Class Diagram for Quiz App

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student

username: string
major: string
seniorityLevel: string
email: string
errorMsg: string

login(username): void
register(username): void
checkIfUser(): boolean
enterUserInfo()
saveAsUser()

is a

logs in or registers as a

user

userList(student)
userQuizzes(quiz)

addQuiz(): userQuiz
removeQuiz(userQuiz): void
practiceQuiz(otherQuiz): void
viewStats():quizStatistics
logout(): void

for a

views

quizStatistics

username: string
uniqueName: string
dateTimePlayed: date
FinalScore: float
quizList(quiz)

delete(userQuiz): void
sortByUserDate(): quiz array
sortByUserScore(): quiz array
sortAlphabetically(): quiz array
highUserScore(): FinalScore, dateTimePlayed
firstUserScore(): FinalScore, dateTimePlayed
topThree100(): array
addQuizStats(): void
displayStats(): void

date

quiz

uniqueName: string
description: string
creator: user
totalPoints: int

addQuiz(): userQuiz
deleteQuiz(userQuiz): void
practiceQuiz(otherQuiz): void
noWords(word): totalPoints

gives

userResponse

username: string
response: char

selectAnswer()

takes input from

currentPracticeSession

questionList(questions)
correctResponse: boolean
numberCorrect: int
totalAnswered: int
totalNumber: int
dateTime: date

isRight(userResponse): boolean
displayQuestion(questions): void
displayCorrect(): void
displayScore(): void
calcScore(): numberCorrect int
finalScore(): FinalScore float
sessionStats()

records statistics in

prepares

word   **correctDefinition**   **incorrectDefinition**

N = 1..10   N   3N

add or remove

userQuiz

word: string
correctDefinition: string
incorrectDefinition: string

defineQuiz()
enterQuizInfo()
addWordsAndDefs()
addToQuizList()
deleteFromQuizList()
addToUserQuizzes()
deleteFromUserQuizzes()

pracitce

otherQuiz

wordlist(word)
DefList(correctDefinition)
IncorrectList(IncorrectDefinition)
quizList(userQuiz)

nonUserQuizzes()
getQuizInfo(userQuiz)
displayError()

determines which

questions

totalPoints: int
currentWord: string
currentDef: string
incorrectDef: string
correctAnswer: char

createQuestionList()