

Collaborative Quiz Class Diagram

User class contains information about individual users and the functions that they will perform regarding only user information such as login, logout, and register.

Quiz class includes an array of generated questionIds as well as creating user and course information. The functions create a new quiz, add questions to it, and return the questions.

Question class contains quiz questions and an array of answers that contains the answer and a boolean for if it is the correct answer along with an optional explanation of the answer. The creating user and related course are included here along with functions to add and return question information. A function for generating a list of randomized questions is also included.

Course class contains available courses that users can enrol in and an array of currently enrolled userIds. It contains functions which will return courses and update enrolment in courses.

Result class contains the quiz taken along with the questions and corresponding chosen answers. It also has the grade result and the time the quiz was taken. The functions generate results and check the quiz answers to get the grade.

