

CS6110 OBJECT ORIENTED ANALYSIS AND DESIGN LAB

WEEK – 01

Sachin Raghul T
2019103573

1) Course Registration Problem:

Problem Statement

The university will require a new Course Registration system. At the beginning of each semester, professors at the university will register the courses that they are going to teach with the system. The system then will allow students to request a course catalogue containing a list of course offerings for the coming semester. Information about each course such as professor, department and prerequisites are included. The student then can select four-course offering. Once the registration process is completed for a student, the registration system sends information to the billing system so the student can be billed for the semester. For each semester, there is a period of time that students can change their schedule through adding or dropping courses. Professors must be able to access the system to indicate which courses they will be teaching and to see which students signed up for their course offerings.

Read the Problem Statement for the Course Registration case study.

- **Identify the following:**

- Actors & Description of the actor**

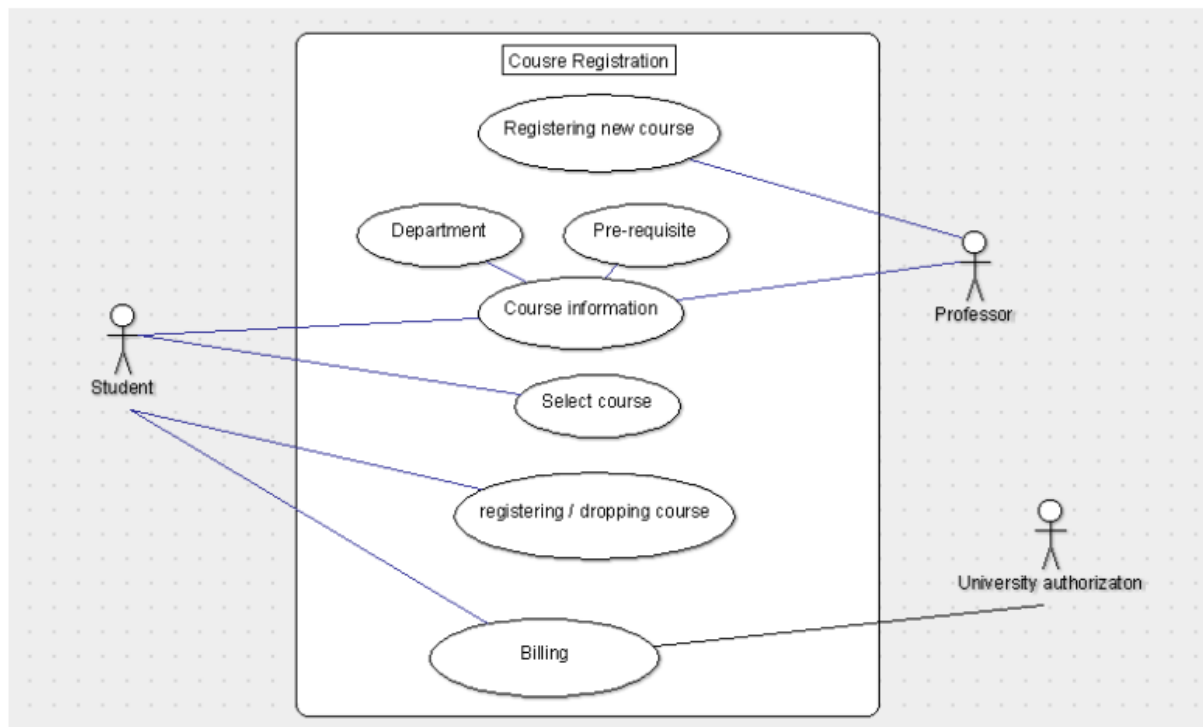
- Student: To learn the courses and build up his/her career.
- Professor: Professors are the ones who are going to teach the course.
- University authorization: To manage the university, student, professor, course and payment and so on.

- **Answer the following questions to find the use cases.**

For each actor you have identified what are the tasks the system would be involved in?

- Professor: Based on professor's qualification, can create new course in a university and teach to the student who have applied this course.
- Student: Student can select courses from a university.
- University's authorization: After student selected course, staff would check and confirmed it in a university.

Draw the use case diagram for the above scenario.



2) **Online Shopping**

Problem Statement

Online Shopping Paragraphs Corporation sells books and CDs using through online shopping. The customer adds items to her shopping cart. She may remove items or go to the check-out to make her purchases at any time. The customer reviews her purchases, chooses a payment method and pays. A sales employee at Paragraphs Corporation gets the order and purchase confirmation from the system, and sends the electronic order to the warehouse. The warehouse employee updates the order status. The customer may check the order status. Read the Problem Statement for the Course Registration case study.

- **Identify the following:**

Actors & Description of the actor

- Customer: to buy the product from the online shop.
- Employer: To manage the online shop, check to verified the payment and product.
- Warehouse's employer: To pack up the product and send to the customer's house.

- **Answer the following questions to find the use cases.**

For each actor you have identified what are the tasks the system would be involved in?

- Customer: Customer can order the product from the website and pay through the online with credit / debit card, UPI or cash on delivery. Customer can review/ rate about the product.
- Employer: Employer would verify the payment and product from the customer and gave the information about product and customer to the warehouse's employers.
- Warehouse's employer: Warehouse's employer would update the order status and delivered to the customer.

Draw the use case diagram for the above scenario.

