**Client Code**

/\*

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\* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template

\*/

package com.mycompany.chatapp;

import java.io.\*;

import java.net.\*;

/\*\*

\*

\* @author Ashutosh

\*/

public class client extends javax.swing.JFrame {

/\*\*

\* Creates new form client

\*/

static Socket s;

static DataInputStream dis;

static DataOutputStream dos;

public client() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jScrollPane1 = new javax.swing.JScrollPane();

puttxt = new javax.swing.JTextArea();

gettxt = new javax.swing.JTextField();

btsend = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

puttxt.setColumns(20);

puttxt.setRows(5);

jScrollPane1.setViewportView(puttxt);

gettxt.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

gettxtActionPerformed(evt);

}

});

btsend.setText("Send");

btsend.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btsendActionPerformed(evt);

}

});

jLabel1.setText("Client");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(28, 28, 28)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addComponent(gettxt, javax.swing.GroupLayout.PREFERRED\_SIZE, 244, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(btsend))

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 342, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addGap(181, 181, 181)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(30, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(9, 9, 9)

.addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 173, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(gettxt, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btsend))

.addContainerGap(46, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

try

{

String msgout= "";

msgout=gettxt.getText().trim();

dos.writeUTF(msgout);

puttxt.append("\nClient:"+msgout);

}

catch(Exception e)

{}

}

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

// TODO add your handling code here:

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(client.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(client.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(client.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(client.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

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

public void run() {

new client().setVisible(true);

}

});

String msg= "";

try

{

s=new Socket("localhost",4567);

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

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

while(!msg.equals("exit"))

{

msg=dis.readUTF();

puttxt.append("\nServer:"+msg);

}

}

catch(IOException e)

{

System.out.println(e);

}

}

// Variables declaration - do not modify

private static javax.swing.JButton btsend;

private static javax.swing.JTextField gettxt;

private javax.swing.JLabel jLabel1;

private javax.swing.JScrollPane jScrollPane1;

private static javax.swing.JTextArea puttxt;

// End of variables declaration

}

**Server Code**

/\*

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\*/

package com.mycompany.chatapp;

import java.io.\*;

import java.net.\*;

/\*\*

\*

\* @author Ashutosh

\*/

public class server extends javax.swing.JFrame {

/\*\*

\* Creates new form server

\*/

static ServerSocket ss;

static Socket s;

static DataInputStream dis;

static DataOutputStream dos;

public server() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jButton2 = new javax.swing.JButton();

jScrollPane1 = new javax.swing.JScrollPane();

puttxt = new javax.swing.JTextArea();

gettxt = new javax.swing.JTextField();

btsend = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

jButton2.setText("jButton2");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

puttxt.setColumns(20);

puttxt.setRows(5);

jScrollPane1.setViewportView(puttxt);

gettxt.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

gettxtActionPerformed(evt);

}

});

btsend.setText("Send");

btsend.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btsendActionPerformed(evt);

}

});

jLabel1.setText("Server");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(28, 28, 28)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

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.addComponent(gettxt, javax.swing.GroupLayout.PREFERRED\_SIZE, 244, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(btsend))

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 342, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addGap(181, 181, 181)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(30, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(9, 9, 9)

.addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 173, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(gettxt, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btsend))

.addContainerGap(46, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

}

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

// TODO add your handling code here:

try

{

String msgout= "";

msgout=gettxt.getText().trim();

dos.writeUTF(msgout);

puttxt.append("\nServer:"+msgout);

}

catch(Exception e)

{}

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(server.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(server.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(server.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(server.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

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

public void run() {

new server().setVisible(true);

}

});

String msg= "";

try

{

ss=new ServerSocket(4567);

s=ss.accept();

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

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

while(!msg.equals("exit"))

{

msg=dis.readUTF();

puttxt.append("\nClient:"+msg);

}

}

catch(IOException e)

{

System.out.println(e);

}

}

// Variables declaration - do not modify

private static javax.swing.JButton btsend;

private static javax.swing.JTextField gettxt;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JScrollPane jScrollPane1;

private static javax.swing.JTextArea puttxt;

// End of variables declaration

}

