Clientside code

package clientserver;

import javax.swing.\*;

import java.awt.FlowLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.io.\*;

import java.net.Socket;

public class ChatClient {

static JFrame chatWindow = new JFrame("Chat Application");

static JTextArea chatArea = new JTextArea(22, 40);

static JTextField textField = new JTextField(40);

static JLabel blankLabel = new JLabel(" ");

static JButton sendButton = new JButton("Send");

static BufferedReader in;

static PrintWriter out;

static JLabel nameLabel = new JLabel(" ");

ChatClient()

{

chatWindow.setLayout(new FlowLayout());

chatWindow.add(nameLabel);

chatWindow.add(new JScrollPane(chatArea));

chatWindow.add(blankLabel);

chatWindow.add(textField);

chatWindow.add(sendButton);

chatWindow.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

chatWindow.setSize(475, 500);

chatWindow.setVisible(true);

textField.setEditable(false);

chatArea.setEditable(false);

sendButton.addActionListener(new Listener());

textField.addActionListener(new Listener());

}

void startChat() throws Exception

{

String ipAddress = JOptionPane.showInputDialog(

chatWindow,

"Enter IP Address:",

"IP Address Required!!",

JOptionPane.PLAIN\_MESSAGE);

Socket soc = new Socket(ipAddress,9806);

in = new BufferedReader(new InputStreamReader(soc.getInputStream()));

out = new PrintWriter(soc.getOutputStream(), true);

while (true)

{

String str = in.readLine();

if (str.equals("NAMEREQUIRED"))

{

String name = JOptionPane.showInputDialog(

chatWindow,

"Enter a unique name:",

"Name Required!!",

JOptionPane.PLAIN\_MESSAGE);

out.println(name);

}

else if(str.equals("NAMEALREADYEXISTS"))

{

String name = JOptionPane.showInputDialog(

chatWindow,

"Enter another name:",

"Name Already Exits!!",

JOptionPane.WARNING\_MESSAGE);

out.println(name);

// soc.close();

}

else if (str.startsWith("NAMEACCEPTED"))

{

textField.setEditable(true);

nameLabel.setText("You are logged in as: "+str.substring(12));

// soc.close();

}

else

{

chatArea.append(str + "\n");

// soc.close();

}

}

}

public static void main(String[] args) throws Exception {

// TODO Auto-generated method stub

ChatClient client = new ChatClient();

client.startChat();

// out.flush();

// in.close();

}

}

class Listener implements ActionListener

{

@Override

public void actionPerformed(ActionEvent e) {

// TODO Auto-generated method stub

ChatClient.out.println(ChatClient.textField.getText());

ChatClient.textField.setText("");

}

}