7/25/2021 GameService

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FRAMES NO FRAMES PREVICUASS NEXT CLASS ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

de htwberlin kba.gr7.vocabduel.game_administration.export

Interface GameService

public interface GameService

Service for managing current games and their rounds.

Version:

1.0, May 2021

Author:

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Field Summary

Fields

Modifier and Type Field and Description

static int NR_OF_ROUNDS

Integer: Fix number of Rounds per game

Method Summary

All Methods Instance Methods **Abstract Methods**

Modifier and Type

 $\verb|de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.CorrectAnswerResult| \\$

java.util.List<de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.RunningVocabduelGame>

int

 ${\tt de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.RunningVocabduelGame_administration.export.modelGame_administration.export.modelGame_administration.export.modelGam$

 $\verb|de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.VocabduelRound| \\$

Method and Description

answerQuestion(de.htwberlin.kba.g int roundNr, int answerNr) Checks and stores the result for an answe

getPersonalChallengedGames(de.htw Collects all pending, i.e. not finished, garr

removeWidowGames()

Removes all running games with at least of

startGame(de.htwberlin.kba.gr7.vo de.htwberlin.kba.gr7.vocabduel.us java.util.List<de.htwberlin.kba.g</pre> Starts a new game as playerA against pl started match.

startRound(de.htwberlin.kba.gr7.v Starts the next round of a given game as $\boldsymbol{\epsilon}$

Field Detail

NR_OF_ROUNDS

static final int NR_OF_ROUNDS

Integer: Fix number of Rounds per game

See Also:

Constant Field Values

Method Detail

startGame

de.htwberlin.kba.gr7.vocabduel.user_admi

java.util.List<de.htwberlin.kba.gr7.voca throws de.htwberlin.kba.gr7.vocabduel.user_admi de.htwberlin.kba.gr7.vocabduel.game_admi

de.htwberlin.kba.gr7.vocabduel.game_admi de.htwberlin.kba.gr7.vocabduel.user_admi 7/25/2021 GameService

> de.htwberlin.kba.gr7.vocabduel.vocabular de.htwberlin.kba.gr7.vocabduel.game admi

Starts a new game as playerA against playerB with the given parameters (languages/vocable lists) and returns an instance of that newly started match.

Parameters:

playerA - Player initiating the game.

playerB - Opponent to be invited to play with playerA.

vocablelists - List of vocable lists to be used in the game. The questions will be randomly picked from these lists.

New RunningVocabduelGame instance based on the given params.

de.htwberlin.kba.gr7.vocabduel.user administration.export.exceptions.InvalidUserException - One of the given users could not be found.

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.InvalidGameSetupException - The setup of the game is not valid for a reason described in the given error message.

 $\tt de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.NotEnoughVocabularyException - The provided VocableLists do the provided VocableLists of the provided VocableLists of$ not contain enough Vocables for GameAdministration.NR_OF_ROUNDS rounds per game.

de.htwberlin.kba.gr7.vocabduel.user_administration.export.exceptions.UserOptimisticLockException - An OptimisticLock error in the user module occurred.

de.htwberlin.kba.gr7.vocabduel.vocabulary_administration.export.exceptions.VocabularyOptimisticLockException - An OptimisticLock error in the vocabulary module occurred.

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.GameOptimisticLockException - An OptimisticLock error in the game module occurred.

getPersonalChallengedGames

java.util.List<de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.RunningVocabduelGame> getPersonalChallengedGames(de.htwb throws de.htwb

Collects all pending, i.e. not finished, games a given user has been challenged to and returns them.

Parameters:

user - User the pending/challenged matches of are to be returned.

Returns:

List of all unfinished games the given user has been challenged to or has started.

de.htwberlin.kba.gr7.vocabduel.game administration.export.exceptions.GameOptimisticLockException - An OptimisticLock error in the game module occurred.

startRound

 $\tt de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.VocabduelRound \ startRound (de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.vocabduelRound \ startRound (de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.vocabduelRound \ startRound (de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.vocabduelRound \ startRound (de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.vocabduelRound \ startRound (de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.vocabduelRound \ startRound \ s$ long gameId)

throws de.htwberlin.kba.gr7.vocabduel.game_administr de.htwberlin.kba.gr7.vocabduel.game_administr

Starts the next round of a given game as a given player, i.e. returns the respective next round object.

Parameters:

player - Player the next round is to be returned for.

gameId - Id of the game the next round of is to be returned for the given user.

Current VocabduelRound of a given game for a given user. including the 1 correct and the other wrong answer possibilities without knowing which is what.

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.NoAccessException - The given user is no participant of the given round or it could not be found at all.

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.GameOptimisticLockException - An OptimisticLock error in the game module occurred.

answerQuestion

de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.CorrectAnswerResult answerQuestion(de.htwberlin.kba.gr7.vocabduel.user_

long gameId, int roundNr,

int answerNr)

throws de.htwberlin.kba.gr7.vocabduel.game_

de.htwberlin.kba.gr7.vocabduel.game_

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Checks and stores the result for an answer submitted in a given round by a given player. The information, which answer the right one is, stays server sided. This request checks whether the submitted answer is right or not and returns feedback for that answer incl. the correct answer in case of having submitted a wrong one. Afterwards only the check whether the user was wrong of right will be stored. The information, which answer the user chose, will be lost.

Parameters:

player - Player who has answered the question.

gameId - Id of the game the answer is to be submitted for.

roundNr - Nr of the round the answer is to be submitted for.

answerNr - Nr of the answer submitted by the given player.

Result for the given round from the perspective of the given player incl. the correct answer in case of having submitted a wrong one.

Throws:

de.htwberlin.kba.gr7.vocabduel.game administration.export.exceptions.InvalidVocabduelGameNrException - The question has already been answered by the current user or an invalid answer number has been stated.

 ${\tt de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.} No Access {\tt Exception} \ - \ {\tt The \ given \ user \ is \ no \ participant \ of \ the \ properties and the largest of the largest properties and the largest properties are largest properties are largest properties and the largest properties are largest properties and the largest properties are largest properties and the largest properties are largest properties and the largest properties are largest properties are largest properties and the largest properties are largest properties are larg$ given round or it could not be found at all.

 $\tt de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions. GameOptimisticLockException - An OptimisticLock error in the administration of the control of the$ game module occurred.

removeWidowGames

int removeWidowGames()

 $throws \ de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions. GameOptimisticLockException$

Removes all running games with at least one removed user and all finished games with two removed users.

Returns:

0 in case of success

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.GameOptimisticLockException - An internal error in the game module occurred.

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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