the company or organization, significantly reduces travel costs and increases office productivity by reducing distance barriers around the world. By using a new feature called "Send faster" you can stay in touch with your partner and transfer data at any time! The program is packed with features such as customized font, status, and notification options.

**Effect of LAN Messenger Deployment** The LAN Messenger is a messaging platform designed to be used within the local office network. This interactive tool for the Intranet is an ideal destination for Internet ambassadors for companies by 2020. The messages are completely secure, the conversation is confidential so the internal communication within the company or organization, as well as the relationship between internal staff, is approaching. it is enough to increase productivity and keep the balance positive. Outlook

Messenger is compatible with LAN, WAN, VPN, terminal Services, and Sub-Network and works across Windows using IP protocol.

**2.2) Akeni LAN Storage** LAN A unique IM system designed for your LAN. It is easy to set up and does not require a dedicated server or Internet connection. Rich customer support chat, notification, message logs, rich rich text editor, typewriter, conference, and file transfers - these are just some of the features that bring the best out of Akane when it comes to the flexibility of both peers. communication, as long as the network remains active. No viewing allowed! It's completely safe and safe to use and you won't have to worry about the outers.

**2.3) Lan Talk NET** LanTalk NET is an affordable LAN messaging tool. No server and no configuration at all! If you want to set up IM within your company, you should go to LanTalk NET XP. This is a great position for winpopup and other unique features integrated. Since time is important for everyone around you, this software allows you to set the time when the message should be sent. It can be loud and tangible, including virtual lighting at the bottom of your keyboard! Instead of convening hundreds of people by making phone calls, any manager can inform all employees in one "flash," by simply pressing a button.

**2.4) TSR LAN** TSR Messenger Messenger lets you chat with friends or family. Features:

- Instant messaging, instant meeting requests, current support, and instant communication with employers, colleagues, or managers.
- Each conversation is encrypted using an AES / independent key.

## 3. Methodology

The application is simple, it will be used within the LAN. The administrator will control everything, as it will have a complete clock on all user activity. An administrator reserves the right to add or remove users. When a user logs into this app their GUI will contain

User Enter a new user

- 3.1) View user
- 3.2) User Remove user
- 3.3) Refresh the chatroom
- 3.4) Delete files

A new user will sign up to this request by providing an IP address, Username, Password.

When a user is registered, he / she will gain access to this app and their GUI will contain it

Profile update chat room

- 3.5) Uploading file
- 3.6) Download File Download

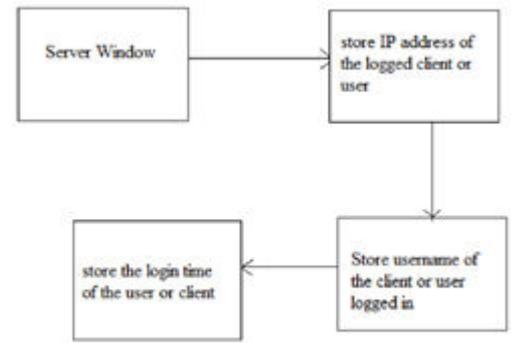


Fig-2: Block diagram of server side

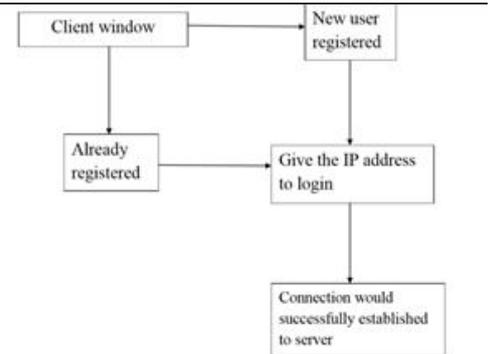
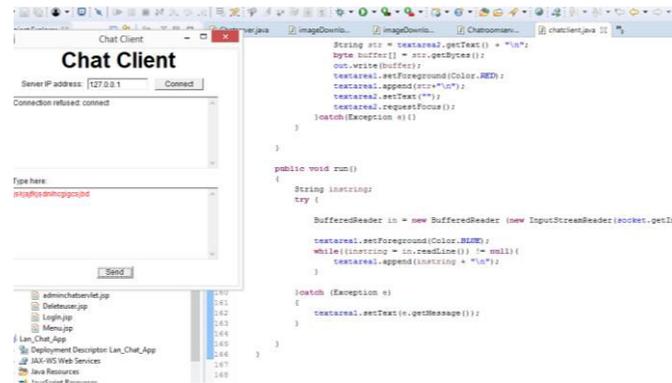


Fig-3: Block diagram of client side

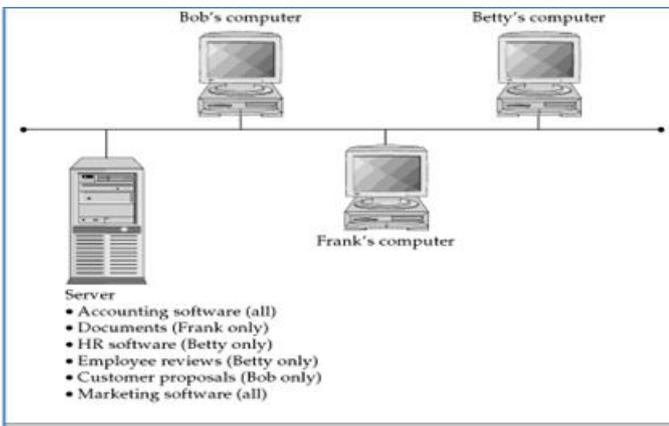


Fig-1: Diagram showing the connected users to a centralised server where the files are stored and users can access to it.



Enter New User Information

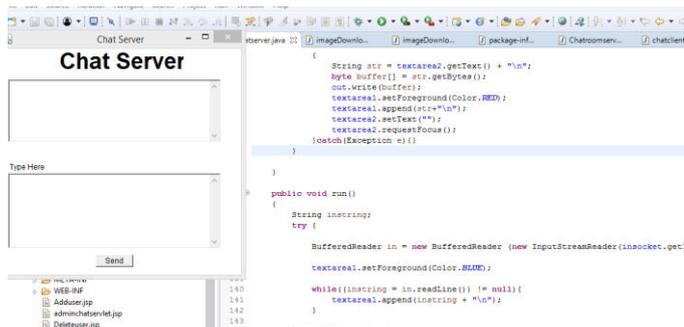
Name

Email

Loginid

Password

Type



## Admin Console

UserName

Password

Type admin

## User Console

UserName

Password

Type user

Fig-4: Login page

The user can log into the system to gain access and can log out or log out (logout / logoff) when access is no longer required. The registered user needs to provide their username and password to verify their account. After success

the logged-in user will allow chat and download and download files.



Fig-5: Upload/Download existing files

This will help you upload a specific file from your computer to a server that others can easily download. To upload a file the user must log in only when uploading the file. The file should not be bad otherwise the host has the right to delete it.

In this case, the user can download the specific file they want to create. For this to happen, the user must log in and go to the path where all the files are located and then have to click on that file and it

will improve the file saving message somewhere and in this way you can download and save the file.

LAN chat application is one of the easiest ways to chat with your friends via LAN / WLAN or through the AdHoc network. No internet connection required. The only thing that requires a server's IP address is that you will be able to communicate with other members via the LAN. It can help you talk to your friends even if you don't have internet connection as it is based on LAN. It connects different clients to each other and the client to the main server. So we have used the same concept here connecting two clients or clients and servers with each other and providing an IP address that we can talk to.

On the other hand, a file sharing program is also created when the user can upload the file or download the file. We provide a path to the directory where we store our file to the user who wants to download a specific file.

## 4. Future Enhancements

There is always a degree of improvement in using different and relevant modules. Like making it more secure by adding encryption / translation via text messages. A cipher message is encrypted using a DES algorithm keyless key and private key from one system to another. For example, user1 writes something to user2, details sent by user1 will be tightly typed and can only be defined by user2 if they have a valid key. Message breakdown on the receiver side using the private key used to encrypt the information on the sender's side. It will increase the security of the app as the messages will cease to be encrypted, no third party can interrupt the access between these users.

## 5. REFERENCES

- [1] Handel, M and Herbsleb, J.D (2002) What Is Chat to Do at Work?, ACM Publishers, New York.
- [2] Flynn, N., (2004), Rules for instant messaging: a business guide for managing policies, security and legal issues for secure IM communication, Amacom, USA.
- [3] LAN Messenger [http://en.wikipedia.org/wiki/LAN\\_messenger](http://en.wikipedia.org/wiki/LAN_messenger) (2012)

[4] Bonnie, A.N, Steve, W and Erin, B (2000) Communication and Outeraction: Sending an Instant Message to Action, ACM Publishers, New York.

[5] Chandra, S.Y and Kumar, S.S (2009) Introduction to Homeschooling / Servers, New Age International Publishers, New Delhi

[6] Brett D. McLaughlin, Gary Pollice and David West, analytical design of Head First Object-Oriented, Shroff / O'Reilly Publishers.

[7] Brian Goetz with Tim Peierls, Joshua Bloch, Joseph Bowbeer, David Holmes, and Doug Lea, Java Concurrency in Practice, Addison-Wesley Professional Publishers

[8] Customer / Server Configuration with Java and Corba ”by Robert Oriali and Dan Harkey