

Classes:

1. User:

- Attributes: UserID, UserName, Password, Email
- Methods: Login(), Logout(), Register()

2. Quiz:

- Attributes: QuizID, Title, Description, Questions[]
- Methods: StartQuiz(), SubmitAnswers()

3. Question:

- Attributes: QuestionID, Text, Options[], CorrectAnswer
- Methods: AddOption(), RemoveOption()

4. Scoreboard:

- Attributes: QuizID, UserScores[]
- Methods: AddScore(), GetTopScores()

Classification:

Strong Classes:

User

Quiz

Question

Scoreboard

Weak Classes:

It's crucial to ensure that the relationships and associations between the classes are well-defined. Weak classes may arise from associations that do not have a strong identity on their own.

