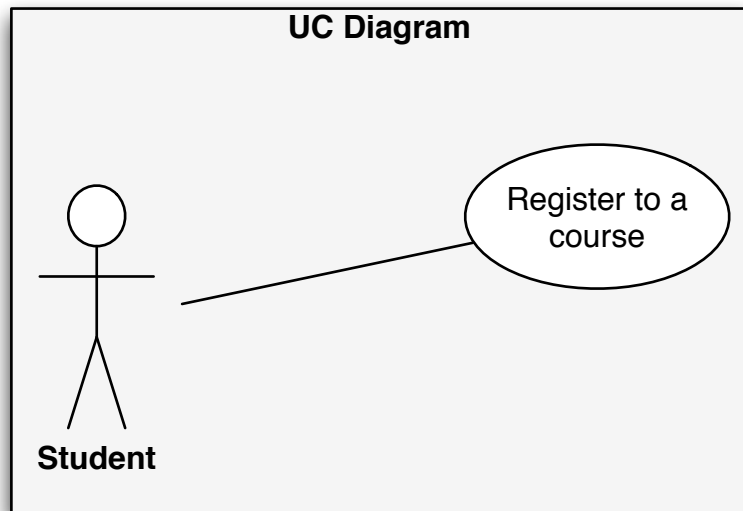


Afternoon Sessions

- Session 1 (Oct 18) : Modeling Use Case Diagram
- Session 2 (Oct 25) : Documenting Use Cases & Creating Activity Diagrams
- Session 3 (Nov 1) : Modeling Classes
- Session 4 (Nov 8) : Modeling Sequence Diagrams: Use case realization
- Session 5 (Nov 15) : Case study (tentative)
- Session x (Nov 22) : Tentative
- Session 6 (Nov 29) : Evaluation (tentative)

What is a use case?

"A use case is a sequence of actions performed by an actor"



Basic sequence of actions:

1. A student wants to register to a course
2. The student provides his name & student number to the registrar
3. The registrar verifies the student's eligibility
4. The student chooses a course from a list of available courses
5.
6.
7.

Use Case Types

1. Essential Use Case (Business Use Case)
 - Capture the essence of problems
 - Technology independent view of behavioral reqs.
 - High level of abstraction
 - More flexible and resilient to changes
2. System Use Case (Concrete Use Case)
 - A detailed analysis of behavioral reqs.
 - Describing how the system works

Example of System Use Case

Basic sequence of actions:

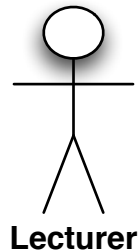
1. A student wants to register to a course
2. The student provides his name & student number to the login screen
3. The system verifies the student's eligibility
4. The student chooses a course from a list of available courses
5.
6.
7.

Use Case Diagram

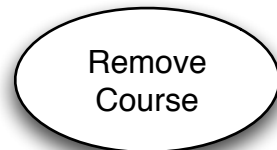
"Describe what a system/organization/
entity *should do* rather than *how to do it*"

Main components:

1. Actor



2. Use case



Essential in Creating UC Diagram

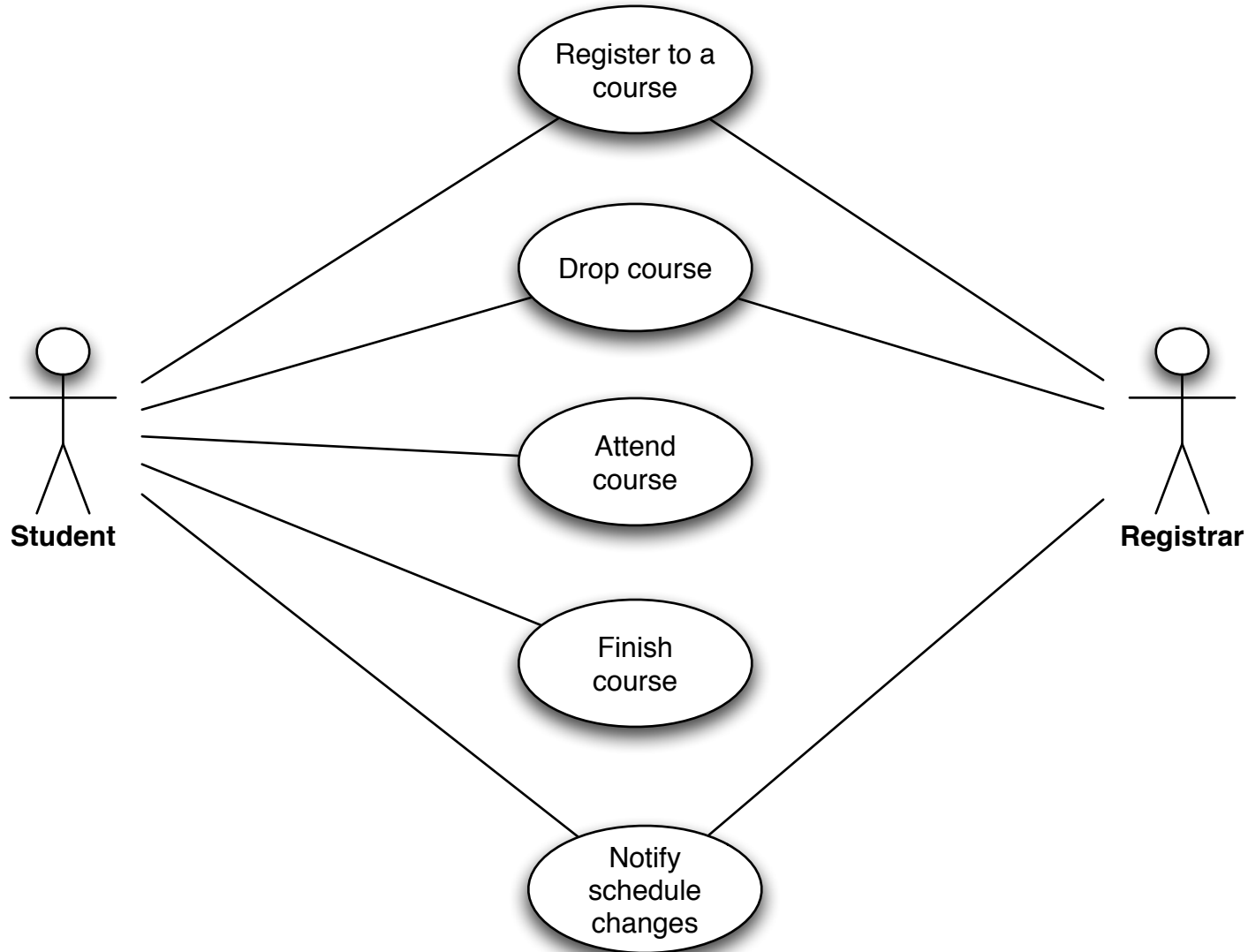
1. Identifying Actors

- People, external systems, other organizations
- Actors are always external to the system

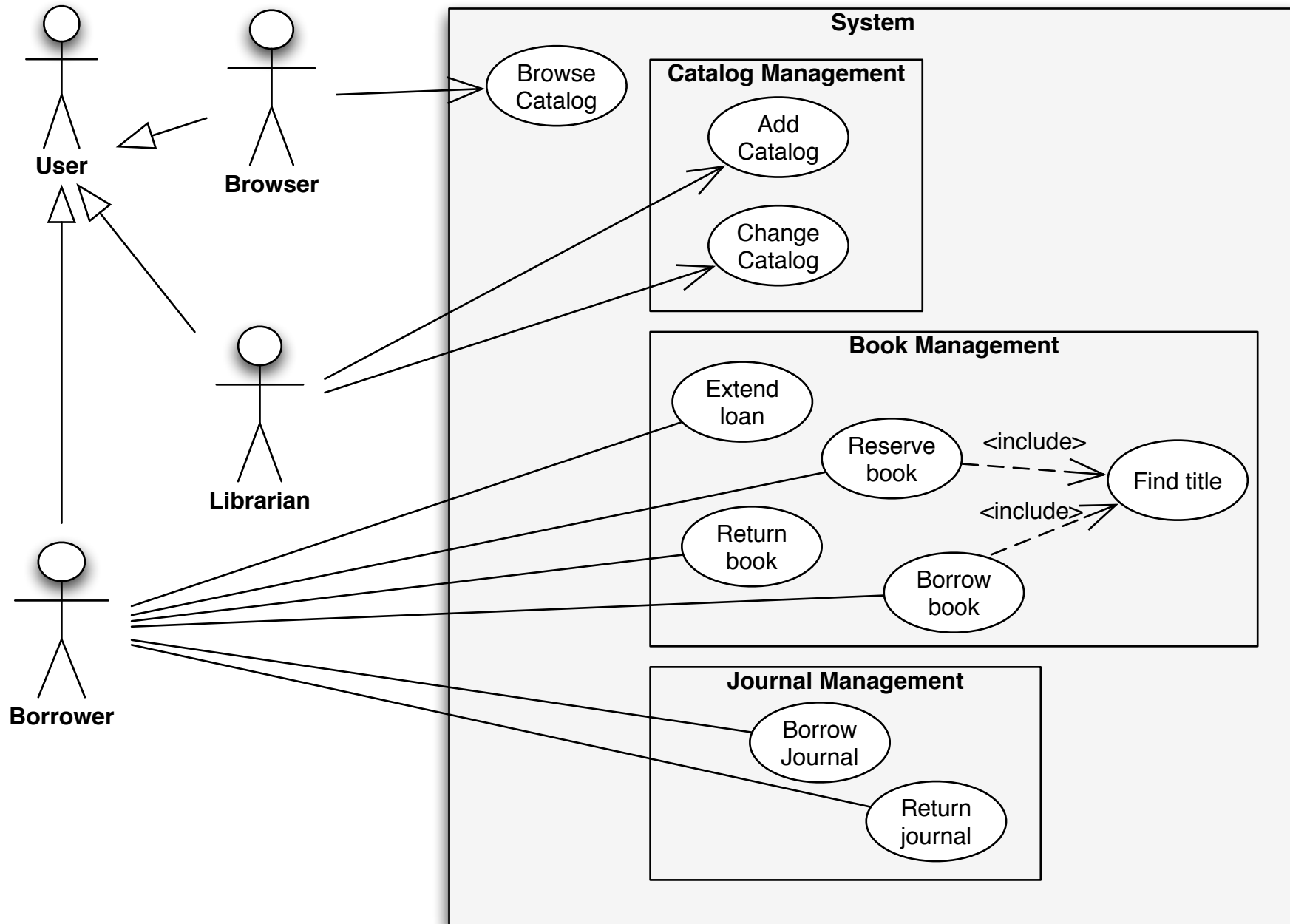
2. Identifying use cases

- Actors' main tasks (things they try to accomplish)?
- Actors' input to the system?
- Actors' needs from the system (e.g., information)?

Simple Example: Course Management



More Complex Example: Library System



Let's try creating a use case diagram
with ArgoUML

Practical Assignment

Model a use case diagram of a business domain:

- DVD Rental
- Car Rental
- Insurance
- Book Store
- Hospital
- etc.

- * In groups of two students
- * Create and save your models in ArgoUML
- * Send your models to **anugroho@liacs.nl**