CSA4002 - MANAGEMENT INFORMATION SYSTEMS FOR GREEN ENERGY

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6) Draw a Use case diagram to model for a quiz system. A user can request a quiz for the system. The system picks a set of questions from its database, and composes them together to make a quiz. It rates the user's answers and gives hints if the user requests it. In addition to users, we also have helpers who provide questions and hints. And also, administrators who must certify questions to make sure they are not too trivial, and that they are correct

Aim:

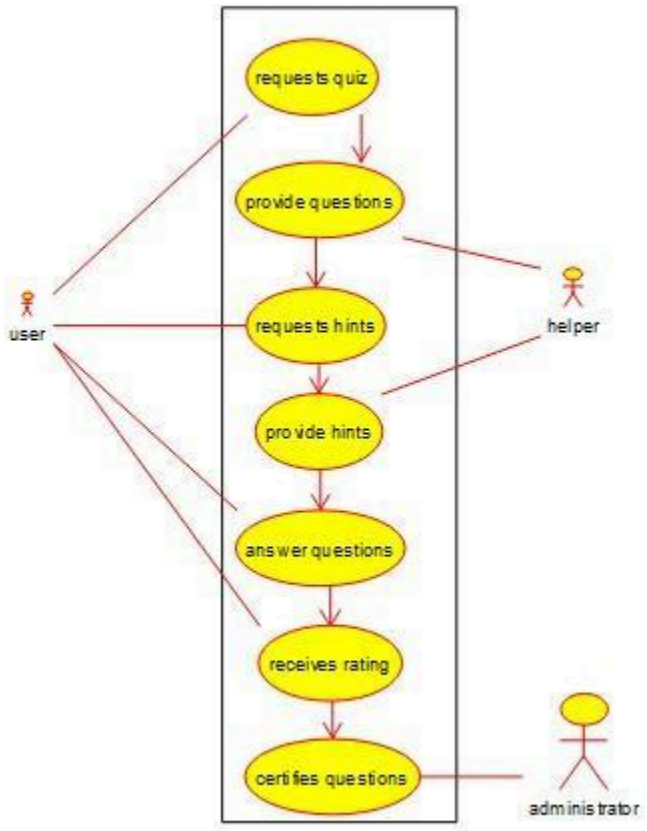
To design a **Use Case Diagram** for a **Quiz System**, representing interactions between users, helpers, and administrators while modeling key functionalities like quiz creation, answer rating, hint requests, and question management.

Procedure:

1. Identify main actors: User, Helper, Administrator, and System.
2. Define key use cases: Request Quiz, Generate Quiz, Rate Answers, Provide Hints, Add Questions, Certify Questions.
3. Establish relationships between actors and use cases using associations.
4. Add extend/include relationships where necessary, such as Hint Request extending Answer Rating.
5. Draw the Use Case Diagram using UML notation, placing actors outside and use cases inside the system boundary.
6. Validate that all interactions align with the quiz system's functionality.

Output:

USE CASE DIAGRAM



Result:

The Use Case Diagram successfully models the interactions within the Quiz System, showcasing how users request quizzes, receive hints, and get answers rated, while helpers contribute questions and hints, and administrators certify questions. The diagram clearly defines the relationships between actors and system functionalities, ensuring an effective quiz management workflow.