

Department of Computer Science

Identifying Actors

→ Ask the following questions:

- ♥ Who will be a primary user of the system? (primary actor)
- ♦ Who will need support from the system to do her daily tasks?
- Who will maintain, administrate, keep the system working? (secondary actor)
- Which hardware devices does the system need?
- ♥ With which other systems does the system need to interact with?
- $\$ Who or what has an interest in the results that the system produces ?

→ Look for:

- ♥ the users who directly use the system
- salso others who need services from the system

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Documenting Use Cases

→ For each use case:

- $\$ prepare a "flow of events" document, written from an actor's point of view.

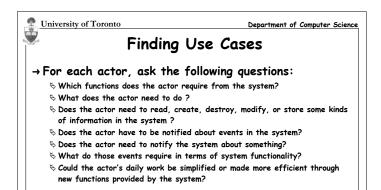
→ Typical contents

- ♦ How the use case starts and ends;
- Normal flow of events:
- ♦ Alternate flow of events;
- ♥ Exceptional flow of events;

→ Documentation style:

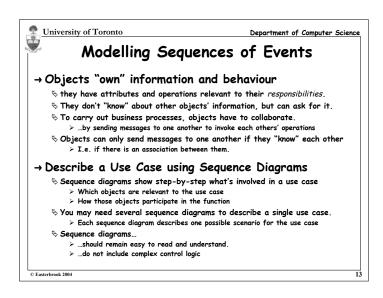
- ♦ Choice of how to represent the use case:
 - > English language description
 - > Collaboration Diagrams
 - > Sequence Diagrams

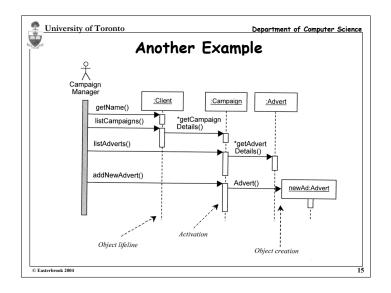
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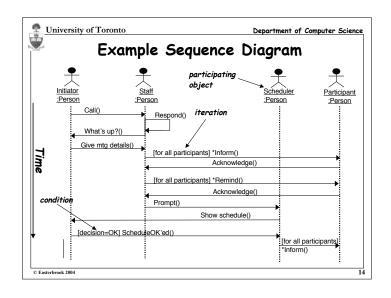


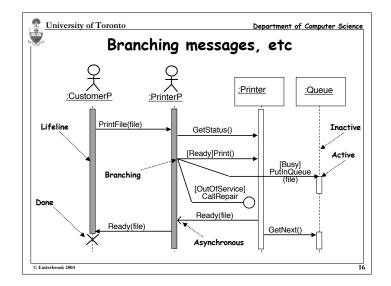
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University of Toronto Department of Computer Science Generalizations → Actor classes ⋄ It's sometimes useful to identify classes of actor > E.g. where several actors belong to a single class Record completion > Some use cases are needed by all member: in the class > Other use cases are only needed by some members of the class Staff & Actors inherit use cases from the class Change a client → Use Case classes Generalisation relations: Sometimes useful to identify a Read as: "is a member of generalization of several use cases or just "is a" Assign individual campaign Assign staff towork on a campaign Campaign Manager Assign team of st © Easterbrook 2004











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Don't forget what we're modelling

→ During analysis

🖔 we want to know about the application domain and the requirements

- ...so we develop a course-grained model to show where responsibilities are, and how objects interact
 - Our models show a message being passed, but we don't worry too much about the contents of each message
 - > To keep things clear, use icons to represent external objects and actors, and boxes to represent system objects.

→ During design

- - > E.g. show the precise details of each method call.

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