25.7.2021 GameService

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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**

NR OF ROUNDS static int

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

de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.RunningVocabduelGame

de.htwberlin.kba.gr7.vocabduel.game administration.export.model.VocabduelRound

Method and Description

answerQuestion(de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User player, long gameId,

int roundNr, int answerNr)

Checks and stores the result for an answer submitted in a given round by a given player.

getPersonalChallengedGames(de.htwberlin.kba.gr7.vocabduel.user administration.export.model.User user)

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

removeWidowGames()

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

startGame(de.htwberlin.kba.gr7.vocabduel.user administration.export.model.User playerA,

de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User playerB,

java.util.List<de.htwberlin.kba.gr7.vocabduel.vocabulary_administration.export.model.VocableList> vocableLists)

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

startRound(de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User player, long gameId)

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

Field Detail

NR_OF_ROUNDS

static final int NR_OF_ROUNDS

Integer: Fix number of Rounds per game

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See Also

Constant Field Values

Method Detail

startGame

de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.RunningVocabduelGame startGame(de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User playerA,

de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User playerB,

java.util.List<de.htwberlin.kba.gr7.vocabduel.vocabulary administration.export.model.VocableList> vocableLists)

throws de.htwberlin.kba.gr7.vocabduel.user_administration.export.exceptions.InvalidUserException,

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.InvalidGameSetupException,

de.htwberlin.kba.gr7.vocabduel.game administration.export.exceptions.NotEnoughVocabularyException,

de.htwberlin.kba.gr7.vocabduel.user_administration.export.exceptions.UserOptimisticLockException,

de.htwberlin.kba.gr7.vocabduel.vocabulary_administration.export.exceptions.VocabularyOptimisticLockException,

de.htwberlin.kba.gr7.vocabduel.game administration.export.exceptions.GameOptimisticLockException

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.

Returns:

New RunningVocabduelGame instance based on the given params.

Throws

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.

de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.NotEnoughVocabularyException - The provided VocableLists do 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.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User user)

throws de.htwberlin.kba.gr7.vocabduel.game administration.export.exceptions.GameOptimisticLockException

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.

Throws

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

start Round

de.htwberlin.kba.gr7.vocabduel.game_administration.export.model.VocabduelRound startRound(de.htwberlin.kba.gr7.vocabduel.user_administration.export.model.User player, long gameId)

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throws de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.NoAccessException, de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.GameOptimisticLockException

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.

Returns

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.

Throws

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.User player,

long gameId,
int roundNr,

int answerNr)

throws de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.InvalidVocabduelGameNrException, de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.NoAccessException, de.htwberlin.kba.gr7.vocabduel.game_administration.export.exceptions.GameOptimisticLockException

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.

Returns:

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.

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.

removeWidowGames

int removeWidowGames()

 $throws \ de. htw berlin. kba. gr7. vocab duel. game_administration. export. exceptions. Game Optimistic Lock Exception$

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

Returns

0 in case of success

Throws:

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

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