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Computer Engineering Department
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Object-Oriented Modeling and Design 1st Assignment

Problem:
Assume that you have to design a "student administration" software system for the registrar's office. This system has operations such as **course creation** and **course enrollment (registration)**. An authorized official in the registrar's office can create courses to be offered in the current semester and set their attributes, such as the instructor, hours, classroom, quota, etc. The same official can also increase the class quotas.
Students can register for courses.

1. Write the use case <u>only</u> for the **course enrollment (registration) operation**.
    - Do not consider the user interface design. How data is entered and presented is not important in this assignment.
    - Assume that the student has already logged in to the system (you don't need to write login actions).
    - Assume that students may enter requested course numbers (CRN) one by one (not all courses in the same step). After they get the message (approved or not) about the previous course request, they may enter the new CRN.
    - Consider all possible alternatives.
    - Prepare the use case in a text form. Save it as a pdf file.

2. Analyze the system and create the **domain model** considering the stated operations.
    - Draw the model as a **UML class diagram**. You may draw the diagram by hand. In this case, please use a ruler and be neat. Save it as a pdf file.

SUBMISSION:
- Upload two files (use_case.pdf and domain_model.pdf) to Ninova by **23.00** on **Tuesday, March 5, 2024**.
- **Late submitted assignments are not accepted.** Do not risk leaving your submission to the last few minutes.
- Do not send your solutions by e-mail. We will only accept files uploaded to the official Ninova e-learning system before the deadline.
- **Cheating** will not be tolerated. Any cheating is subject to the university's disciplinary proceedings.
  Discussing how to solve a problem with classmates is allowed; however, **this assignment is not group homework. The actual solution should be an independent effort**.