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package chatroom;

import java.awt.BorderLayout;

import java.awt.FlowLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

import java.awt.image.BufferedImage;

import java.io.DataInputStream;

import java.io.DataOutputStream;

import java.io.IOException;

import java.net.Socket;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JPanel;

import javax.swing.JScrollPane;

import javax.swing.JTextArea;

import javax.swing.JTextField;

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public class client extends JFrame implements ActionListener{

private JButton send,clear,exit,login,logout,Connect;

private JPanel p\_login,p\_chat,p\_connect, Info;

private JTextField nick,nick1,message,IP;

private JTextArea msg,online;

private Socket client;

private ThreadClien dataStream;

private DataOutputStream dos;

private DataInputStream dis;

private BufferedImage ImageToken;

public client (){

super("Chat chit : client");

setDefaultCloseOperation(JFrame.DO\_NOTHING\_ON\_CLOSE);

this.addWindowListener(new WindowAdapter(){

public void windowClosing(WindowEvent e){

exit();

}

});

setSize(600, 400);

addItem();

setVisible(true);

}

//-----[ Tạo giao diện ]--------//

private void addItem() {

setLayout(new BorderLayout());

exit = new JButton("Thoát");

exit.addActionListener(this);

send = new JButton("Gởi");

send.addActionListener(this);

clear = new JButton("Xóa");

clear.addActionListener(this);

login= new JButton("Đăng nhập");

login.addActionListener(this);

logout= new JButton("Thoát");

logout.addActionListener(this);

p\_chat = new JPanel();

p\_chat.setLayout(new BorderLayout());

JPanel p1 = new JPanel();

p1.setLayout(new FlowLayout(FlowLayout.LEFT));

nick = new JTextField(20);

p1.add(new JLabel("Níck chát : "));

p1.add(nick);

p1.add(exit);

JPanel p2 = new JPanel();

p2.setLayout(new BorderLayout());

JPanel p22 = new JPanel();

p22.setLayout(new FlowLayout(FlowLayout.CENTER));

p22.add(new JLabel("Danh sách online"));

p2.add(p22,BorderLayout.NORTH);

online = new JTextArea(10,10);

online.setEditable(false);

p2.add(new JScrollPane(online),BorderLayout.CENTER);

p2.add(new JLabel(" "),BorderLayout.SOUTH);

p2.add(new JLabel(" "),BorderLayout.EAST);

p2.add(new JLabel(" "),BorderLayout.WEST);

msg = new JTextArea(10,20);

msg.setEditable(false);

JPanel p3 = new JPanel();

p3.setLayout(new FlowLayout(FlowLayout.LEFT));

p3.add(new JLabel("Tin nhắn"));

message = new JTextField(30);

p3.add(message);

p3.add(send);

p3.add(clear);

p\_chat.add(new JScrollPane(msg),BorderLayout.CENTER);

p\_chat.add(p1,BorderLayout.NORTH);

p\_chat.add(p2,BorderLayout.EAST);

p\_chat.add(p3,BorderLayout.SOUTH);

p\_chat.add(new JLabel(" "),BorderLayout.WEST);

p\_chat.setVisible(false);

add(p\_chat,BorderLayout.SOUTH);

//-------------------------

p\_login = new JPanel();

p\_login.setLayout(new FlowLayout(FlowLayout.CENTER));

p\_login.add(new JLabel("Nick chát : "));

nick1=new JTextField(20);

p\_login.add(nick1);

p\_login.add(login);

p\_login.add(logout);

p\_login.setVisible(false);

add(p\_login,BorderLayout.NORTH);

//----------Connect-----------//

p\_connect = new JPanel();

p\_connect.setLayout(new FlowLayout(FlowLayout.CENTER));

p\_connect.add(new JLabel("IP Sever : "));

IP = new JTextField(20);

p\_connect.add(IP);

Connect = new JButton("Kết Nối");

Connect.addActionListener(this);

p\_connect.add(Connect);

add(p\_connect,BorderLayout.LINE\_START);

//---------------

Info = new JPanel();

Info.setLayout(new FlowLayout(FlowLayout.CENTER));

JTextArea T\_info = new JTextArea();

String a = "\tTrường Đại Học Công Nghiệp tphcm\t\n" + "Trương Văn Minh"

+ "\t 15037041\n" + "Dương Mạnh Hùng 15044091";

T\_info.setText(a);

Info.add(T\_info);

Info.setVisible(false);

add(Info, BorderLayout.CENTER);

}

//---------[ Socket ]-----------//

private void go(String IP) {

try {

client = new Socket(IP,2207);

dos=new DataOutputStream(client.getOutputStream());

dis=new DataInputStream(client.getInputStream());

//client.close();

} catch (Exception e) {

JOptionPane.showMessageDialog(this,"Kết nối thât bại, xin hãy kiểm tra lại ip.","Message Dialog",JOptionPane.WARNING\_MESSAGE);

System.exit(0);

}

}

public static void main(String[] args) {

new client();

}

private void sendMSG(String data){

try {

dos.writeUTF(data);

dos.flush();

} catch (IOException e) {

e.printStackTrace();

}

}

private String getMSG(){

String data=null;

try {

data=dis.readUTF();

} catch (IOException e) {

e.printStackTrace();

}

return data;

}

public void getMSG(String msg1, String msg2){

int stt = Integer.parseInt(msg1);

switch (stt) {

// tin nhắn của những người khác

case 3:

this.msg.append(msg2);

break;

// update danh sách online

case 4:

this.online.setText(msg2);

break;

// server đóng cửa

case 5:

dataStream.stopThread();

exit();

break;

// bổ sung sau

default:

break;

}

}

//----------------------------------------------

private void checkSend(String msg){

if(msg.compareTo("\n")!=0){

this.msg.append("Tôi : "+msg);

sendMSG("1");

sendMSG(msg);

}

}

private boolean checkLogin(String nick){

if(nick.compareTo("")==0)

return false;

else if(nick.compareTo("0")==0){

return false;

}

else{

sendMSG(nick);

int sst = Integer.parseInt(getMSG());

if(sst==0)

return false;

else return true;

}

}

private void exit(){

try {

sendMSG("0");

dos.close();

dis.close();

client.close();

} catch (IOException e1) {

e1.printStackTrace();

}

System.exit(0);

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==exit){

dataStream.stopThread();

exit();

}

else if(e.getSource()==clear){

message.setText("");

}

else if(e.getSource()==send){

checkSend(message.getText()+"\n");

message.setText("");

}

else if(e.getSource()==login){

if(checkLogin(nick1.getText())){

p\_chat.setVisible(true);

p\_login.setVisible(false);

Info.setVisible(false);

nick.setText(nick1.getText());

nick.setEditable(false);

this.setTitle(nick1.getText());

msg.append("Đã đăng nhập thành công\n");

dataStream = new ThreadClien(this, this.dis);

}

else{JOptionPane.showMessageDialog(this,"Đã tồn tại níck này trong room, bạn vui lòng nhập lại.","Message Dialog",JOptionPane.WARNING\_MESSAGE);}

}

else if(e.getSource() == Connect){

go(IP.getText());

p\_login.setVisible(true);

Info.setVisible(true);

p\_connect.setVisible(false);

}

else if(e.getSource()==logout){

exit();

}

}

}