Entities:

1. User:

• Attributes: UserID, Username, Email, Password, Profile information (e.g., name, avatar), User type (e.g., student, teacher), Subscription status (if applicable).

2. **Quiz:**

• Attributes: QuizID, Title, Description, Duration, Difficulty level, Creator (UserID of the user who created the quiz), Creation date, Category or subject.

3. Question:

• Attributes: QuestionID, Text, Image (if applicable), Type (e.g., multiple-choice, true/false, open-ended), Difficulty level, Points.

4. Answer:

• Attributes: AnswerID, Text, IsCorrect (a boolean indicating if this is the correct answer), QuestionID (foreign key to associate the answer with a question).

5. QuizAttempt:

• Attributes: AttemptID, UserID, QuizID, Start time, End time, Score.

Relationships:

1. User - Quiz (Creator):

• Users can create quizzes, so there's a one-to-many relationship between User and Quiz. One user can create multiple quizzes.

2. User - QuizAttempt:

• Users can attempt quizzes, so there's a one-to-many relationship between User and QuizAttempt. One user can make multiple quiz attempts.

3. Quiz - Question:

• A quiz consists of multiple questions, so there's a one-to-many relationship between Quiz and Question. One quiz can have many questions.

4. Question - Answer:

• A question can have multiple possible answers, but typically, only one is correct. This is a one-to-many relationship between Question and Answer.

5. Quiz - QuizAttempt:

 Users attempt quizzes, resulting in QuizAttempts. This is a one-to-many relationship between Quiz and QuizAttempt. One quiz can have multiple attempts by different users.

6. **User - Subscription** (if applicable):

• If your application offers premium features or subscriptions, there may be a one-to-one or one-to-many relationship between User and Subscription entities.