SocketServer.java

import java.awt.Color;

import java.awt.BorderLayout;

import java.awt.event.\*;

import javax.swing.\*;

import java.io.\*;

import java.net.\*;

class SocketServer extends JFrame

implements ActionListener {

JButton button;

JLabel label = new JLabel("Text received over socket:");

JPanel panel;

JTextArea textArea = new JTextArea();

ServerSocket server = null;

Socket client = null;

//Socket client2 = null;

BufferedReader in = null;

PrintWriter out = null;

BufferedReader in2 = null;

PrintWriter out2 = null;

String line;

Socket socket = null;

SocketServer(){ //Begin Constructor

button = new JButton("Click Me");

button.addActionListener(this);

panel = new JPanel();

panel.setLayout(new BorderLayout());

panel.setBackground(Color.white);

getContentPane().add(panel);

panel.add("North", label);

panel.add("Center", textArea);

panel.add("South", button);

} //End Constructor

public void actionPerformed(ActionEvent event) {

Object source = event.getSource();

if(source == button){

textArea.setText(line);

}

}

public void listenSocket(){

try{

server = new ServerSocket(4321);

} catch (IOException e) {

System.out.println("Could not listen on port 4321");

System.exit(-1);

}

try{

client = server.accept();

} catch (IOException e) {

System.out.println("Accept failed: 4321");

System.exit(-1);

}

try{

in = new BufferedReader(new InputStreamReader(client.getInputStream()));

out = new PrintWriter(client.getOutputStream(), true);

} catch (IOException e) {

System.out.println("Accept failed: 4321");

System.exit(-1);

}

while(true){

try{

line = in.readLine();

//Send data back to client

try{

socket = new Socket("192.168.18.86", 4440);

out2 = new PrintWriter(socket.getOutputStream(), true);

//in2 = new BufferedReader(new InputStreamReader(socket.getInputStream()));

//String line1 = in2.readLine();

out2.println(line);

out.println(line);

} catch (UnknownHostException e) {

System.out.println("Unknown host: kq6py.eng");

System.exit(1);

} catch (IOException e) {

System.out.println("No I/O ");

System.exit(1);

}

} catch (IOException e) {

System.out.println("Read failed");

System.exit(-1);

}

}

}

protected void finalize(){

//Clean up

try{

in.close();

out.close();

in2.close();

out2.close();

server.close();

} catch (IOException e) {

System.out.println("Could not close.");

System.exit(-1);

}

}

public static void main(String[] args){

SocketServer frame = new SocketServer();

frame.setTitle("Server Program");

WindowListener l = new WindowAdapter() {

public void windowClosing(WindowEvent e) {

System.exit(0);

}

};

frame.addWindowListener(l);

frame.pack();

frame.setVisible(true);

frame.listenSocket();

}

}