EXPERIMENT 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** that models the interactions between the **User**, **Helpers**, and **Administrators** in requesting quizzes, providing questions and hints, and certifying questions.

PROCEDURE:

1. Identify Actors

- **User**: Interacts with the quiz system to request and answer quizzes.
- **Helper**: Provides new questions and hints to the system.
- **Administrator**: Certifies the quality and correctness of questions in the database.

2. Define Use Cases (Functionalities)

- **User Actions**:
    - **Request Quiz**: User requests the system to generate a quiz.
    - **Answer Quiz**: User answers the questions provided.
    - **Request Hints**: User asks for hints for specific questions.
- **System Actions**:
    - **Generate Quiz**: System picks a set of certified questions and composes the quiz.
    - **Rate User**: Rates the user based on their quiz answers.
- **Helper Actions**:
    - **Provide Questions**: Helper submits new questions to the system.
    - **Provide Hints**: Helper submits hints for questions.
- **Administrator Actions**:
    - **Certify Questions**: Admin reviews, certifies, or rejects questions based on correctness and difficulty.
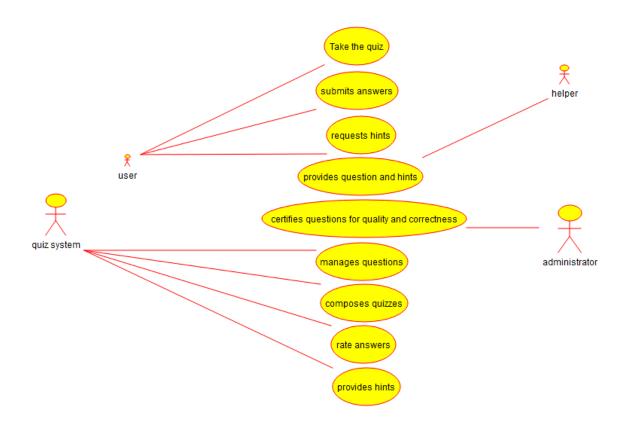
3. Draw the Use Case Diagram

- **Actors**: Represent **User**, **Helper**, and **Administrator** as stick figures.

- **Use Cases**: Represent the functionalities like **Request Quiz**, **Answer Quiz**, **Provide Questions**, **Certify Questions**, etc., as ovals.
- **Associations**: Draw lines connecting actors to their respective use cases.

OUTPUT:

USECASE DIAGRAM:

RESULT:

The **Use Case Diagram** for the **Quiz System** is successfully designed.
It illustrates the interactions between the **User**, **Helper**, and **Administrator** with the quiz system, including functionalities like requesting quizzes, answering questions, providing questions and hints, and certifying questions.

This diagram effectively models the system's processes and relationships, ensuring clarity and completeness.