

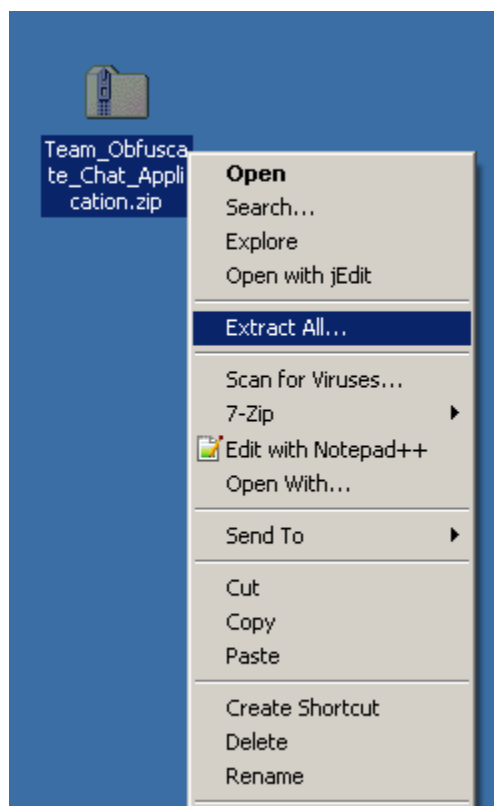
## 4 Chat Application Use

The chat application is comprised of two equally important components: the server and the client. The server is capable of being run on a remote machine or a client machine, and facilitates the connection of each client to one another. The client application is what the end user interacts with in order to send and receive chat messages. This section outlines the installation of both the client and server programs as and their use.

The chat application will be distributed in a zip file format. The compressed zip file will contain both the server and client executable files. These files can then be distributed to various machines on the network. The chat application requires Windows XP or later as well as Java version 1.7 to run.

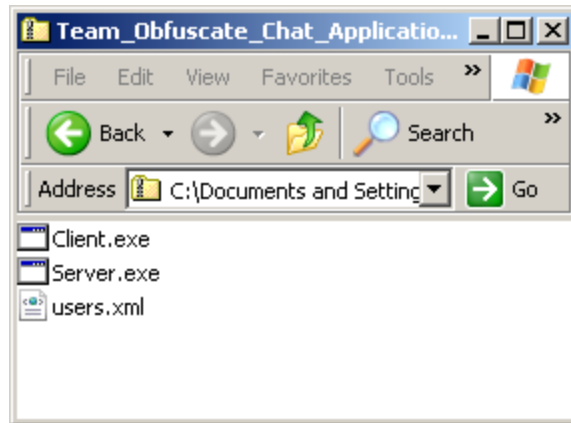
### 4.1 Server Install

The server is comprised of a single Windows executable file, so it must be run on computer that has the Windows operating system installed. The install will begin by first extracting the contents of the zip file to the directory of the user's choosing as shown in the image below.



**Figure 4.1:** Extracting the executables

After extraction, the user will be left with three files; *Server.exe* and *Client.exe* are for the server and client applications respectively. The *Users.xml* file contains the user names and passwords.



**Figure 4.2:** The files that comprise the chat application

## 4.2 Server Use

To run the server application, the executable must be run from the command line, as arguments must be specified. The user must first navigate to the directory in which the server executable file resides, and issue a command with the following syntax:

**Server.exe [PORT NUMBER]**

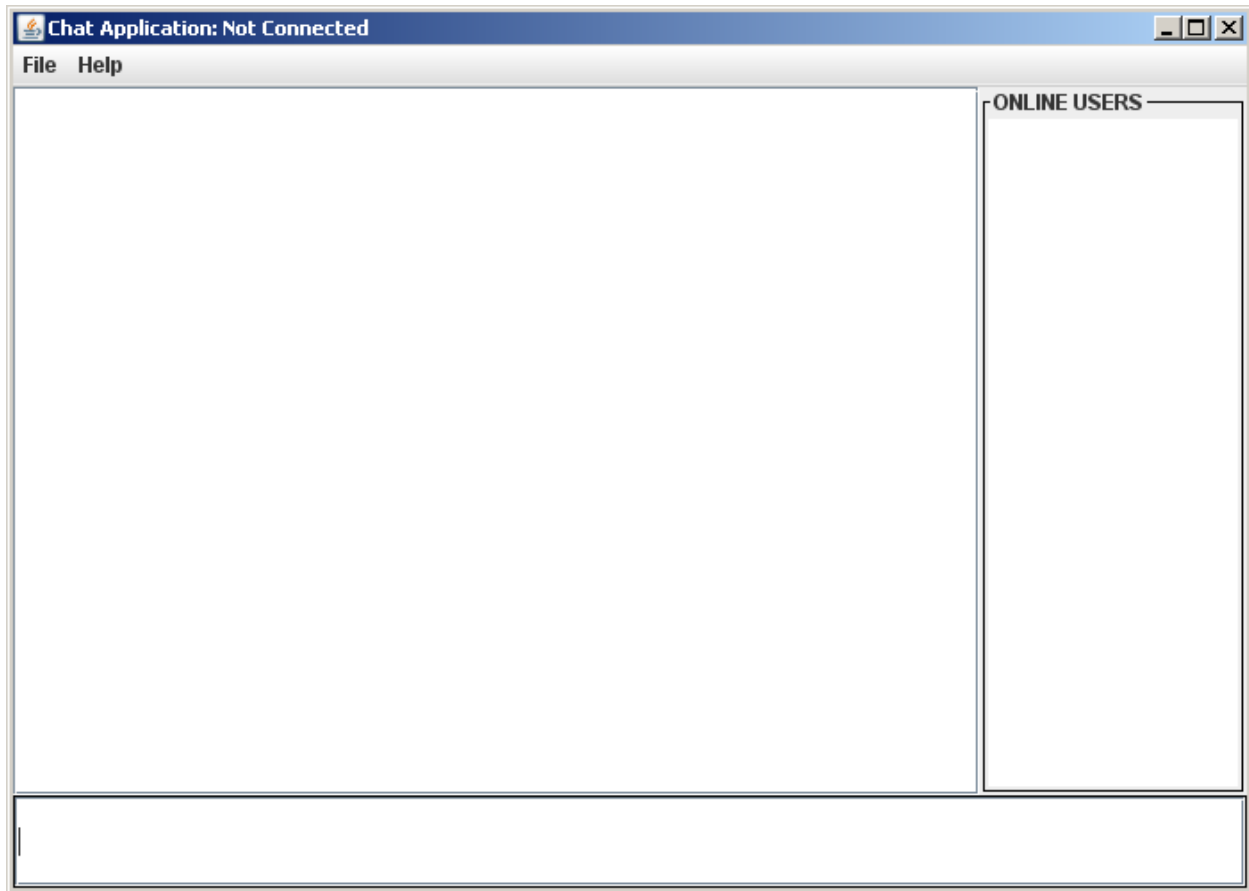
This starts the server, which begins listening for connections on the specified port. At this point the server application needs no more user interaction aside from quitting the application. The program can be closed by holding down the Ctrl key and pressing the 'C' key on the keyboard.

## 4.3 Client Install

The client is installed in the same way the server is installed. See section 4.1 for more details.

## 4.4 Client Use

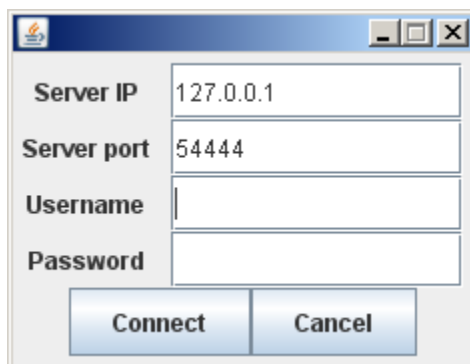
The client application is run by simply double-clicking the *Client.exe* file at which point the following GUI will present itself.



**Figure 4.3:** The Client's main GUI

#### 4.4.1 Connecting To a Server

From the main screen, the user can connect to a server by selecting *File->Connect* from the menu bar at the top of the main window. The user will be presented with the following dialog box.



**Figure 4.4:** The connect dialog

Within this dialog box, the user inputs the server IP or hostname, the server port, the user's username and password. Clicking the connect button will initiate a connection with the specified server and attempt to authenticate the user. If the server does not exist, is unresponsive, or the

username/password is incorrect, a dialog box will be shown, informing the user that an error has occurred.

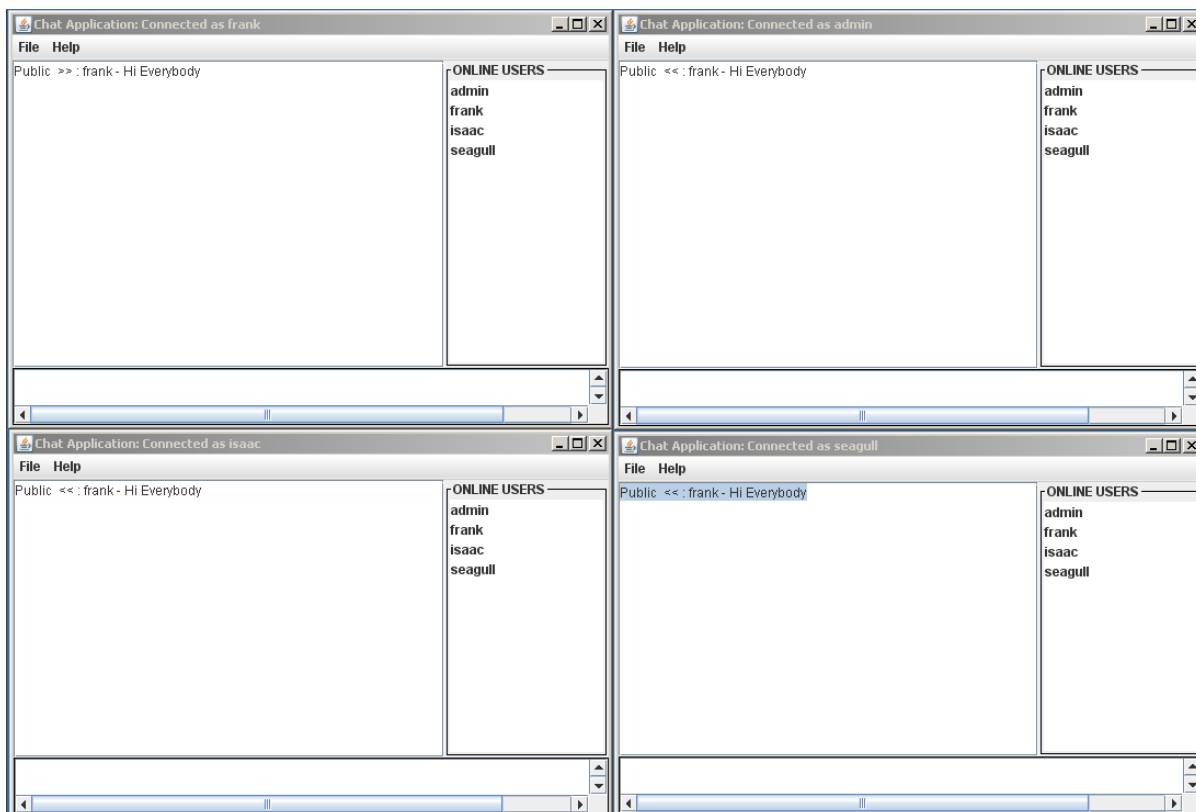


**Figure 4.5:** The error message

If the connection and authentication is successful, the main window will be updated with the current list of online users, at which point chatting can commence.

#### 4.4.2 Sending Messages

To send a global message to all logged in users, simply make sure no users are selected in the “ONLINE USERS” pane or alternatively you can select all the users in the “ONLINE USERS” pane. Then, simply type your message and hit the “Enter” or “Return” key.

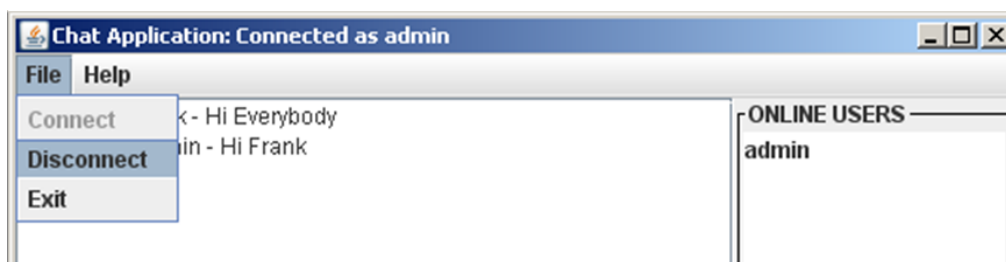


**Figure 4.6:** Global message sent by user “frank” by making sure no users are selected

For sending to only a select group of users, simply select only those user(s) from the “ONLINE USERS” pane and send the message.

#### 4.4.3 Logging out

To logout users can simply click on File > Disconnect from the menu bar if they wish to leave the chat client open, or they can simply logout by closing the client window by clicking on the “x” in the top right hand corner of the chat client.



**Figure 4.7:** Logging out by clicking File > Disconnect from the menubar

## 5 User List

1. **Username:** admin  
**Password:** R57H\$iwIN\$5o14z0
2. **Username:** maria  
**Password:** 1Can7f!n0pA55w0R6
3. **Username:** frank  
**Password:** 7Jkls\* @ll!6tFk32
4. **Username:** shamas  
**Password:** ab24LK!@ \$skl2248!
5. **Username:** mark  
**Password:** yYm@8RslK#@l2!q23
6. **Username:** oren  
**Password:** h@cK1n6i\$n0t6o0D2
7. **Username:** isaac  
**Password:** L!k3M3UcaM21\$ab5
8. **Username:** fahad  
**Password:** 7H3r31\$n0w@y!1ca2
9. **Username:** warnock  
**Password:** ohm@n!p1z#6o@war
10. **Username:** mir  
**Password:** f1na11y60tt0th3p
11. **Username:** dmitri  
**Password:** 1kN0w\$@n1skkW@9#1
12. **Username:** yang  
**Password:** sklE45#ww\$a\$mei3
13. **Username:** chaudhry  
**Password:** 2ndP@5\$w0rd1\$n0z
14. **Username:** cruz  
**Password:** tH1\$i5th3Secl@sQ
15. **Username:** boze  
**Password:** n0moR31can7!@8R#d

