Classes

ClassChat

FillInTheBlankOuestion

Class representing an individual FillInTheBlankQuestion

Message

The Message class defines any message sent in the class chat. Messages can be sent, replied to, edited, and deleted

MultipleChoiceQuestion

Class representing an individual MultipleChoiceQuestion

OpenEndedQuestion

The OpenEndedQuestion class defines the prompts (question) that will be received and set from the database

Poll

Class representing an individual poll

Quiz Report Session

Class representing an individual class session

UnderstandingMeter

ClassChat

Kind: global class

- ClassChat
 - new ClassChat()
 - .getMessage() ⇒ string
 - .setMessagesFromDb()
 - .recieveMessageFromUser()

new ClassChat()

Creating a chat class (Will have to load messages from database)

classChat.getMessage() ⇒ string

Get message from db

Kind: instance method of ClassChat Returns: string - messages from db

classChat.setMessagesFromDb()

Update message from db

Kind: instance method of ClassChat

classChat.recieveMessageFromUser()

Collect message from User

Kind: instance method of ClassChat

FillInTheBlankQuestion

Class representing an individual FillInTheBlankQuestion

Kind: global class

- FillInTheBlankQuestion
 - new FillInTheBlankQuestion(prompt, answer)
 - o .getPrompt() ⇒ string
 - $\circ \ \ .setPrompt(promptText) \Rightarrow \ boolean \\$
 - \circ .getAnswer() \Rightarrow int
 - \circ .setAnswer(answer) \Rightarrow boolean

new FillInTheBlankQuestion(prompt, answer)

| Param | Туре | Description |
|--------|--------|--|
| prompt | string | a question prompt |
| answer | int | index of the correct option. Will be -1 if no answer is necessary. |

fillInTheBlankQuestion.getPrompt() ⇒ string

get the prompt string

 $\textbf{Kind:} instance\ method\ of\ FillInTheBlankQuestion$

Returns: string - prompt text

$fillInTheBlankQuestion.setPrompt(promptText) \Rightarrow boolean$

set the question prompt text

Kind: instance method of FillInTheBlankQuestion **Returns**: boolean - true on success, false on failure

| Param | Туре | Description |
|------------|--------|------------------------------|
| promptText | string | text for the question prompt |

$fillInTheBlankQuestion.getAnswer() \Rightarrow int$

get the prompt answer

Kind: instance method of FillInTheBlankQuestion

Returns: int - answer index, corresponding to the options list

fillInTheBlankQuestion.setAnswer(answer) ⇒ boolean

sets the correct option index

Kind: instance method of FillInTheBlankQuestion **Returns**: boolean - true on success, false on failure

| Param | Туре |
|--------|------|
| answer | int |

Message

The Message class defines any message sent in the class chat. Messages can be sent, replied to, edited, and deleted

Kind : global class

- Message
 - new Message(id, content, replyTo, user)
 - o .getId() ⇒ number
 - .setId(content)
 - o .getContent() ⇒ string
 - setContent(content)
 - getReplyTo() ⇒ Message
 - o .getUser() ⇒ User
 - setId(user)
 - o .getCreateTime() ⇒ Date
 - .setCreateTime()

new Message(id, content, replyTo, user)

Create a message.

| Param | Туре | Description |
|-------|--------|---------------|
| id | number | The id value. |

| Param | Туре | Description |
|---------|---------|---------------------------------------|
| content | string | The content of the message. |
| replyTo | Message | The Message being replied to or Null. |
| user | User | The user who created the message. |

message.getId() ⇒ number

Get the id value.

Kind: instance method of Message **Returns**: number - The id value.

message.setId(content)

Set the id value. Should be used to delete a message, (id = Null), without deleting replies

Kind: instance method of Message

| Param | Туре | Description |
|---------|--------|-----------------------------|
| content | string | The content of the message. |

$message.getContent() \Rightarrow string$

Get the content value.

Kind: instance method of Message

Returns: string - The content of the message.

message.setContent(content)

Set the content value.

Kind: instance method of Message

| Param | Туре | Description |
|---------|--------|-----------------------------|
| content | string | The content of the message. |

message.getReplyTo() ⇒ Message

Get the replyTo value.

Kind: instance method of Message

Returns: Message - The message being replied to.

message.getUser() ⇒ user

Get the user value.

 $\textbf{Kind} : instance \ method \ of \ \ \underline{\textbf{Message}}$

Returns: User - The User who posted the message.

message.setId(user)

Set the user value. Should be used to delete a message, (user = Null), without deleting replies

Kind: instance method of Message

| Param | Туре | Description |
|-------|------|-----------------------------|
| user | User | The content of the message. |

$message.getCreateTime() \Rightarrow Date$

Get the Date value.

Kind: instance method of Message

Returns: Date - The date the message was created or altered.

message.setCreateTime()

Set the createTime value.

Kind: instance method of Message

MultipleChoiceQuestion

Class representing an individual MultipleChoiceQuestion

Kind: global class

- MultipleChoiceQuestion
 - new MultipleChoiceQuestion(prompt, options, answer)
 - getPrompt() ⇒ string
 - setPrompt(promptText) ⇒ boolean
 - o .getOptions() ⇒ string
 - setOptions(options) ⇒ boolean
 - getAnswer() ⇒ int
 - setAnswer(answer) ⇒ boolean

new MultipleChoiceQuestion(prompt, options, answer)

| Param | Туре | Description |
|---------|--------------------------|--|
| prompt | string | a question prompt |
| options | Array. <string></string> | a list of options to choose from for the given prompt |
| answer | int | index of the correct option. Will be -1 if no answer is necessary. |

multipleChoiceQuestion.getPrompt() ⇒ string

get the prompt string

Kind: instance method of MultipleChoiceQuestion

Returns: string - prompt text

multipleChoiceQuestion.setPrompt(promptText) ⇒ boolean

set the question prompt text

Kind: instance method of MultipleChoiceQuestion Returns: boolean - true on success, false on failure

| Param | Туре | Description |
|------------|--------|------------------------------|
| promptText | string | text for the question prompt |

multipleChoiceQuestion.getOptions() ⇒ string

get the prompt string

 $\textbf{Kind:} instance \ method \ of \ \ \textbf{MultipleChoiceQuestion}$

Returns: string - prompt text

$multipleChoiceQuestion.setOptions(options) \Rightarrow boolean$

set question options

Kind: instance method of MultipleChoiceQuestion Returns: boolean - true on success, false on failure

| Param | Туре | Description |
|---------|--------------------------|----------------------------|
| options | Array. <string></string> | a list of question options |

multipleChoiceQuestion.getAnswer() ⇒ int

get the prompt answer

Kind: instance method of MultipleChoiceQuestion

Returns: int - answer index, corresponding to the options list

multipleChoiceQuestion.setAnswer(answer) ⇒ boolean

sets the correct option index

Kind: instance method of MultipleChoiceQuestion Returns: boolean - true on success, false on failure

| Param | Туре |
|--------|------|
| answer | int |

OpenEndedQuestion

The OpenEndedQuestion class defines the prompts (question) that will be received and set from the database

Kind: global class

- OpenEndedQuestion
 - new OpenEndedQuestion(prompt)
 - o .getPrompt() ⇒ string
 - setPrompt()

new OpenEndedQuestion(prompt)

Choose and display openEnded question

| Param | Туре | Description |
|--------|--------|--|
| prompt | string | The question or statement that will be displayed |

openEndedQuestion.getPrompt() ⇒ string

Get the prompt string.

 $\textbf{Kind:} instance\ method\ of\ OpenEndedQuestion$

Returns: string - The question/statement that will be responsible to connect with DB.

openEndedQuestion.setPrompt()

Set the question/statement.

 $\textbf{Kind:} instance\ method\ of\ OpenEndedQuestion$

Poll

Class representing an individual poll

Kind: global class

- Poll
- new Poll(question, pollId)
- .getPollQuestion() ⇒ MultipleChoiceQuestion
- \circ .setPollQuestion(question) \Rightarrow boolean
- $\circ \ .\mathsf{getPollId}() \Rightarrow \mathsf{int}$
- $\circ \ \ .setPollId(id) \Rightarrow boolean$
- \circ .handlePollResponse(response) \Rightarrow boolean

new Poll(question, pollId)

| Param | Туре | Description |
|----------|------------------------|---|
| question | MultipleChoiceQuestion | a multiple choice question object to ask for the poll |
| pollId | int | poll id from database |

poll.getPollQuestion() ⇒ MultipleChoiceQuestion

returns the current poll question

Kind: instance method of Poll

Returns: MultipleChoiceQuestion - the current poll question

poll.setPollQuestion(question) ⇒ boolean

sets the current poll question

Kind: instance method of Poll

Returns: boolean - true on success, false on failure

| Param | Туре |
|----------|------------------------|
| question | MultipleChoiceQuestion |

$poll.getPollId() \Rightarrow int$

returns the current poll id, which is set from the database

Kind: instance method of Poll

Returns: int - the current pollid, set from the database

$poll.setPollId(id) \Rightarrow boolean$

sets the current poll id from the database

Kind: instance method of Poll

Returns: boolean - true on success, false on failure

| Param | Туре |
|-------|------|
| id | int |

poll.handlePollResponse(response) ⇒ boolean

handles incoming poll responses from clients and stores them

Kind: instance method of Poll

Returns: boolean - true on success, false on failure

| Param | Туре | Description |
|----------|------|--|
| response | int | a response from the client, corresponding to a question option index |

Quiz

Kind: global class

- Quiz
 - new Quiz()
 - o .randomizeQuestionOrder() ⇒ Array.<QuizQuestion>
 - .handleQuizResponse()
 - .getMultipleChoiceQs() → Array.<MultipleChoiceQuestion>
 - .setMultipleChoiceQs()
 - .getFillInTheBlankQs() ⇒ Array.<FillInTheBlankQuestion>
 - .setFillInTheBlankQs()
 - .getOpenEndedQs() ⇒ OpenEndedQuestion
 - .setOpenEndedQs()

new Quiz()

Represents a quiz which can hold multiple choice, fill in the blank, and open ended questions

quiz.randomizeQuestionOrder() ⇒ Array.<QuizQuestion>

methed compiles all questions into one list in a random order

Kind: instance method of Quiz

Returns: Array. < QuizQuestion > -- a QuizQuestion is either a MultipleChoiceQuestion, FillInTheBlankQuestion, or OpenEndedQuestion

quiz.handleQuizResponse()

method handles a quiz response

Kind: instance method of Quiz

$quiz.getMultipleChoiceQs() \Rightarrow Array. < MultipleChoiceQuestion >$

method returns multiple choice question array

Kind: instance method of Quiz

quiz.setMultipleChoiceQs()

method sets the multiple choice question array

Kind: instance method of Quiz

quiz.getFillInTheBlankQs() ⇒ Array.<FillInTheBlankQuestion>

method returns fill in the blank question array

Kind: instance method of Quiz

quiz.setFillInTheBlankQs()

method sets the fill in the blank question array

Kind: instance method of Quiz

$quiz.getOpenEndedQs() \Rightarrow OpenEndedQuestion$

method returns the open ended question array

Kind: instance method of Quiz

quiz.setOpenEndedQs()

method sets the open ended question array

Kind: instance method of Quiz

Report

Kind: global class Constuctor:

- Report
 - new Report(ClassChat)
 - $\bullet \quad . getUnderstandingMeters() \Rightarrow \ \ \, Array. < UnderstandingMeter> \\$
 - .getPolls() \Rightarrow Array.<Poll>
 - $.getQuizzes() \Rightarrow Array.<Quiz>$
 - getSessionChat() ⇒ ClassChat

new Report(ClassChat)

Represents a Report object that holds session info/stats

| Param | Туре | Description |
|-----------|-----------|-------------------------------|
| ClassChat | ClassChat | object containing messages |

report.getUnderstandingMeters() ⇒ Array.<UnderstandingMeter>

method to retrieve understanding meters

Kind: instance method of Report

report.getPolls() ⇒ Array.<Poll>

method to retrieve polls

Kind: instance method of Report

report.getQuizzes() ⇒ Array.<Quiz>

method to retrieve quizzes

Kind: instance method of Report

report.getSessionChat() ⇒ classChat

method to retrieve session chat

Kind: instance method of Report

Session

Class representing an individual class session

Kind: global class

- Session
 - new Session(sessionName, owner, report)
 - o .getUsers() ⇒ Array.<string>
 - setUsers(users) ⇒ boolean
 - addUser(user) ⇒ boolean
 - getOwner() ⇒ string
 - setOwner(owner) ⇒ boolean
 - o .getSessionName() ⇒ string
 - \circ .setSessionName(name) \Rightarrow boolean
 - $.getElapsedTime() \Rightarrow int$

new Session(sessionName, owner, report)

| Param | Description |
|-------------|---|
| sessionName | the name of the session, used to join |
| owner | the name of the user who created the session |
| report | report object holding class session information |

session.getUsers() ⇒ Array.<string>

gets a list of current users

Kind: instance method of Session
Returns: Array.<string> - a list of users

session.setUsers(users) ⇒ boolean

sets the users list

Kind: instance method of Session

Returns: boolean - true for success, false for failure

| Param | Туре |
|-------|--------------------------|
| users | Array. <string></string> |

session.addUser(user) ⇒ boolean

adds a user to the session as well as the users list

Kind: instance method of Session

Returns: boolean - true for success, false for failure

| Param | Туре |
|-------|--------|
| user | string |

session.getOwner() ⇒ string

gets the name of the user who controls the session

Kind: instance method of Session **Returns**: string - owner name

$session.setOwner(owner) \Rightarrow boolean$

sets the name of the user who controls the session

Kind: instance method of Session

Returns: boolean - true for success, false for failure

| Param | Туре |
|-------|--------|
| owner | string |

session.getSessionName() ⇒ string

gets the name of the session

Kind: instance method of Session **Returns**: string - name of the session

session.setSessionName(name) ⇒ boolean

sets the name of the session

Kind: instance method of Session

Returns: boolean - true for success, false for failure

| Param | Туре |
|-------|--------|
| name | string |

session.getElapsedTime() \Rightarrow int

calculates the time from session start to the current time in seconds

Kind: instance method of Session **Returns**: int - elapsed time in seconds

UnderstandingMeter

Kind: global class

- UnderstandingMeter
 - new UnderstandingMeter(score, user, history)
 - \circ .getScore() \Rightarrow Number
 - setScore(newScore)
 - o .getUser() ⇒ string
 - .recordChange()
 - o .getTime() ⇒ Date

new UnderstandingMeter(score, user, history)

Creating an understanding meter class

| Param Type Description |
|------------------------|
|------------------------|

| Param | Туре | Description |
|---------|--------|--|
| score | int | the score from student |
| user | string | name of the user |
| history | object | record changes {K = time: V = {score:int}} |

understandingMeter.getScore() ⇒ Number

Return the understanding score of the student

Kind: instance method of UnderstandingMeter

Returns: Number - student's score

understandingMeter.setScore(newScore)

Allows modification of score

Kind: instance method of UnderstandingMeter

| Param | Туре | Description |
|----------|------|-----------------------------|
| newScore | int | the new score to be updated |

understandingMeter.getUser() ⇒ string

Return the name of the user

 $\textbf{Kind:} instance\ method\ of\ \ \textbf{UnderstandingMeter}$

Returns: string -user

understandingMeter.recordChange()

Update the history object of the user

$understandingMeter.getTime() \Rightarrow Date$

Return the current time of session during run time

Returns: Date - currTime - the current time when the func is called