6/29/24, 8:57 PM chat.java

E:\chat.java

```
1
   package chatapp;
 2
 3
  import java.io.*;
4
   import java.util.*;
   import java.awt.*;
   import javax.swing.*;
6
7
   import java.awt.event.*;
8
   import java.text.*;
9
   import java.net.*;
   import javax.swing.border.*;
10
11
   public class Client implements ActionListener {
12
13
14
        JTextField text;
15
        static JPanel a1;
16
        static Box vertical = Box.createVerticalBox();
17
        static JFrame f = new JFrame();
18
        static DataOutputStream dout;
19
20
        public static JPanel formatLabel(String out) {
21
            JPanel panel = new JPanel();
            panel.setLayout(new BoxLayout(panel, BoxLayout.Y AXIS));
22
23
24
            JLabel output = new JLabel("<html>" + out + "</html>");
25
            output.setFont(new Font("Tahoma", Font.PLAIN, 16));
            output.setBackground(new Color(227, 250, 248));
26
27
            output.setOpaque(true);
28
            output.setBorder(new EmptyBorder(15, 15, 15, 50));
29
            panel.add(output);
30
            Calendar cal = Calendar.getInstance();
31
            SimpleDateFormat sdf = new SimpleDateFormat("HH:mm");
32
            JLabel time = new JLabel();
33
            time.setText(sdf.format(cal.getTime()));
34
            panel.add(time);
35
            return panel;
36
37
38
        public void actionPerformed(ActionEvent ae) {
39
            try {
                String out = text.getText();
40
41
                JPanel p2 = formatLabel(out);
42
                a1.setLayout(new BorderLayout());
43
                JPanel right = new JPanel(new BorderLayout());
44
                right.add(p2, BorderLayout.LINE_END);
45
                vertical.add(right);
                vertical.add(Box.createVerticalStrut(15));
46
47
                a1.add(vertical, BorderLayout.PAGE_START);
48
                dout.writeUTF(out);
49
                text.setText("");
50
                f.repaint();
                f.invalidate();
51
52
                f.validate();
53
            } catch (Exception e) {
54
                e.printStackTrace();
```

```
55
             }
 56
 57
         public static void main(String[] args) {
 58
 59
             new Client();
             try {
 60
                 //object of the class Socket
 61
                 Socket s = new Socket("127.0.0.1", 6001);
 62
                 DataInputStream din = new DataInputStream(s.getInputStream());
 63
                 dout = new DataOutputStream(s.getOutputStream());
 64
 65
                 while(true) {
                     a1.setLayout(new BorderLayout());
 66
 67
                     String msg = din.readUTF();
                      JPanel panel = formatLabel(msg);
 68
 69
                      JPanel left = new JPanel(new BorderLayout());
 70
                     left.add(panel, BorderLayout.LINE START);
 71
                     vertical.add(left);
 72
                     vertical.add(Box.createVerticalStrut(15));
                      a1.add(vertical, BorderLayout.PAGE START);
 73
                     f.validate();
 74
 75
                 }
 76
             } catch (Exception e) {
 77
                 e.printStackTrace();
 78
             }
 79
         }
 80
         Client() {
 81
 82
             f.setLayout(null);
 83
             JPanel p1 = new JPanel();
             p1.setBackground(new Color(37, 147, 211));
 84
 85
             p1.setBounds(0, 0, 450, 70);
 86
             p1.setLayout(null);
 87
             f.add(p1);
 88
             ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/3.png"));
 89
             Image i2 = i1.getImage().getScaledInstance(25, 25, Image.SCALE_DEFAULT);
 90
             ImageIcon i3 = new ImageIcon(i2);
             JLabel back = new JLabel(i3);
 91
 92
             back.setBounds(5, 20, 25, 25);
 93
             p1.add(back);
             back.addMouseListener(new MouseAdapter() {
 94
 95
                 public void mouseClicked(MouseEvent ae) {
 96
                     System.exit(0);
 97
                 }
 98
             });
 99
100
             ImageIcon i4 = new ImageIcon(ClassLoader.getSystemResource(""));
101
             Image i5 = i4.getImage().getScaledInstance(50, 50, Image.SCALE DEFAULT);
102
             ImageIcon i6 = new ImageIcon(i5);
103
             JLabel profile = new JLabel(i6);
104
             profile.setBounds(40, 10, 50, 50);
105
             p1.add(profile);
106
             ImageIcon i7 = new ImageIcon(ClassLoader.getSystemResource("images/video.png"));
107
108
             Image i8 = i7.getImage().getScaledInstance(30, 30, Image.SCALE_DEFAULT);
109
             ImageIcon i9 = new ImageIcon(i8);
110
             JLabel video = new JLabel(i9);
```

6/29/24, 8:57 PM

```
111
             video.setBounds(300, 20, 30, 30);
112
             p1.add(video);
113
             ImageIcon i10 = new ImageIcon(ClassLoader.getSystemResource("images/phone.png"));
114
115
             Image i11 = i10.getImage().getScaledInstance(35, 30, Image.SCALE DEFAULT);
             ImageIcon i12 = new ImageIcon(i11);
116
             JLabel phone = new JLabel(i12);
117
118
             phone.setBounds(360, 20, 35, 30);
119
             p1.add(phone);
120
121
             ImageIcon i13 = new ImageIcon(ClassLoader.getSystemResource("images/3icon.png"));
122
             Image i14 = i13.getImage().getScaledInstance(10, 25, Image.SCALE DEFAULT);
123
             ImageIcon i15 = new ImageIcon(i14);
             JLabel morevert = new JLabel(i15);
124
125
             morevert.setBounds(420, 20, 10, 25);
126
             p1.add(morevert);
127
128
             JLabel name = new JLabel("Me");
             name.setBounds(110, 15, 100, 18);
129
130
             name.setForeground(Color.WHITE);
131
             name.setFont(new Font("SAN SERIF", Font.BOLD, 18));
132
             p1.add(name);
133
134
             JLabel status = new JLabel("Active");
135
             status.setBounds(110, 35, 100, 18);
136
             status.setForeground(Color.WHITE);
137
             status.setFont(new Font("SAN_SERIF", Font.BOLD, 14));
138
             p1.add(status);
139
140
             a1 = new JPanel();
141
             a1.setBounds(5, 75, 440, 500);
142
             f.add(a1);
143
144
             text = new JTextField();
145
             text.setBounds(5, 575, 310, 40);
             text.setFont(new Font("SAN_SERIF", Font.PLAIN, 16));
146
147
             f.add(text);
148
149
             JButton send = new JButton("Send");
150
             send.setBounds(320, 575, 123, 40);
151
             send.setBackground(new Color(37, 147, 211));
152
             send.setForeground(Color.WHITE);
153
             send.addActionListener(this);
154
             send.setFont(new Font("SAN_SERIF", Font.PLAIN, 16));
155
             f.add(send);
156
157
             f.setSize(450, 700);
158
             f.setLocation(800, 50);
159
             f.setUndecorated(true);
             f.getContentPane().setBackground(Color.WHITE);
160
161
162
             f.setVisible(true);
163
         }
164 }
```