package tugasprakw7;

import java.util.\*;

public class TugasPrakW7 {

public static void main(String[] args) {

Frame f= new Frame();

f.setVisible(true);

}

}

package tugasprakw7;

import java.util.\*;

import javax.swing.JOptionPane;

public class Frame extends javax.swing.JFrame {

ArrayList<user> usr= new ArrayList<>();

user tempuser;

boolean addUsr= true;

public Frame() {

initComponents();

}

private void addUserActionPerformed(java.awt.event.ActionEvent evt) {

tempuser= new user();

tempuser.setNama(inputUser.getText());

for(int i= 0;i<usr.size();i++) {

if(tempuser.getNama().equals(usr.get(i).getNama())) {

addUsr= false;

JOptionPane.showMessageDialog(null, "Username already used!");

}

}

if(addUsr==true) {

usr.add(tempuser);

panelChat1.modelUser.addElement(tempuser);

panelChat2.modelUser.addElement(tempuser);

for(user ob: usr) {

if(!ob.equals(tempuser)) {

ob.getnoFriend().add(tempuser);

}

}

for(int i= 0;i<usr.size()-1;i++) {

if(!usr.get(i).equals(tempuser)) {

tempuser.getnoFriend().add(usr.get(i));

}

}

}

addUsr= true;

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Frame().setVisible(true);

}

});

}

}

package tugasprakw7;

import java.util.\*;

import javax.swing.DefaultComboBoxModel;

import javax.swing.DefaultListModel;

public class PanelChat extends javax.swing.JPanel {

DefaultListModel<user> modelUser;

DefaultListModel<user> modelAddFriend;

DefaultComboBoxModel<user> modelPending;

DefaultComboBoxModel<user> modelReceiver;

public PanelChat() {

initComponents();

modelUser= new DefaultListModel<>();

modelAddFriend= new DefaultListModel<>();

modelPending= new DefaultComboBoxModel<>();

modelReceiver= new DefaultComboBoxModel<>();

listUser.setModel(modelUser);

listAddFriend.setModel(modelAddFriend);

listPendingReq.setModel(modelPending);

listReceiver.setModel(modelReceiver);

}

private void listUserValueChanged(javax.swing.event.ListSelectionEvent evt) {

labelUser.setText(listUser.getSelectedValue().toString());

modelAddFriend.removeAllElements();

modelPending.removeAllElements();

modelReceiver.removeAllElements();

user active = (user)(listUser.getSelectedValue());

for (int i = 0; i<active.getnoFriend().size();i++) {

modelAddFriend.addElement((user)active.getnoFriend().get(i));

}

for (Object ob: active.getIncoming()) {

modelPending.addElement((user)ob);

}

for (Object ob: active.getFriend()) {

modelReceiver.addElement((user)ob);

}

}

private void addFriendActionPerformed(java.awt.event.ActionEvent evt) {

user yangAdd= (user)listUser.getSelectedValue();

user yangDiAdd= (user)listAddFriend.getSelectedValue();

yangAdd.getOutgoing().add(yangDiAdd);

yangDiAdd.getIncoming().add(yangAdd);

yangAdd.getnoFriend().remove(yangDiAdd);

yangDiAdd.getnoFriend().remove(yangAdd);

modelAddFriend.removeAllElements();

for (int i = 0;i<yangAdd.getnoFriend().size();i++) {

modelAddFriend.addElement((user)yangAdd.getnoFriend().get(i));

}

}

private void acceptFriendActionPerformed(java.awt.event.ActionEvent evt) {

user yangAcc = (user)listUser.getSelectedValue();

user yangDiAcc = (user)listPendingReq.getSelectedItem();

yangAcc.getIncoming().remove(yangDiAcc);

yangAcc.getFriend().add(yangDiAcc);

yangDiAcc.getOutgoing().remove(yangAcc);

yangDiAcc.getFriend().add(yangAcc);

modelPending.removeAllElements();

for (Object ob: yangAcc.getIncoming()) {

modelPending.addElement((user)ob);

}

modelReceiver.removeAllElements();

for (Object ob: yangAcc.getFriend()) {

modelReceiver.addElement((user)ob);

}

}

private void ignoreFriendActionPerformed(java.awt.event.ActionEvent evt) {

user yangIgnore= (user)listUser.getSelectedValue();

user yangDiIgnore= (user)listPendingReq.getSelectedItem();

yangIgnore.getIncoming().remove(yangDiIgnore);

yangIgnore.getnoFriend().add(yangDiIgnore);

yangDiIgnore.getOutgoing().remove(yangIgnore);

yangDiIgnore.getnoFriend().add(yangIgnore);

modelPending.removeAllElements();

for (Object ob: yangIgnore.getIncoming()) {

modelPending.addElement((user)ob);

}

modelReceiver.removeAllElements();

for (Object ob: yangDiIgnore.getFriend()) {

modelReceiver.addElement((user)ob);

}

}

}

package tugasprakw7;

import java.util.\*;

public class user {

private String nama;

private ArrayList<user> friend;

private ArrayList<user> noFriend;

private ArrayList<user> incomingPending;

private ArrayList<user> outgoingPending;

user() {

friend= new ArrayList<>();

noFriend= new ArrayList<>();

incomingPending= new ArrayList<>();

outgoingPending= new ArrayList<>();

}

void setNama(String nama){this.nama= nama;}

void setFriend(ArrayList friend) {this.friend= friend;}

void setnoFriend(ArrayList noFriend) {this.noFriend= noFriend;}

void setIncoming(ArrayList incoming) {this.incomingPending= incomingPending;}

void setOutgoing(ArrayList outgoing) {this.outgoingPending= outgoingPending;}

String getNama() {return this.nama;}

ArrayList getFriend() {return this.friend;}

ArrayList getnoFriend() {return this.noFriend;}

ArrayList getIncoming() {return this.incomingPending;}

ArrayList getOutgoing() {return this.outgoingPending;}

@Override

public String toString() {

return this.nama;

}

}