**Classes**

**DBConnect**

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\* Class Description: This class is used for to make all queries and updates to the database

\*

\* Arguments of constructor: none

\*

\* Methods:

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\* String getDataLog - returns the password of a user

\* Inputs:

\* String username - username of the user

\*

\* String logIn - Logs a user in by updating the users log in status in the data base and returns a string

\* indicating whether or not the log in was successful

\* Inputs:

\* String userID - the user's username

\* String time - string representation of the time at which the user is logging in

\* Double time2 - time stamp for when the user is logging in

\*

\* Double logOut - Logs a user out by updating the user's log in status in the database and returns a double

\* indicating the amount of time the user was logged in

\* Inputs:

\* String userID - the user's username

\* String time - string representation of the time at which the user is logging in

\* Double time2 - time stamp for when the user is logging in

\* int dayOfWeek - an integer representing the day of the week

\*

\* void topicSubmission - makes a topic entry in the database for a group of students

\* Inputs:

\* names2: usernames

\* descriptions2: user descriptions

\* passwords2: user passwords

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\* String date: String representation of the date the the topic submission is being made

\*

\* int checkLogIn - checks to see if a user is logged in. Returns 1 if the user is logged in and 0 otherwise

\* Inputs:

\* userName - username of the user

\*

\* String[] getFullName - returns the full names associated usernames

\* Inputs

\* userNames[] - usernames for which the full names are to be retrieved

\*/

**MAC**

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\* Class description - Gets the MAC address of network interface currently in use. Online code

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**NtpMessage**

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\* Class description - formats time received from NTP server. Online code.

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**SntpClient**

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\* Class description - Client program which fetches time from NTP server. Online code

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**connection**

/\*\*

\*

\* class description - Holds port numbers, ip addresses, user names, and user passwords to make connections to both the MySQL server and FTP server.

\* the names of the variables are self explanatory

\*/

**deleteWhichEntry**

/\*\*

\* Class Description - This class gets the index of a student entry to be modified and then creats an instance of the

\* studySessionDescription class to change it.

\*

\* Arguments of the constructor -

\* String[] descriptions2 - array of descriptions submitted by each group member

\*

\* String[] names2 - array of the usernames of the group members

\*

\* String[] passwords2 - array of the passwords of the group members

\*

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\*

\* descriptionConfirmation dc2 - Instance of the descriptionConfirmation class currently displayed. Used to destroy the current instance when information

\* needs to be updated

\*

\* String[] fileName - array of filenames for the work which has been uploaded by the group

\*

\* Class Attributes: Most attributes are set by arguments from the constructor. The attributes that are set from arguments of the constructor can be defined by the values that are used to set them.

\* So refer to the description of the constructor inputs to understand the how the attribute is used.

\*

\* String[] names - namesS2

\* String[] passwords - passwordsS2

\* String[] descriptions - descriptionsS2

\* String[] file - fileName

\* int beginHourNum - beginHoutNum2

\* int beginMinNum - beginMinNum2

\* int endHourNum - endHourNum2

\* int endMinNum - endMinNum2

\* descriptionConfirmation dc1 - dc2

\* int studentEdit - the index of the student to be deleted

\* int range - the number of students in the group

\*

\* Class Methods:

\* submitActionPerformed - Action listener for the submit button

\* Inputs - the ActionEvent

\*/

**desciptionConfirmation**

/\*\*

\* Class Description - This class provides an interface and access to other classes which allow students to change session time

\* add student to group submission, delete a student from the group submission, edit a student submission, upload more work, and

\* submit the group submission

\*

\*

\* Arguments of the constructor -

\* String[] descriptions2 - array of descriptions submitted by each group member

\*

\* String[] names2 - array of the usernames of the group members

\*

\* String[] passwords2 - array of the passwords of the group members

\*

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\*

\* String[] fileName - array of filenames for the work which has been uploaded by the group

\*

\* Class Attributes: Most attributes are set by arguments from the constructor. The attributes that are set from arguments of the constructor can be defined by the values that are used to set them.

\* So refer to the description of the constructor inputs to understand the how the attribute is used.

\*

\* String[] names - namesS2

\* String[] passwords - passwordsS2

\* String[] descriptions - descriptionsS2

\* String[] file - fileName

\* int beginHourNum - beginHoutNum2

\* int beginMinNum - beginMinNum2

\* int endHourNum - endHourNum2

\* int endMinNum - endMinNum2

\* descriptionConfirmation dc - a handle to the instance of this class

\*

\*

\* Methods:

\* editTimeActionPerformed - action listener for the editTime button

\* Inputs - the ActionEvent

\* uploadWorkActionActionPerformed - action listener for the uploadWork button

\* Inputs - the ActionEvent

\* submitActionPerformed - action listener for the submit button

\* Inputs - the ActionEvent

\* editEntryActionPerformed - action listener for the editEntry button

\* Inputs - the ActionEvent

\* addEntryActionPerformed - action listener for the addEntry button

\* Inputs - the ActionEvent

\* deleteEntryActionPerformed - action listener for the deleteEntry button

\* Inputs - the ActionEvent

\*

\* Inner Classes:

\* time - class used to store the the current time

\* getTime - class used to retrieve the current time

\*/

**editWhichStudent**

/\*\*

\* Class Description - This class gets the index of a student entry to be modified and then creats an instance of the

\* studySessionDescription class to change it.

\*

\* Arguments of the constructor -

\* String[] descriptions2 - array of descriptions submitted by each group member

\*

\* String[] names2 - array of the usernames of the group members

\*

\* String[] passwords2 - array of the passwords of the group members

\*

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\*

\* descriptionConfirmation dc2 - Instance of the descriptionConfirmation class currently displayed. Used to destroy the current instance when information

\* needs to be updated

\*

\* String[] fileName - array of filenames for the work which has been uploaded by the group

\*

\* Class Attributes: Most attributes are set by arguments from the constructor. The attributes that are set from arguments of the constructor can be defined by the values that are used to set them.

\* So refer to the description of the constructor inputs to understand the how the attribute is used.

\*

\* String[] names - namesS2

\* String[] passwords - passwordsS2

\* String[] descriptions - descriptionsS2

\* String[] file - fileName

\* int beginHourNum - beginHoutNum2

\* int beginMinNum - beginMinNum2

\* int endHourNum - endHourNum2

\* int endMinNum - endMinNum2

\* descriptionConfirmation dc - dc2

\* int studentEdit - the index of the student to be edited

\* int range - the number of students in the group

\*

\* Class Methods:

\* sumbitActionPerformed - action listener for the submit button

\* Inputs - the ActionEvent

\*/

**groupCount**

/\*\*

\* Class Desription - this class just gets the number of students in the group and creates a studySessionDescription class Instance

\*

\* Inputs to the constructor - none

\*

\* Class attributes:

\* JTextField numberArea - text field use to retrieve the number of students

\*

\* Class Methods: none

\*

\*

\*/

**groupTime**

/\*\*

\* Class description - class to get the beginning and ending time of the class group session

\*

\* Arguments of Constructor:

\* String[] descriptions2 - array of descriptions submitted by each group member

\*

\* String[] names2 - array of the usernames of the group members

\*

\* String[] passwords2 - array of the passwords of the group members

\*

\*

\* descriptionConfirmation dc2 - Instance of the descriptionConfirmation class currently displayed. Used to destroy the current instance when information

\* needs to be updated

\*

\* String[] fileName - array of filenames for the work which has been uploaded by the group

\*

\* Class Attributes: Most attributes are set by an argument of the constructor. The attributes which are set by the arguments of the constructor can be defined by the value used to set them

\* So refer to the description of the inputs to understand the how the attribute is used.

\*

\* String[] names - names2

\* String[] pass - passwords2

\* String[] descrip - descriptions2

\* String[] file - fileName

\* descriptionConfirmation dc1 - dc2

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\*/

**hash**

/\*\*

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\* class description - gets the sha1 hash of a given string. Online code

\*/

**login**

/\*\*

\* Class Description - used to log students in and out of study session

\*

\* Arguments of the constructor - none

\*

\* Class attributes:

\* String usernameString - used to hold the username that the user has entered in the UI

\* String passwordString - used to hold the password that the user has entered in the UI

\* DBConnect dataGiver - object used to communicate with the database

\*

\* Class Medthods

\* b3ActionPerformed - Evoked when the button with text Collaborative Learning is pressed

\* Inputs - the ActionEvent

\* b2ActionPerformed - Evoked when the button with test Log In is pressed

\* Inputs - the ActionEvent

\* b1ActionPerformed - Evoked then the button with text Log out is pressed

\* Inputs - the ActionEvent

\*

\* Inner Classes:

\* time - class used to store the the current time

\* getTime - class used to retrieve the current time

\*

\*

\*/

**studySession**

/\*\*

\* Class description: Main class. Creates a class instance logIn

\*

\*/

**studySessionDescription**

/\*\*

\* Class description: This class allows students of a group to enter a description

\* of work done while in the group. The class also takes information gathered for the

\* group submission and passes it to the next JFrame to be shown

\*

\* Arguments of constructor:

\* int option2 - Indicates whether or not this class instance was created in an editWhichStudent class instance or a groupTime class instance

\*

\* int option22 - Indicates whether or not the instance of this class was created in an instance of the descriptionConfirmation class

\*

\* int current - Indicates the index of the user currently using the instance of this class to submit

\* his or her information

\* int number - The total number of students in the group

\*

\* String[] descriptionsS2 - array of descriptions submitted by each group member

\*

\* String[] namesS2 - array of the usernames of the group members

\*

\* String[] passwords - array of the passwords of the group members

\*

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\*

\* descriptionConfirmation dc2 - Instance of the descriptionConfirmation class currently displayed. Used to destroy the current instance when information

\* needs to be updated

\*

\* String[] fileName - array of filenames for the work which has been uploaded by the group

\*

\* DBConnect dataGiver - Instance of DBConnect class. Used to access the database

\*

\* Class Attributes: All attributes are set by an argument of the constructor. The attributes are defines by the values that are used to set them.

\* So refer to the description of the inputs to understand the how the attribute is used.

\*

\* String[] namesS - namesS2

\* String[] passwordsS - passwordsS2

\* String[] descriptionS - descriptionsS2

\* String[] file - fileName

\* int currentStudent - current

\* int numberOfStudens - number

\* int option - option2

\* int option12 - option22

\* int beginHourNum - beginHoutNum2

\* int beginMinNum - beginMinNum2

\* int endHourNum - endHourNum2

\* int endMinNum - endMinNum2

\* descriptionConfirmation dc1 - dc2

\* DBConnect dataGiver - dataGiv

\*

\* Class Methods:

\* SubmitActionPerformed - Evoked when the submit button is pressed

\* Inputs: the ActionEvent

\* SkipActionPerformed - Evoked when the skip button is pressed

\* Inputs: the ActionEvent

\*/

**workUpload**

/\*\*

\* Class description: This class allows students to upload work to an FTP server

\*

\* Arguments of the constructor:

\* int option2 - A JFrame reference which is not does not effect operations performed in this class

\*

\* int option22 - A JFrame reference which is used to determine what JFrame should be shown after this one

\*

\* int current - Indicates the index of the user currently using the instance of this class to submit

\* his or her information

\* int number - The total number of students in the group

\*

\* String[] descriptionsS2 - array of descriptions submitted by each group member

\*

\* String[] namesS2 - array of the usernames of the group members

\*

\* String[] passwords - array of the passwords of the group members

\*

\* int beginHourNum2, beginMinNum2, endHourNum2, endMinNum2 - beginning and ending hour and minute of group submission

\*

\* descriptionConfirmation dc2 - Instance of the descriptionConfirmation class currently displayed. Used to destroy the current instance when information

\* needs to be updated

\*

\* String[] fileName - array of filenames for the work which has been uploaded by the group

\*

\* DBConnect dataGiver - Instance of DBConnect class. Used to access the database

\*

\* Class Attributes: Most attributes are set by arguments from the constructor. The attributes that are set from arguments of the constructor can be defined by the values that are used to set them.

\* So refer to the description of the constructor inputs to understand the how the attribute is used.

\*

\* String[] namesS - namesS2

\* String[] passwordsS - passwordsS2

\* String[] descriptionS - descriptionsS2

\* String[] file - fileName

\* int currentStudent - current

\* int numberOfStudens - number

\* int option - option2

\* int option12 - option22

\* int beginHourNum - beginHoutNum2

\* int beginMinNum - beginMinNum2

\* int endHourNum - endHourNum2

\* int endMinNum - endMinNum2

\* descriptionConfirmation dc1 - dc2

\* FileInputStream in- Input stream for the file to be uploaded

\* FTPClient ftp- class instance used to connect to the FTP server and upload work

\* File f - class instance to hold data for the file selected to be uploded

\*

\* Methods:

\* SubmitActionPerformed - Evoked when the submit button is pressed

\* Inputs: the ActionEvent

\* SkipActionPerformed - Evoked when the skip button is pressed

\* Inputs: the ActionEvent

\* UploadActionPerformed - Evoked when the upload button is pressed

\* Inputs: the ActionEvent

\*

\* BrowseActionPerformed - Evoked then the browse button is pressed

\* Inputs: the ActionEvent

\*/