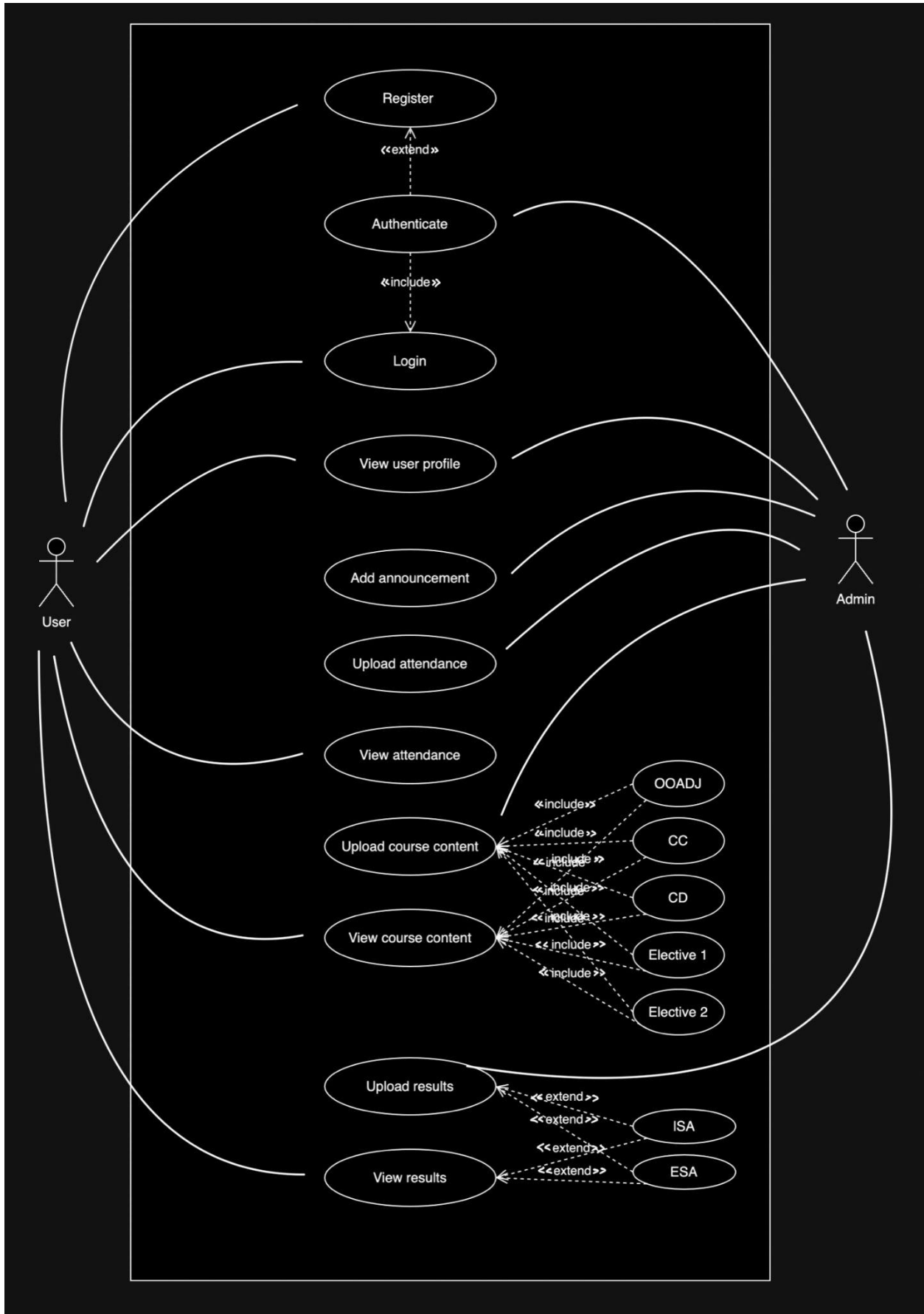## Problem Statement:

Basic Use Case Diagram for PESU Academy

Initially, the student has to register to PESU academy and can login once authentication is performed by the admin. Once the student has logged in, they can view their user profile, course content and their results. The course content is refreshed each semester and is required to have content from each of the courses the student chooses. If the student completes an ISA/ESA, then respective marks are uploaded on the results page, otherwise the previous results are displayed. The course content, results and announcements are uploaded by the admin.

Draw a use case diagram to model the behavior of the system and help capture the specified requirements using UML.

Explanation

Basic use cases:

1. The student can register, login, view user profile, view attendance, view courses, and view results.
2. It is the admin's role to authenticate the student, view the user profile, add announcements, upload attendance, upload course content and upload results.

Include relationships:

(The use case is mandatory and part of the base use case. It is represented by a dashed arrow in the direction of the included use case with the notation <<include>>)

1. Authentication is mandatory for login
2. Course content requires content from each course. Each course is part of the base use case of course content.

Extend relationships:

(The use case is optional and comes after the base use case. It is represented by a dashed arrow in the direction of the base use case with the notation <<extend>>.)

1. Registration could extend authentication
2. The results page defaults to the existing results, and ISA / ESA marks come after the exams are conducted (as an extension of results, hence extend is used in this scenario.)