附录：

Code for client：

//登录界面自己设计的

import javax.swing.\*;

import java.awt.\*;

import javax.swing.border.\*;

import java.awt.event.\*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.io.\*;

import java.net.Socket;

import java.net.UnknownHostException;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

import java.net.\*;

class index

{

public static void main(String args[])

{

new WindowBox();//登陆界面

}

}

class WindowBox extends JFrame

{

Box baseBox,boxV1,boxV2,boxV3;

JTextField userText = new JTextField("",16);

JPasswordField pwdText = new JPasswordField(16);

JButton dengButton = new JButton(" enter ");

JButton zhuce = new JButton(" log in ");

WindowBox()

{

boxV1=Box.createVerticalBox();

boxV1.add(new JLabel("userid"));

boxV1.add(Box.createVerticalStrut(8));

boxV1.add(new JLabel("password"));

boxV1.add(Box.createVerticalStrut(8));

boxV2=Box.createVerticalBox();

boxV2.add(userText);

boxV2.add(Box.createVerticalStrut(8));

boxV2.add(pwdText);

boxV2.add(Box.createVerticalStrut(8));

boxV3=Box.createVerticalBox();

boxV3.add(dengButton);

boxV3.add(zhuce);

baseBox=Box.createHorizontalBox();

baseBox.add(boxV1);

baseBox.add(Box.createHorizontalStrut(10));

baseBox.add(boxV2);

baseBox.add(boxV3);

setLayout(new FlowLayout());

add(baseBox);

validate();

dengButton.addActionListener( new ActionListener(){

public void actionPerformed(ActionEvent e) {

String userid = userText.getText();

char[] userpwd = pwdText.getPassword();

denglu(userid,userpwd);

}

});

zhuce.addActionListener( new ActionListener(){

public void actionPerformed(ActionEvent e) {

//System.out.println("hello");

String userid = userText.getText();

char[] userpwd = pwdText.getPassword();

logimg(userid,userpwd);

}

});

setBounds(80,80,400,200);

setVisible(true);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

}

PrintWriter pw=null;

BufferedReader br=null;

//JFrame frame;

public void denglu(String id,char[] pwd)

{

String stpwd = new String(pwd);

String str;

if(id.equals("") || stpwd.equals(""))

{

JOptionPane.showMessageDialog(this,"\'id\' and \'password\' must not null","imformation error",JOptionPane.YES\_NO\_OPTION);

return;

}

str="%login%"+":"+id+":"+stpwd;

try

{

Socket s = new Socket("127.0.0.1",8989);

pw=new PrintWriter(s.getOutputStream());

pw.println(str);

pw.flush();//发送账号密码

br=new BufferedReader(new InputStreamReader(s.getInputStream()));//接收回送的信息

String getimf=br.readLine();

if(getimf.indexOf("%true%")==0)

{

//JOptionPane.showMessageDialog(this,"great","imformation",JOptionPane.YES\_NO\_OPTION);

new ShowFriends(s,getimf,pw,br);

dispose();

return;

}

JOptionPane.showMessageDialog(this,"\'id\' or \'password\' is not good","enter error",JOptionPane.YES\_NO\_OPTION);

}

catch(UnknownHostException ee)

{ee.printStackTrace();}

catch(IOException eee)

{eee.printStackTrace();}

System.out.println(id+" "+stpwd);

}

public void logimg(String id,char[] pwd)

{

String stpwd = new String(pwd);

System.out.println(id+" "+stpwd);

}

}

class Talking extends JFrame

{

JTextArea ta;

JLabel label;

private PrintWriter pw;

String old;

String yonghuming;

private String name;

private String duixiang;

public Talking(PrintWriter p1w,String str,String aa,String yonghu,String old)

{

this.pw=p1w;

this.old=old;

this.yonghuming=yonghu;

this.name=str;

this.duixiang=aa;

JPanel jp=new JPanel(new GridLayout(2,1));

label=new JLabel("显示内容");

jp.add(label);//把label加入了panel面板

JPanel jp1=new JPanel(new GridLayout(2,1));

ta=new JTextArea(3,6);//new一个多行输入框，指定 行数和列数分别为3,6

jp1.add(ta);

JPanel jp2=new JPanel(new FlowLayout());

JButton but1=new JButton("发送");

JButton but2=new JButton("清除");

JButton but3=new JButton("清空");

jp2.add(but1);

jp2.add(but2);

jp2.add(but3);

jp1.add(jp2);

jp.add(jp1);

but1.addActionListener( new ActionListener(){

public void actionPerformed(ActionEvent e) {

try

{

pw.println("%send%"+duixiang+":"+name+":"+ta.getText()+":"+yonghuming);

BufferedReader br1=new BufferedReader(new StringReader(label.getText()));

String str1=br1.readLine();//读取第一行

label.setText("<html>"+name+":"+ta.getText()+"<br>"+str1+"</html>");

pw.flush();

ta.setText("");

}

catch(IOException ee)

{System.out.println(ee);}

//System.out.println("hello");

}

});

but2.addActionListener( new ActionListener(){

public void actionPerformed(ActionEvent e) {

System.out.println("goodbye");

ta.setText("");

}

});

but3.addActionListener( new ActionListener(){

public void actionPerformed(ActionEvent e) {

label.setText("");

}

});

setContentPane(jp);

setSize(500, 600);

setTitle("正在与"+aa+"聊天");

setVisible(true);

setLab(old);

//setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

}

public void setLab(String str){

try{

BufferedReader br1=new BufferedReader(new StringReader(label.getText()));

String str1=br1.readLine();//读取第一行

label.setText("<html>"+str+"<br>"+str1+"</html>");

}

catch(IOException ee){System.out.println(ee);}

}

public void setVis(){

setVisible(true);

}

}

class ShowFriends implements ActionListener

{

private Socket s;

String str=null;

String[] inf=new String[5];

JFrame frame;

JButton[] button ;

JPanel panel1,panel2;

static int i=0;

PrintWriter pw=null;

BufferedReader br=null;

public ShowFriends(Socket s,String str,PrintWriter pw,BufferedReader br)

{

this.s=s;

this.str=str;

inf=str.split(":");

this.pw=pw;

this.br=br;

panel1=new JPanel();

panel2=new JPanel();

String[] o=inf[4].split(",");

frame=new JFrame(inf[3]+"<"+inf[1]+"> please select a friend to chart");

button =new JButton[o.length];

for(int i=0;i<o.length;i++)

{

button[i]=new JButton(o[i]);

button[i].setBackground(Color.WHITE);

button[i].addActionListener(this);

panel2.add(button[i],BorderLayout.CENTER);

}

frame.add(panel1,BorderLayout.NORTH);

frame.add(panel2,BorderLayout.CENTER);

WriteWordThread one;

one = new WriteWordThread("haha",1);

one.start();

frame.setVisible(true);

frame.setLocation(100,100);

frame.setSize(500,200);

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

}

String al=null;

String old =null;

private String[] fr=new String[100];

//private ChatFrame[] obj=new ChatFrame[100];

private Talking[] obj=new Talking[100];

public void actionPerformed(ActionEvent e)

{

JButton button=(JButton)e.getSource();

al=button.getText();

for(int j=0;j<i;j++)

{

if(al.equals(fr[j])){

obj[j].setVis();

return;

}

}

//ChatFrame cf=new ChatFrame(pw,br,inf[3],al,inf[1],old);

Talking cf=new Talking(pw,inf[3],al,inf[1],old);

obj[i]=cf;

fr[i]=al;

i++;

button.setBackground(Color.WHITE);

old=null;

System.out.println("ok");

}

class WriteWordThread extends Thread

{

String abs = null;

int b = 0;

WriteWordThread(String s,int b)

{

this.abs = s;

this.b = b;

}

public void run()

{

loop:

while(true)

{

try

{

str=br.readLine();

if(str!=null)

{

String str1=str.split("%receive%")[1];

String[] msm=new String[3];

msm=str1.split(":");

for(int j=0;j<i;j++)

{

if(msm[2].equals(fr[j]))

{

obj[j].setLab(msm[0]+":"+msm[1]+"\n");

obj[j].setVis();

continue loop;

}

}

for(int n=0;n<button.length;n++)

{

if(button[n].getText().equals(msm[2]))

{

button[n].setBackground(Color.BLUE);break;

}

}

old=msm[0]+":"+msm[1]+"\n";

}

}

catch(IOException eeee)

{

eeee.printStackTrace();

}

}

}

}

}

/////////////////////////////////////////////////////////////////////////////

/\* 自己设计的类

class ShowFriends implements ActionListener

{

private Socket s;

String str=null;

String[] inf=new String[5];

JFrame frame;

JButton[] button ;

JPanel panel1,panel2;

public ShowFriends(Socket s,String str)

{

this.s=s;

this.str=str;

inf=str.split(":");

panel1=new JPanel();

panel2=new JPanel();

String[] o=inf[4].split(",");

frame=new JFrame(inf[3]+"<"+inf[1]+">");

button =new JButton[o.length];

for(int i=0;i<o.length;i++)

{

button[i]=new JButton(o[i]);

button[i].setBackground(Color.WHITE);

button[i].addActionListener(this);

panel2.add(button[i],BorderLayout.CENTER);

}

frame.add(panel1,BorderLayout.NORTH);

frame.add(panel2,BorderLayout.CENTER);

frame.setVisible(true);

frame.setLocation(100,100);

frame.setSize(150,400);

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

}

public void actionPerformed(ActionEvent e)

{

System.out.println("ok");

}

}\*/

///////////////////////////////////////////////////////////////////////

//////////////////////////////////////////////////////////////////////////

/////////////////////////////////////////////////////////////////////////////

Code for server：

/\*\*/

import java.net.\*;

import java.io.\*;

import java.util.\*;

interface DAOloginn

{

public String getLogin(String s);

}

class server

{

public static void main(String[] args)

{

new beginning();

//System.out.println("hello world");

}

}

class beginning implements DAOloginn{

private ServerSocket ss=null;

private String[] zhanghao;

private Socket[] sockets;

private static int i=0;

public beginning() {

try

{

ss=new ServerSocket(8989);

// hs=new HashSet();

zhanghao=new String[100];

sockets=new Socket[100];

while(true)

{

Socket s;

try {

s = ss.accept();

new MyThread(s).start();//xian cheng kai shi

}

catch (IOException e){e.printStackTrace();}

}

}

catch (IOException e) {

e.printStackTrace();

}

}

public String getLogin(String s) //diao yong jie kou

{

FileInputStream fis=null;

BufferedReader br=null;

InputStreamReader isr=null;

try {

String[] sn=new String[3];

sn=s.split(":");

fis=new FileInputStream(sn[1]+".dat");

isr=new InputStreamReader(fis);

Properties pro=new Properties();

pro.load(isr);

String s1=pro.getProperty("id");

String s2=pro.getProperty("mima");

String s3=pro.getProperty("name");

String s4=pro.getProperty("haoyou");

if(sn[1].equals(s1) && sn[2].equals(s2)){

return "%true%"+":"+s1+":"+s2+":"+s3+":"+s4;

}

} catch (IOException e) {

e.printStackTrace();

}

finally{

if(fis!=null){

try {

fis.close();

} catch (IOException e) {

e.printStackTrace();

}

}

}

return "false";

}

class MyThread extends Thread{

Socket s=null;

PrintWriter pw=null;

BufferedReader br=null;

public MyThread(Socket s){

super();

this.s=s;

}

public void run(){

String str=null;

try {

br=new BufferedReader(new InputStreamReader(s.getInputStream()));

pw = new PrintWriter(s.getOutputStream());

while(true){

str=br.readLine();

if(str!=null){

if(str.indexOf("%login%")==0)//deng lu xin xi yanzheng

{

DAOloginn ld=new beginning();

String s2=null;

s2=ld.getLogin(str);

zhanghao[i]=str.split(":")[1];

sockets[i]=s;

i++;

pw.println(s2);

pw.flush();

}

if(str.indexOf("%send%")==0)//fa song xinxi

{

String s=str.split("%send%")[1];

String[] sms=s.split(":");//get the imformation

for(int j=0;j<i;j++)

{

if(sms[0].equals(zhanghao[j]))

{

try

{

PrintWriter pw=new PrintWriter(sockets[j].getOutputStream());

pw.println("%receive%"+sms[1]+":"+sms[2]+":"+sms[3]);// send imformation

pw.flush();

}

catch(IOException e){e.printStackTrace();}

}

}

}

}

else{

continue;

}

}

}

catch (Exception e)

{

e.printStackTrace();

}

}

}

}

/\*

class CheckImformation implements DAOloginn{

public String getLogin(String s)

{

FileInputStream fis=null;

BufferedReader br=null;

InputStreamReader isr=null;

try {

String[] sn=new String[3];

sn=s.split(":");

fis=new FileInputStream(sn[1]+".dat");

isr=new InputStreamReader(fis);

Properties pro=new Properties();

pro.load(isr);

String s1=pro.getProperty("id");

String s2=pro.getProperty("mima");

String s3=pro.getProperty("name");

String s4=pro.getProperty("haoyou");

if(sn[1].equals(s1) && sn[2].equals(s2)){

return "%true%"+":"+s1+":"+s2+":"+s3+":"+s4;

}

} catch (IOException e) {

e.printStackTrace();

}

finally{

if(fis!=null){

try {

fis.close();

} catch (IOException e) {

e.printStackTrace();

}

}

}

return "false";

}

}

\*/

执行结果：





