Team 10 Group Project Deliverable 1: SDPVocabQuiz App Design

Student

- userName : String
- major : String
- seniorityLevel : SeniorityLevel
- emailAddress : String

+ login() : boolean
+ register() : String
+ isUserNameAvailable() : boolean
+ getPracticableQuizzes() : List<Quiz>
+ getRemovableQuizzes() : List<Quiz>

Word

- wordName : String
- definition : String

+ populateOptions() : void

Quiz

- quizName : String
- description : String
- words : List<Word>
- incorrectAnswers : List<String>
- authorName : String
- createdDate : Calender

+ isQuizNameUnique(quizName : String)
: boolean
+ isWordUnique(wordName : String)
: boolean
+ addQuiz(quizName : String, description : String, words :
List<Word>, incorrectAnswers : List<String>,authorName :
String)
+ removeQuiz() : void

QuizSession

- quiz : Quiz
- practiceDate : Calender
- score : float
- student: Student

+ practiceQuiz(studentName : String,
quizName : String) : QuizSession
+ displayWord(qs : QuizSession)
+ validateAnswer(w : Word) : boolean
+ updateQuizScore(qs : QuizSession) :
QuizSession
+ composeQuiz(q : Quiz) :
OrderedList<SessionWord>
+ saveQuizScore(qs : QuizSession) : void

QuizStats

- quizName : String
- studentName : String
- quizFirstScore : float
- quizHighestScore : float
- quizHighestScoreDate : Calendar
- quizFirstScoreDate : Calendar
- first3StudentsToGet100 : List<String>

+ getStatsByStudent(studentName : String)
: OrderedList<QuizStats>
+ getStatsByQuiz() : OrderedList<QuizStats>

SessionWord

- word : Word
- incorrectAnswers : String[3]
- isUsedInQuiz : boolean

<<Enumeration>>
SeniorityLevel

Freshman
Sophomore
Junior
Senior
Grad

<<Utility>>
OperatingSystem

+ getDate() : Calender

<<Utility>>
Database

Views
Remove
Add
Practice
Contains
Removes
Updates
Contains