

Lab: UML Sequence Diagrams

Creating Sequence Diagrams

Introduction

For this assignment you will be creating a sequence diagram to model a student adding a class to his or her schedule. Here is an outline of the functionality you are to model:

- A student tries to add a class
- The system checks to make sure the student ID is valid
- The system checks to see if the student has fulfilled the prerequisites
- The system checks to see if the student has exceeded the credit limit
- If the previous checks succeed, the class is added to the student's schedule

Your sequence diagram must show at least the above interactions. You may add other relevant interactions to your sequence diagram if you wish.

Here are some classes/object instances you might find helpful for your sequence diagram:

- Student
- Class
- ClassSchedule
- CourseDatabase
- StudentDatabase

These classes are suggestions. You may use other classes, or omit some of these classes as long as you fulfill the requirements of the lab and your diagram makes sense. You must produce your diagram using LucidChart.

Instructions

This lab is an **individual** lab. You may not work with another person.

For this lab, you do not need to worry about what class triggers the sequence of events to start. You may draw an arrow coming in from the left to signify the origin of the call to the sequence diagram.

1. Decide what classes/objects/roles you will use to represent the operation.
2. Create a lifeline for each object.