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Class NetworkTests

```
java.lang.Object
|
+--NetworkTests
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class NetworkTests
    extends java.lang.Object
```

Fields

GROUP

```
private java.net.InetAddress GROUP
```

PORT

```
private int PORT
```

characters

```
private byte[] characters
```

in

```
private java.net.DatagramPacket in
```

out

```
private java.net.DatagramPacket out
```

socket

```
private java.net.DatagramSocket socket
```

Constructors

NetworkTests

```
public NetworkTests()
```

Methods

Test1

```
public void Test1()
```

Test2

```
public void Test2()
```

Test3

```
public void Test3()
```

Test4

```
public void Test4()
```

setup

```
public void setup()
```

Package controller

Class Summary

[Controller](#)

controller

Class Controller

```
java.lang.Object
|
+--controller.Controller
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Controller
extends java.lang.Object
```

Fields

network

```
private NetworkHandler network
```

running

```
private boolean running
```

session

```
private Session session
```

Constructors

Controller

```
public Controller(Session session)
```

Constructor with the session this controller talks to

Parameters:

session - - the session that the controller passes commands into

Methods

append

```
private byte[] append(byte[] data,  
                       byte[] addition)
```

Parameters:

data - - first byte array
addition - - second byte array

Returns:

- a single byte array connected

append

```
private byte[] append(byte[] data,  
                       java.lang.String addition)
```

Parameters:

data - - first byte array
addition - - string to be added

Returns:

- a single byte array connected

getDynamicData

```
private java.lang.String getDynamicData(byte[] data,  
                                         int start)
```

Retrieves a given data from byte array where the start index is the size of the string to be received

Parameters:

data - - the byte[] array containing the information
start - - the index with the allocated size, start + 1 is where the string begins

Returns:

- the retrieved data

handshakeRequest

```
protected byte[] handshakeRequest(byte[] inFromClient)
```

CLIENT COMMAND - handshakeRequest

Parameters:

inFromClient - {'R' (1), IDlength (1), ID (x)}

Returns:

- the byte array to be returned

mediaPing

protected byte[] **mediaPing**(byte[] inFromClient)

CLIENT COMMAND - mediaPing

Parameters:

inFromClient - {'M' (1), 'P' (1)}

Returns:

- the byte array to be returned

mediaRequest

protected byte[] **mediaRequest**(byte[] inFromClient)

CLIENT COMMAND - mediaRequest

Parameters:

inFromClient - {'M' (1), 'R' (1), imageID (1), packet# (1)}

Returns:

- the byte array to be returned

parseNetworkCommand

public byte[] **parseNetworkCommand**(byte[] data)
throws java.lang.IllegalArgumentException

CLIENT COMMAND CONTROL POINT - handles all incoming client commands

Parameters:

data - the byte array containing the command params

Returns:

- the byte array to be returned based on the initial command

Throws:

java.lang.IllegalArgumentException - if the command given is invalid

start

public void **start**()
throws java.net.SocketException

Starts the network socket to start accepting packets from clients

Throws:

java.net.SocketException - if the port 9876 is in use

stop

```
public void stop()  
    throws java.lang.IllegalArgumentException
```

Stops the network socket from accepting packets from clients

Throws:

java.lang.IllegalArgumentException - - if nothing is running

vote

```
protected byte[] vote(byte[] inFromClient)
```

CLIENT COMMAND - vote

Parameters:

inFromClient - {'V' (1), IDlength (1), ID (x), voteNumber (1), Votelength (1), Vote (x)}

Returns:

- the byte array to be returned

Package gui

Class Summary

[ConsoleOutput](#)

[VotoDesktop](#)

[VotoDesktopFX](#)

gui

Class ConsoleOutput

```
java.lang.Object
|
+-- java.io.OutputStream
|   |
|   +-- gui.ConsoleOutput
```

All Implemented Interfaces:

java.io.Closeable, java.io.Flushable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class ConsoleOutput
extends java.io.OutputStream
```

Fields

output

```
private final javax.swing.JTextArea output
```

sb

```
private final java.lang.StringBuilder sb
```

title

```
private java.lang.String title
```

Constructors

ConsoleOutput

```
public ConsoleOutput(javax.swing.JTextArea out,  
                    java.lang.String title)
```

Methods

close

```
public void close()
```

Overrides:

close in class java.io.OutputStream

flush

```
public void flush()
```

Overrides:

flush in class java.io.OutputStream

write

```
public void write(int b)
```

Overrides:

write in class java.io.OutputStream

gui

Class VotoDesktop

```
java.lang.Object  
|  
+--gui.VotoDesktop
```

All Implemented Interfaces:

java.awt.event.ActionListener, java.lang.Runnable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class VotoDesktop  
extends java.lang.Object
```

implements `java.awt.event.ActionListener`, `java.lang.Runnable`

Fields

c

```
private Controller c
```

connectButton

```
private javax.swing.JButton connectButton
```

f

```
private javax.swing.JFrame f
```

fileChooser

```
private javax.swing.JFileChooser fileChooser
```

hostButton

```
private javax.swing.JButton hostButton
```

hostPanel

```
private javax.swing.JPanel hostPanel
```

ipField

```
private javax.swing.JTextField ipField
```

ipLabel

```
private javax.swing.JLabel ipLabel
```

joinButton

```
private javax.swing.JButton joinButton
```

openButton

```
private javax.swing.JButton openButton
```

s

```
private Session s
```

startPanel

```
private javax.swing.JPanel startPanel
```

t

```
private javax.swing.Timer t
```

Constructors

VotoDesktop

```
public VotoDesktop()
```

Methods

actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent e)
```

hostGUI

```
private void hostGUI()
```

joinGUI

```
private void joinGUI()
```

main

```
public static void main(java.lang.String[] args)
```

run

```
public void run()
```

startGUI

```
private void startGUI()
```

gui

Class VotoDesktopFX

```
java.lang.Object
|
+--javafx.application.Application
|
+--gui.VotoDesktopFX
```

All Implemented Interfaces:

java.awt.event.ActionListener, java.lang.Runnable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class VotoDesktopFX
extends javafx.application.Application
implements java.awt.event.ActionListener, java.lang.Runnable
```

Fields

fc

```
private javafx.stage.FileChooser fc
```

hostButton

```
private javafx.scene.control.Button hostButton
```

hostGrid

```
private javafx.scene.layout.GridPane hostGrid
```

hostStage

```
private javafx.stage.Stage hostStage
```

joinButton

```
private javafx.scene.control.Button joinButton
```

joinGrid

```
private javafx.scene.layout.GridPane joinGrid
```

joinStage

```
private javafx.stage.Stage joinStage
```

picPane

```
private javafx.scene.control.ScrollPane picPane
```

pics

```
private javafx.scene.layout.VBox pics
```

rootHost

```
private javafx.scene.layout.BorderPane rootHost
```

rootJoin

```
private javafx.scene.layout.BorderPane rootJoin
```

s

```
private Session s
```

votingButtons

```
private javafx.scene.control.Button[] votingButtons
```

Constructors

VotoDesktopFX

```
public VotoDesktopFX()
```

Methods

actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent e)
```

answerStage

```
public void answerStage()
```

hostGUI

```
private void hostGUI(javafx.stage.Stage p)
```

Host GUI displays IP address, allows user to open pictures, displays pictures, and lets the user select the correct answer for each picture

joinGUI

```
private void joinGUI(javafx.stage.Stage p)
```

main

```
public static void main(java.lang.String[] args)
```

openFile

```
private void openFile()
```

Open picture from file chooser to host pane

run

```
public void run()
```

start

```
public void start(javafx.stage.Stage primaryStage)
```

Start GUI has host or join options

Overrides:

start in class javafx.application.Application

Package networking

Class Summary

[NetworkHandler](#)

[UDPSocket](#)

networking

Class NetworkHandler

```
java.lang.Object
|
+--networking.NetworkHandler
```

All Implemented Interfaces:

java.io.Closeable, java.lang.Runnable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class NetworkHandler
extends java.lang.Object
implements java.io.Closeable, java.lang.Runnable
```

Author:

zomby This class controls whats coming in and out of the UDPSocket onPacketReceived, it passes it to the parser and finds the proper command

Fields

control

```
private Controller control
```

socket

```
private UDPSocket socket
```

Constructors

NetworkHandler

```
public NetworkHandler(Controller control)  
    throws java.net.SocketException
```

Create the controller

Throws:

java.net.SocketException - - If something is already using port 9876

Methods

close

```
public void close()
```

Close the socket

onPacketReceived

```
public void onPacketReceived(java.net.DatagramPacket inFromClient)
```

Parses the DatagramPacket into a set of keyword arguments, passes them onto a command parser

Parameters:

inFromClient - - The datagram packet received from client

reply

```
public void reply(byte[] data,  
                  java.net.DatagramPacket in)
```

Replies the given byte array to the location of the datagram packet

Parameters:

data - - the byte array to be sent

in - - the datagram packet to have the byte array sent too

run

```
public void run()
```

Start the socket

networking

Class UDP Socket

```
java.lang.Object
|
+--networking.UDP Socket
```

All Implemented Interfaces:

java.io.Closeable, java.lang.Runnable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class UDP Socket
extends java.lang.Object
implements java.io.Closeable, java.lang.Runnable
```

Author:

zomby This class is designed to open a Datagram socket on a defined port and then both send and receive

Fields

PORT

```
private final int PORT
```

isListening

```
private volatile boolean isListening
```

listener

```
private NetworkHandler listener
```

socket

```
private java.net.DatagramSocket socket
```

Constructors

UDPSocket

```
public UDPSocket(NetworkHandler l)
```

Create a new datagram socket, catch the error of something else using the port.

Methods

close

```
public void close()
```

Wait a second for the isListening to take affect then close it cause the loop in run will have stopped
This is not necessary but guarantees no error

run

```
public void run()
```

Start listening and in an infinite loop constantly receive packets, sending them up to the listener.

send

```
public void send(java.net.DatagramPacket outToClient)
```

Send DatagramPacket to client

Parameters:

outToClient - - Datagram packet to be sent

Package session

Class Summary

[Client](#)

[Question](#)

[Session](#)

[Vote](#)

session

Class Client

```
java.lang.Object
|
+--session.Client
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Client
extends java.lang.Object
```

Fields

ID

```
private java.lang.String ID
```

voteList

```
private java.util.ArrayList voteList
```

Constructors

Client

```
public Client(java.lang.String clientID)
```

Client constructor

Parameters:

clientID - - this client's ID

Methods

equals

```
public boolean equals(java.lang.String ID)
```

Tells whether or not the sent arg is the current client

Parameters:

ID - - a client ID to validate

Returns:

True if the ID sent in matches the current client's ID False if the IDs don't match

getClientVoteList

```
public java.util.ArrayList getClientVoteList()
```

Returns a list of all the clients final votes for current session

Returns:

List of client votes

getLastVote

```
public Vote getLastVote()
```

Returns the last vote sent by the specified client

Returns:

last received vote

setLastVote

```
public void setLastVote(Vote lastVote,  
                        Vote oldVote)
```

Sets the clients most recently sent vote as their current vote

Parameters:

lastVote - - the most recently sent vote

oldVote - - reference to previous client vote to be discarded

session

Class Question

```
java.lang.Object  
|  
+--session.Question
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Question  
extends java.lang.Object
```

Fields

answer

```
private Vote answer
```

answerSet

```
private java.util.HashMap answerSet
```

choices

```
private java.util.HashMap choices
```

currentSession

```
private Session currentSession
```

imageID

```
private int imageID
```

questionImg

```
public java.util.ArrayList questionImg
```

Constructors

Question

```
public Question(Session s,  
               java.util.ArrayList img,  
               int imageID)
```

Question constructor

Parameters:

s - - current session of this question
img - - image loaded with this question
imageID - - image ID for image param

Methods

addVote

```
public void addVote(java.lang.String clientID,  
                   java.lang.String clientVote)
```

Adds a vote from a client to the current question

Parameters:

clientID - - ID of the client sending the vote
clientVote - - the actual vote sent by the client

endQuestion

```
public void endQuestion()
```

Ends the current question and sets each client's last vote to be their final recorded vote

getAnswer

```
public Vote getAnswer()
```

Returns the correct answer for this question

Returns:

the Vote corresponding to the correct answer

getImagePacket

```
public byte[] getImagePacket(int packetNum)  
    throws java.lang.IllegalArgumentException
```

Returns a byte array containing the image for the current question

Parameters:

packetNum - - the packet number for the desired image

Returns:

image byte array

Throws:

java.lang.IllegalArgumentException -

imageID

```
public int imageID()
```

Returns the image ID for current question

Returns:

the image ID

imageSize

```
public int imageSize()
```

Returns the size of the current questions image

Returns:

current image size

setAnswer

```
public void setAnswer(java.lang.String ans)
```

Sets the correct answer for current question

Parameters:

ans - - String for the correct answer

session

Class Session

```
java.lang.Object  
|  
+--session.Session
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Session  
extends java.lang.Object
```

Fields

ID

```
public java.lang.String ID
```

clientList

```
private java.util.ArrayList clientList
```

control

```
private Controller control
```

currentQuestion

```
public Question currentQuestion
```

Constructors

Session

```
public Session()
```

Methods

addClient

```
public void addClient(java.lang.String ID)
```

Adds a new client to the session's client list with their ID

Parameters:

ID - - the new client's ID

getClient

```
public Client getClient(java.lang.String clientID)
```

Returns a client object based off of the client ID passed in

Parameters:

clientID - - ID of the desired client

Returns:

a client object

getCurrentImageID

```
public int getCurrentImageID()
```

Returns the ID for the image of the current question

Returns:

ID of current question image

getCurrentImagePacketCount

```
public int getCurrentImagePacketCount()
```

Returns the number of packets for the current question image

Returns:

image packet count

getCurrentImageSize

```
public int getCurrentImageSize()
```

Returns the size (in bytes) of the current session image

Returns:

image size in bytes

getImagePacket

```
public byte[] getImagePacket(int imageID,  
                               int packetNumber)  
    throws java.lang.IllegalArgumentException
```

Returns the image packet for the current question of the session

Parameters:

imageID - - ID of the question image

packetNumber - - corresponding packet number

Returns:

byte array packet for the current image

Throws:

java.lang.IllegalArgumentException -

hasImage

```
public boolean hasImage()
```

If a current Question is loaded

Returns:

- True if loaded, false if not (null)

loadImage

```
public java.util.ArrayList loadImage(java.lang.String filename)  
    throws java.io.IOException
```

Loads an image into an arraylist of bytearray of 64KB each

Parameters:

filename - - The filename of the image to be loaded

Returns:

- An arraylist of 60KB byte arrays

Throws:

java.io.IOException - - if the filename is invalid

start

```
public void start()  
    throws java.net.SocketException
```

Starts a Voto session

Throws:

java.net.SocketException -

stop

```
public void stop()  
    throws java.lang.IllegalArgumentException
```

Stops (or ends) the current Voto session

Throws:

java.lang.IllegalArgumentException -

session

Class Vote

```
java.lang.Object  
|  
+--session.Vote
```

< [Fields](#) > < [Constructors](#) >

```
public class Vote  
    extends java.lang.Object
```

Fields

ID

```
private final java.lang.Integer ID
```

Constructors

Vote

```
public Vote(java.lang.Integer i)
```

Vote constructor

Parameters:

i - - ID for the vote object

Package testing

Class Summary

[Client](#)

[Media](#)

Created by nicholasyamahamanschweikart on 3/13/17.

[MessageUtility](#)

Created by nicholasyamahamanschweikart on 3/1/17.

[Server](#)

[UDPClient](#)

[UDPClient.MediaResponse](#)

testing

Class Client

```
java.lang.Object
|
+--testing.Client
```

All Implemented Interfaces:
java.lang.Runnable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Client
extends java.lang.Object
implements java.lang.Runnable
```

Fields

f

```
javax.swing.JFrame f
```

Constructors

Client

```
public Client()
```

Methods

main

```
public static void main(java.lang.String[] args)
```

run

```
public void run()
```

testing

Class Media

```
java.lang.Object
|
+--testing.Media
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Media
extends java.lang.Object
```

Created by nicholas Yamahamanschweikart on 3/13/17.

Fields

TAG

```
private static final java.lang.String TAG
```

cursor

```
private int cursor
```

expectingPacketNumber

```
private int expectingPacketNumber
```

img

```
java.awt.image.BufferedImage img
```

imgBuffer

```
private byte[] imgBuffer
```

imgID

```
private byte imgID
```

imgSize

```
private int imgSize
```

ready

```
private boolean ready
```

totalPackets

```
private int totalPackets
```

Constructors

Media

```
Media(byte imgID,  
      int totalPackets,  
      int imgLength)
```

Methods

append

```
private byte[] append(byte[] data,  
                        byte[] addition,  
                        int cursor)
```

appendData

```
public void appendData(byte[] data)
```

getExpectingPacketNumber

```
public int getExpectingPacketNumber()
```

getImage

```
public java.awt.image.BufferedImage getImage()
```

getImgID

```
public byte getImgID()
```

isReady

```
public boolean isReady()
```

testing

Class MessageUtility

```
java.lang.Object  
|  
+--testing.MessageUtility
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class MessageUtility  
extends java.lang.Object
```

Created by nicholasyamahamanschweikart on 3/1/17.

Fields

HANDSHAKE_REQUEST

```
public static final byte HANDSHAKE_REQUEST
```

MEDIA_PING

```
public static final byte MEDIA_PING
```

MEDIA_REQUEST

```
public static final byte MEDIA_REQUEST
```

MEDIA_RESPONSE

```
public static final byte MEDIA_RESPONSE
```

TAG

```
private static final java.lang.String TAG
```

VOTE_REQUEST

```
public static final byte VOTE_REQUEST
```

VOTE_RESPONSE

```
public static final byte VOTE_RESPONSE
```

Constructors

MessageUtility

```
public MessageUtility()
```

Methods

append

```
private static byte[] append(byte[] data,  
                               byte[] addition)
```

getHandshakeRequestMessage

```
public static byte[] getHandshakeRequestMessage(java.lang.String id)
```

Builds a handshake request message.

Parameters:

id - your unique ID if you have one, NULL if not

Returns:

the byte[] message

getMediaPingMessage

```
public static byte[] getMediaPingMessage()
```

getMediaRequestMessage

```
public static byte[] getMediaRequestMessage(byte imgID,  
                                              int packetNumber)
```

getVoteMessage

```
public static byte[] getVoteMessage(java.lang.String id,  
                                     java.lang.String vote,  
                                     byte voteID)
```

parseMediaPing

```
public static boolean parseMediaPing(byte[] msg,  
                                       UDPClient.MediaResponse res)
```

parseMediaResponse

```
public static boolean parseMediaResponse(byte[] msg,  
                                           Media media)
```

parseVoteResponse

```
public static byte parseVoteResponse(byte[] message)
```

testing

Class Server

```
java.lang.Object  
|  
+--testing.Server
```

< [Constructors](#) > < [Methods](#) >

```
public class Server  
extends java.lang.Object
```

Constructors

Server

```
public Server()
```

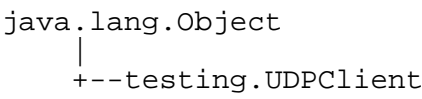
Methods

main

```
public static void main(java.lang.String[] args)
```

testing

Class UDPClient



All Implemented Interfaces:
java.lang Runnable

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class UDPClient
extends java.lang.Object
implements java.lang Runnable
```

Fields

GROUP

```
private java.net.InetAddress GROUP
```

PORT

```
private final int PORT
```

media

```
Media media
```

socket

```
java.net.DatagramSocket socket
```

Constructors

UDPClient

```
public UDPClient(int p)
```

Methods

run

```
public void run()
```

testing

Class UDPClient.MediaResponse

```
java.lang.Object
|
+--testing.UDPClient.MediaResponse
```

< [Fields](#) > < [Constructors](#) >

```
class UDPClient.MediaResponse
extends java.lang.Object
```

Fields

imgID

```
byte imgID
```

imgLength

```
int imgLength
```

packetCount

```
byte packetCount
```

Constructors

MediaResponse

MediaResponse ()

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