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 and draw a **Use Case Diagram** for a Quiz System to represent the interaction between various actors (User, Helper, Administrator) and the system for effective quiz management.

PROCEDURE

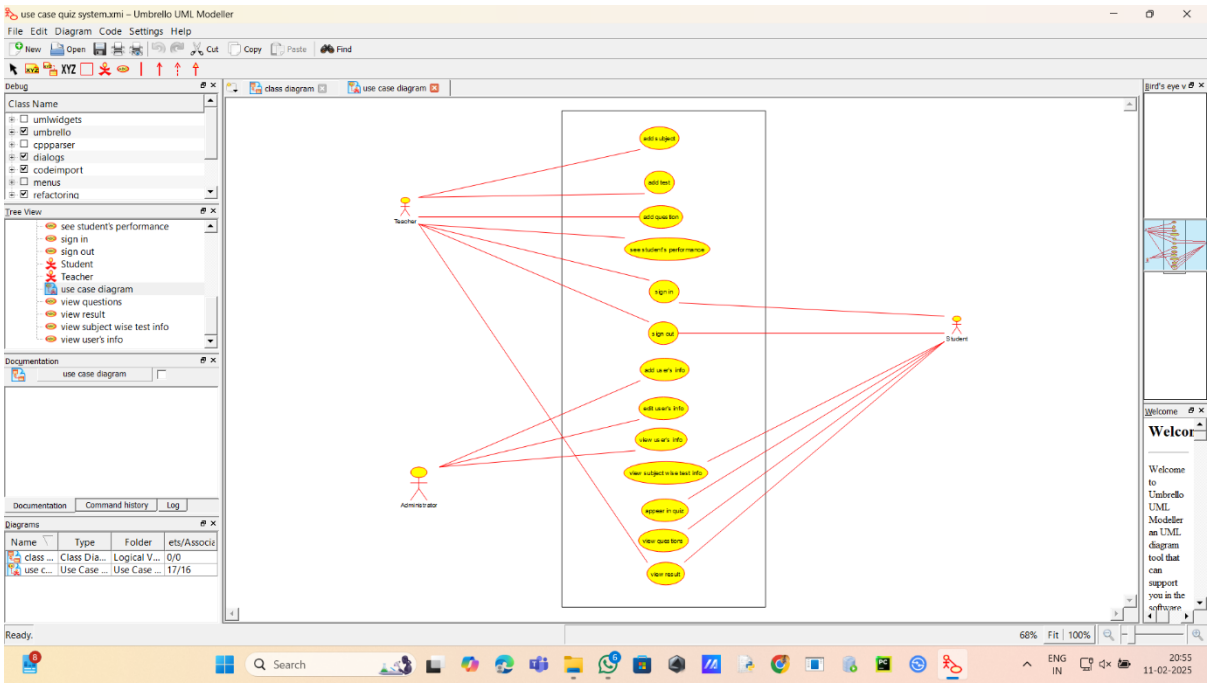
1. **Identify System Requirements**
   Understand the functionality of the quiz system, including how users, helpers, and administrators interact with it.
2. **Determine Actors**
   Identify the key actors:
   - **User**: Requests quizzes, answers questions, asks for hints.
   - **Helper**: Provides questions and hints.
   - **Administrator**: Certifies questions for correctness and relevance.
3. **List Use Cases**
   Identify the main actions performed by each actor:
   - Request Quiz
   - Generate Quiz
   - Answer Quiz
   - Provide Hint
   - Rate User's Answers
   - Submit Questions (Helper)
   - Certify Questions (Administrator)
4. **Define Relationships**
   Draw lines to show how each actor interacts with the corresponding use cases. Use associations like include and extend if necessary.
5. **Draw the Use Case Diagram**
   - Represent each actor as a stick figure.

- Represent each use case as an oval within the system boundary.
- Connect actors to use cases with lines.

6. **Validate the Diagram**
   Ensure the diagram covers all identified interactions and accurately represents the system's functionality.
7. **Document the Diagram**
   Save and label the diagram with proper notations for actors, use cases, and system boundaries.

OBSERVATION

USE CASE DIAGRAM



RESULT

A Use Case Diagram for the Quiz System is successfully designed, representing interactions between users, helpers, administrators, and the quiz system. The diagram helps to visualize and understand the system's functional requirements.