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# Package controller

## Class Summary

Controller

controller

# **Class Controller**

```
< <u>Fields</u> > < <u>Constructors</u> > < <u>Methods</u> >
```

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

## **Fields**

### network

private NetworkHandler network

## running

private boolean running

#### session

private <u>Session</u> 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

Returns:

- a single byte array connected

addition - - second byte array

### append

#### Parameters:

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

#### Returns:

- a single byte array connected

## getDynamicData

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

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.lllegalArgumentException - - if the command given is invalid

#### start

Starts the network socket to start accepting packets from clients

#### Throws:

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

### stop

Stops the network socket from accepting packets from clients

#### Throws:

java.lang.lllegalArgumentException - - 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

#### **ClientStage**

The stage that displays the list of connected clients

#### ClientStage.ClientArea

TextFlow that will be used to display the updated client list

#### ConnectionInfo

The stage that will show connection info

#### **ConsoleOutput**

#### **ConsoleStage**

The output console for the project

#### **HostScene**

The active session scene for voting and changing what the clients see

### **SetupScene**

#### **SetupStage**

The stage for creating the .voto files

#### **VoteScene**

#### **VotoDesktop**

#### **VotoDesktopFX**

The Main class in the project

#### **VotoMenuBar**

The Main MenuBar Wrapper for the Voto Desktop Application

# Class ClientStage

#### All Implemented Interfaces:

javafx.event.EventTarget

```
< Fields > < Constructors >
```

public class **ClientStage** extends javafx.stage.Stage

The stage that displays the list of connected clients

#### **Author:**

Jay

### **Fields**

### activeScene

private javafx.scene.Scene activeScene

### parent

private <u>VotoMenuBar</u> parent

### session

private final <u>Session</u> session

## ClientStage

Constructor that takes session pointer

#### Parameters:

s - Reference back to the running session

gui

# Class ClientStage.ClientArea

#### All Implemented Interfaces:

java.awt.event.ActionListener, javafx.css.Styleable, javafx.event.EventTarget

```
< Fields > < Constructors > < Methods >
```

public class **ClientStage.ClientArea** extends javafx.scene.text.TextFlow implements java.awt.event.ActionListener

TextFlow that will be used to display the updated client list

#### Author:

Jay Uses a 1sec timer to constantly recall the list and redraw

#### **Fields**

#### t

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

#### ClientArea

```
public ClientArea()
```

Constructor that makes 20/6 textarea and starts timer

## **Methods**

### actionPerformed

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

When timer fires, recall client list and write out to the textarea

gui

## **Class ConnectionInfo**

#### All Implemented Interfaces:

javafx.event.EventTarget

< Constructors >

public class **ConnectionInfo** extends javafx.stage.Stage

The stage that will show connection info

Author:

Josh

### ConnectionInfo

The constructor to create the new stage

#### Parameters:

n - The Session Name parent - The menubar that created this

gui

# **Class ConsoleOutput**

#### All Implemented Interfaces:

java.io.Closeable, java.io.Flushable

```
< Fields > < Constructors > < Methods >
```

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

### Fields

### output

private final javafx.scene.control.TextArea output

### sb

private final java.lang.StringBuilder sb

### title

private java.lang.String title

## **ConsoleOutput**

## 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)

Writes out to the text area

#### Overrides:

write in class java.io.OutputStream

# Class ConsoleStage

#### All Implemented Interfaces:

javafx.event.EventTarget

```
< Fields > < Constructors >
```

public class ConsoleStage extends javafx.stage.Stage

The output console for the project

#### Author:

Jay

### **Fields**

### activeScene

private javafx.scene.Scene activeScene

## consoleOutput

private javafx.scene.control.TextArea consoleOutput

### parent

private VotoMenuBar parent

## ConsoleStage

public ConsoleStage(VotoMenuBar parent)

Constructor that creates a 50/15 consolestage

#### Parameters:

parent - The menubar who enabled the console

gui

## Class HostScene

#### All Implemented Interfaces:

javafx.event.EventTarget

```
< Fields > < Constructors > < Methods >
```

public class **HostScene** extends javafx.scene.Scene

The active session scene for voting and changing what the clients see

#### Author:

Nic / Josh

## **Fields**

### fc

private javafx.stage.FileChooser fc

### file

```
private java.io.File file
```

#### mb

private javafx.scene.control.MenuBar mb

#### next

private javafx.scene.control.Button next

#### pane

private static javafx.scene.layout.Pane pane

## picIndex

private int picIndex

## picPane

private javafx.scene.control.ScrollPane picPane

## pics

private javafx.scene.layout.HBox pics

## questionIndex

private int questionIndex

## questions

private java.util.ArrayList questions

### rootHost

private static javafx.scene.layout.BorderPane rootHost

#### S

private <u>Session</u> s

#### **HostScene**

The scene that will display the images and is essentially the active scene for the program

#### Parameters:

se - The active session for the scene width - The width of the scene height - The height of the scene mb - The menubar to be passed in with the scene

#### Methods

## addImgToSP

```
private void addImgToSP(javafx.scene.image.ImageView iViewPrev)
```

Adds image to the HBox

#### Parameters:

iViewPrev - The image to be added as ImageView

#### addPic

```
private void addPic(java.lang.String filepath)
```

Opens picture and loads into an ImageView

#### Parameters:

filepath - The filepath of the image to be loaded

#### nextQuestion

```
private void nextQuestion()
```

Moves onto the nextQuestion in the session

## openFile

```
private void openFile()
```

Open picture from file chooser to host pane

gui

# Class SetupScene

#### All Implemented Interfaces:

javafx.event.EventTarget

```
< Fields > < Constructors > < Methods >
```

public class **SetupScene** extends javafx.scene.Scene

## Fields

#### ansButton

javafx.scene.control.Button[] ansButton

### exitItem

private javafx.scene.control.MenuItem exitItem

#### fc

private javafx.stage.FileChooser fc

### file

private java.io.File file

### fileMenu

private javafx.scene.control.Menu fileMenu

### fileName

### menuBar

private javafx.scene.control.MenuBar menuBar

## openItem

private javafx.scene.control.MenuItem openItem

### output

private java.io.BufferedWriter output

## picIndex

private int picIndex

## picPane

private javafx.scene.control.ScrollPane picPane

## pics

private javafx.scene.layout.HBox pics

## rootSetup

private static javafx.scene.layout.BorderPane rootSetup

### saveltem

private javafx.scene.control.MenuItem saveItem

## **SetupScene**

Constructor to create the setup scene

Parameters:

width - Scene width height - Scene height

### Methods

## addImgToSP

private void addImgToSP(javafx.scene.image.ImageView iViewPrev)

### addMenu

private void addMenu()

### addPic

private void addPic(java.lang.String filepath)

### answerPane

private void answerPane()

## openFile

private void openFile()

Loads a selected files in filechooser

### saveFile

private void saveFile()

gui

# Class SetupStage

#### All Implemented Interfaces:

javafx.event.EventTarget

```
< Fields > < Constructors > < Methods >
```

public class **SetupStage** extends javafx.stage.Stage

The stage for creating the .voto files

#### Author:

Nic

### **Fields**

### ansButton

javafx.scene.control.Button[] ansButton

### exitItem

private javafx.scene.control.MenuItem exitItem

### fc

private javafx.stage.FileChooser fc

### file

#### fileMenu

private javafx.scene.control.Menu fileMenu

### fileName

private java.lang.String fileName

#### menuBar

private javafx.scene.control.MenuBar menuBar

## openItem

private javafx.scene.control.MenuItem openItem

### outFile

private java.io.File outFile

## output

private java.io.BufferedWriter output

## picIndex

private int picIndex

## picPane

private javafx.scene.control.ScrollPane picPane

## pics

private javafx.scene.layout.HBox pics

## rootSetup

private javafx.scene.layout.BorderPane rootSetup

#### saveltem

private javafx.scene.control.MenuItem saveItem

## Constructors

## **SetupStage**

public SetupStage()

Constructor for the setup stage

### **Methods**

## addImgToSP

private void addImgToSP(javafx.scene.image.ImageView iViewPrev)

Add imageview to the Hbox

Parameters:

iViewPrev - The imageview to be added

### addMenu

private void addMenu()

Basic menubar for this stage

### addPic

private void addPic(java.lang.String filepath)

Converts image to ImageView and loads into HBox

**Parameters:** 

filepath - The image filepath

#### answerPane

```
private void answerPane()
```

The Answer Pane that allows you to select the correct answer

## openFile

```
private void openFile()
```

Loads specified file through a filechooser

### saveFile

```
private void saveFile()
```

Saves the current session voto file

gui

## Class VoteScene

#### All Implemented Interfaces:

javafx.event.EventTarget

```
< Fields > < Constructors >
```

public class **VoteScene** extends javafx.scene.Scene

### **Fields**

## joinGrid

private javafx.scene.layout.GridPane joinGrid

### rootJoin

## votingButtons

private javafx.scene.control.Button[] votingButtons

### Constructors

#### VoteScene

gui

# **Class 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

### 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 <u>Session</u> s

### startPanel

private javax.swing.JPanel startPanel

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**

```
< Fields > < Constructors > < Methods >
```

public class **VotoDesktopFX** extends javafx.application.Application

The Main class in the project

#### Author:

Nic

## **Fields**

#### IP

protected static java.lang.String IP

#### hostButton

private javafx.scene.control.Button hostButton

## joinButton

private javafx.scene.control.Button joinButton

#### menu

private <u>VotoMenuBar</u> menu

## primary

private javafx.stage.Stage primary

#### root

private javafx.scene.layout.BorderPane root

#### S

private <u>Session</u> s

## setupButton

private javafx.scene.control.Button setupButton

## Constructors

## VotoDesktopFX

public VotoDesktopFX()

## **Methods**

## exitProgram

protected void exitProgram()

Quit

## hostGUI

protected void hostGUI()

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)

#### start

public void start(javafx.stage.Stage primaryStage)

Start GUI has host or join options

**Overrides:** 

start in class javafx.application.Application

gui

## Class VotoMenuBar

#### All Implemented Interfaces:

javafx.css.Styleable, javafx.event.EventTarget, javafx.scene.control.Skinnable

< Fields > < Constructors > < Methods >

public class **VotoMenuBar** extends javafx.scene.control.MenuBar

The Main MenuBar Wrapper for the Voto Desktop Application

#### Author:

Josh

### **Fields**

### clientsItem

private javafx.scene.control.MenuItem clientsItem

### connectionItem

private javafx.scene.control.MenuItem connectionItem

### consoleltem

private javafx.scene.control.MenuItem consoleItem

### exitItem

private javafx.scene.control.MenuItem exitItem

### fileMenu

private javafx.scene.control.Menu fileMenu

## graphltem

private javafx.scene.control.MenuItem graphItem

### newItem

private javafx.scene.control.MenuItem newItem

#### nextItem

private javafx.scene.control.MenuItem nextItem

## openItem

private javafx.scene.control.MenuItem openItem

### parent

private VotoDesktopFX parent

### saveltem

private javafx.scene.control.MenuItem saveItem

#### sessionMenu

private javafx.scene.control.Menu sessionMenu

### windowMenu

private javafx.scene.control.Menu windowMenu

### **Constructors**

#### VotoMenuBar

The universal menu bar for the program

#### **Parameters:**

- s The active session
- p The main stage

## **Methods**

### enableClient

```
public void enableClient()
```

Re-enable the client dropdown item

### enableConnection

```
public void enableConnection()
```

Re-enable the connection dropdown item

### enableConsole

public void enableConsole()

Re-enable the console dropdown item

### setNext

public void setNext(javafx.event.EventHandler value)

Adjust what the next dropdown item does

Parameters:

value - The ActionEven to happen

## setOpenFile

public void setOpenFile(javafx.event.EventHandler value)

Change open to do something else

Parameters:

value - The new ActionEvent

# Package networking

## Class Summary

**NetworkHandler** 

**UDPSocket** 

#### networking

## Class 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 <a href="Controller">Control</a>

### socket

private <u>UDPSocket</u> socket

#### **NetworkHandler**

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

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 UDPSocket**

#### All Implemented Interfaces:

java.io.Closeable, java.lang.Runnable

```
< Fields > < Constructors > < Methods >
```

public class **UDPSocket** 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 <a href="NetworkHandler">NetworkHandler</a> listener

### socket

private java.net.DatagramSocket socket

#### **UDPSocket**

```
public UDPSocket(NetworkHandler 1)
```

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

## isListening

```
public boolean isListening()
```

Is the socket still listening

#### Returns:

If the socket is still listening or not

#### 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**

The client class which holds votes and IDs

#### **Question**

The Question class which holds the active image data, vote list, choices, and answers

#### **QuestionData**

The Question class stripped into just the important data to remove usage of RAM

#### **Session**

The session class which holds the question list, and is the "Active" class

#### **Vote**

A vote object

#### session

## **Class Client**

```
< Fields > < Constructors > < Methods >
```

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

The client class which holds votes and IDs

#### Author:

Jay

## **Fields**

### ID

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

### **lastVote**

### voteList

private java.util.ArrayList voteList

### voteNum

public int voteNum

## Constructors

### Client

```
public Client(java.lang.String clientID)
    Client constructor
    Parameters:
```

clientID - - this client's ID

## **Methods**

## equals

```
public boolean equals(java.lang.Object o)
```

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

**Overrides:** 

equals in class java.lang.Object

# getClientVoteList

```
public java.lang.Iterable getClientVoteList()
```

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

Returns:

List of client votes

# getID

```
public java.lang.String getID()
```

Gets the client ID

Returns:

the client's ID as a string

# getLastVote

```
public Vote getLastVote()
```

Returns the last vote sent by the specified client

Returns:

last received vote

### setAnswerVote

```
\begin{array}{c} \text{public void } \textbf{setAnswerVote}(\underbrace{\text{Ouestion}}_{\textbf{Vote}} \ \textbf{q}, \\ \\ \underline{\textbf{Vote}} \ \textbf{v}) \end{array}
```

Sets the final vote submitted for the question

#### Parameters:

v - The final vote submitted

### setLastVote

```
public void setLastVote(Vote newVote)
```

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**

< Fields > < Constructors > < Methods >

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

The Question class which holds the active image data, vote list, choices, and answers

#### Author:

Nick

## **Fields**

### answer

private Vote answer

### answerSet

private java.util.HashMap answerSet

### choices

private java.util.HashMap choices

# imageID

private int imageID

# questionImg

public java.util.ArrayList questionImg

# Constructors

### Question

Question constructor

#### Parameters:

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

### **Methods**

### addVote

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

# getAnswerSet

```
public java.util.HashMap getAnswerSet()
```

Returns the mapping of clients to their votes for the current question

### Returns:

HashMap of votes listing the clients who selected it

# getChoices

```
public java.util.HashMap getChoices()
```

# getlmagePacket

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.lllegalArgumentException -

# 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 QuestionData

```
< Fields > < Constructors > < Methods >
```

public class **QuestionData** extends java.lang.Object

The Question class stripped into just the important data to remove usage of RAM

#### Author:

Nick

### **Fields**

### ID

private int ID

# questionAnswerData

public java.util.HashMap questionAnswerData

### **Constructors**

## **QuestionData**

QuestionData constructor

## Methods

# equals

```
public boolean equals(java.lang.Object o)
```

#### Overrides:

equals in class java.lang.Object

# getID

```
public int getID()
```

Checks for a given ID and if there is available question data for it

#### Returns:

- the ID we are trying to access question data for

### session

# **Class Session**

```
< Fields > < Constructors > < Methods >
```

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

The session class which holds the question list, and is the "Active" class

#### Author:

Jay

## **Fields**

### ID

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

## clientList

private java.util.ArrayList clientList

### control

private <a href="Controller">Control</a>

## currentQuestion

private <u>Question</u> currentQuestion

### dataList

private java.util.ArrayList dataList

# imageID

private int imageID

## questionList

private java.util.ArrayList questionList

# Constructors

### Session

public Session(java.lang.String ID)

# **Methods**

### addClient

public boolean 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

### addClientVote

Adds a client vote to the current Question

### Parameters:

clientID - The string of the clients ID vote - The vote string

#### Returns:

false if not added or invalid, true if added

# getClient

```
public <u>Client</u> 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

# getClients

```
public java.lang.Iterable getClients()
```

# 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

# getCurrentQuestion

```
public <u>Ouestion</u> getCurrentQuestion()
```

the current Question

**Returns:** 

the current quesion

# getlmagePacket

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.lllegalArgumentException -

# haslmage

public boolean hasImage()

If a current Question is loaded

### Returns:

- True if loaded, false if not (null)

# loadImage

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

### returnQuestionDataBarChart

```
public java.util.HashMap returnQuestionDataBarChart(int ID)
```

Returns a HashMap used to build a bar chart corresponding to votes per choice for a given question

#### Parameters:

ID - - ID for the guestion we are accessing data for

#### Returns:

- Each vote choice with its corresponding number of votes

### returnQuestionDataPieChart

```
public java.util.HashMap returnQuestionDataPieChart(int ID)
```

Returns a HashMap used to build a pie chart corresponding to the percentage of votes per choice of a given question

### Parameters:

ID - - ID for the question we are accessing data for

#### Returns:

- Each vote choice with its corresponding percentage of votes

### setCurrentQuestion

Sets a new Question for the Session. Loads image via filename and sets the correct answer to be that of the inputted string.

#### Parameters:

filename - The image file to be loaded answer - The answer string to be accepted

### Returns:

True if loads properly, False if image fails

### setID

```
public void setID(java.lang.String id)
```

### start

Starts a Voto session

#### Throws:

java.net.SocketException -

### stop

Stops (or ends) the current Voto session

#### Throws:

java.lang.IllegalArgumentException -

#### session

# **Class Vote**

```
< Fields > < Constructors > < Methods >
```

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

A vote object

#### Author:

Jay

## **Fields**

### ID

private java.lang.String ID

# Constructors

### Vote

```
public Vote(java.lang.String i)
    Vote constructor
    Parameters:
        i -- ID for the vote object
```

# Methods

# equals

```
public boolean equals(java.lang.Object o)
```

### **Overrides:**

equals in class java.lang.Object

# getID

public java.lang.String getID()

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