Class Client

java.lang.Object Client

```
public class Client
extends Object
```

The client will need to enter the server name and port to connect. The client will also select whether to communicate using TCP/IP or UDP.

Field Summary

Fields	
Modifier and Type	Field and Description
private int	bufSize
	the size of the buf for datagram packets
private ClientGUI	clientGUI
	the object to access the GUI for the client to update the current chat messages
private boolean	connection
	the client is currently connect
private BufferedReader	
	create a BufferedReader to read from the client
private int	longWait the time in milliseconds that the program waits to receive a
	message during UDP
private PrintWriter	out To Table 1
	the object to send messages to the TCP/IP server
private int	portUDP the client's unique port to good UDD messages
	the client's unique port to send UDP messages
private String	protocol Initialize the communication choice
primate Chrise	
private String	the name of the server the user inputed
	P

the time in milliseconds that the program waits for server to

respond during UDP

private Socket socketTCP

Initialize the client TCP/IP socket

private DatagramSocket socketUDP

Initialize the client UDP socket

Constructor Summary

Constructors

Constructor and Description

Client()

Constructor to start the GUI and wait to receive messages

Method Summary

stance Methods	Concrete Methods
	stance Methods

Modifier and Type	Method and Description		
void	closeSocket() Closes the current socket.		
void	connectToServer() This is called when the user submits the server information.		
void	disconnectFromServer() disconnect from the server, this is called when the user exits		
String	getProtocol() Get the current communication protocol being used		
private void	hault() Doesn't allow the client to do anything.		
static void	main(String[] args) Asks the Server to see a text file		
void	receiveMessages () Infinitely waits to receive a message using TCP/IP or UDP protocol		

void sendMessage()

Send a message using TCP/IP or UDP protocol

void setProtocol(String protocol)

Set the current communication protocol being used

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait

Field Detail

serverName

private String serverName

the name of the server the user inputed

portUDP

private int portUDP

the client's unique port to send UDP messages

socketTCP

private Socket socketTCP

Initialize the client TCP/IP socket

socketUDP

private DatagramSocket socketUDP

Initialize the client UDP socket

protocol

private String protocol

Initialize the communication choice

clientGUI

private ClientGUI clientGUI

the object to access the GUI for the client to update the current chat messages

connection

private boolean connection

the client is currently connect

out

private PrintWriter out

the object to send messages to the TCP/IP server

in

private BufferedReader in

create a BufferedReader to read from the client

shortWait

private final int shortWait

the time in milliseconds that the program waits for server to respond during UDP

See Also:

Constant Field Values

longWait

private final int longWait

the time in milliseconds that the program waits to receive a message during UDP

See Also:

Constant Field Values

bufSize

private final int bufSize

the size of the buf for datagram packets

See Also:

Constant Field Values

Constructor Detail

Client

public Client()

Constructor to start the GUI and wait to receive messages

Method Detail

connectToServer

public void connectToServer()

This is called when the user submits the server information. It connects the client to the server and waits to receive messages.

receiveMessages

public void receiveMessages()

Infinitely waits to receive a message using TCP/IP or UDP protocol

disconnectFromServer

public void disconnectFromServer()

disconnect from the server, this is called when the user exits

sendMessage

public void sendMessage()

Send a message using TCP/IP or UDP protocol

getProtocol

public String getProtocol()

Get the current communication protocol being used

Returns:

the current communication protocol

setProtocol

public void setProtocol(String protocol)

Set the current communication protocol being used

Parameters:

protocol - the current communication protocol (UDP or TCP/IP)

closeSocket

public void closeSocket()

Closes the current socket. Is called when the client exits the window.

hault

private void hault()

Doesn't allow the client to do anything. This is called when the server crashes.

main

public static void main(String[] args)

Asks the Server to see a text file

Parameters:

args - Server_name Server_port