

What Must a Requirements Model Include?

Must contain an overall description of functions.

Must represent people, physical things and concepts important to the analyst's understanding of what is going on in the application domain

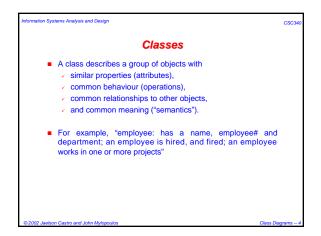
Must show connections and interactions among these people, things and relevant concepts.

Must show the business situation in enough detail to evaluate possible designs.

Should be organized in such a way that it is useful later on during design and implementation of the software.

Hence a need for more detailed models than use cases!!

Hence the need for Class Diagrams!



Finding Classes

Finding Classes

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Finding Classes

Look for nouns and noun phrases in the description of a use case;

These are only included in the model if they explain the nature or structure of information in the application.

Don't create classes for concepts which:

Are beyond the scope of the system;

Refer to the system as a whole;

Duplicate other classes;

Are too vague or too specific (few instances);

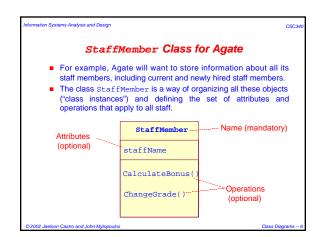
Finding classes in other sources:

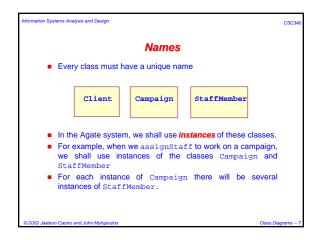
Reviewing background information;

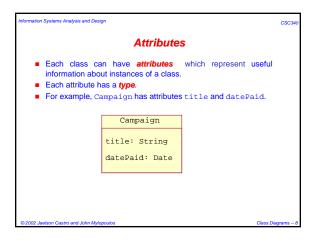
Users and other stakeholders;

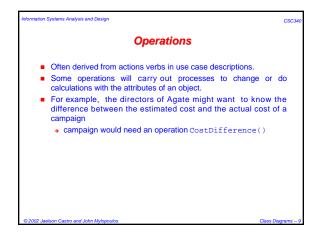
Analysis patterns;

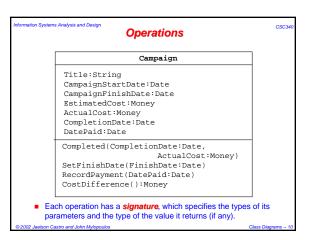
CRC (Class Responsibility Collaboration) cards.

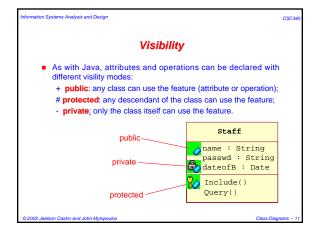


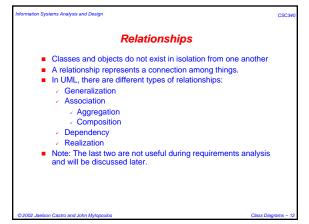


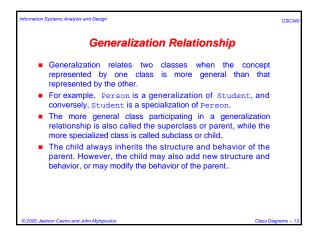


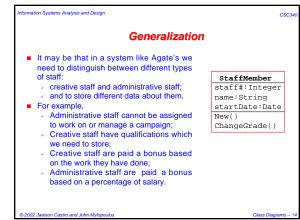


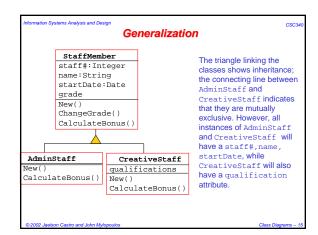


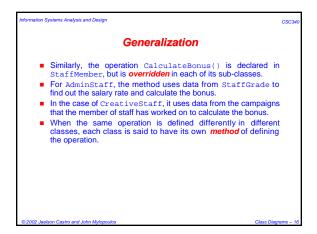


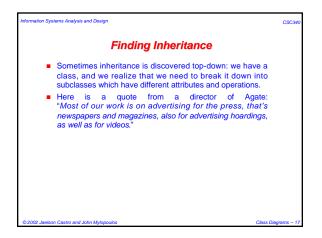


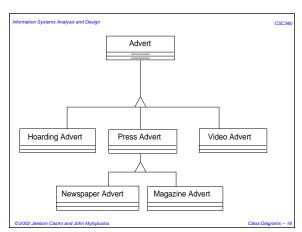


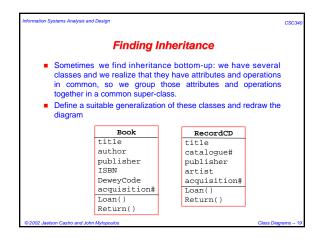


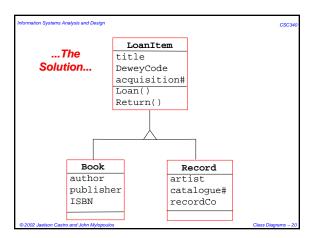


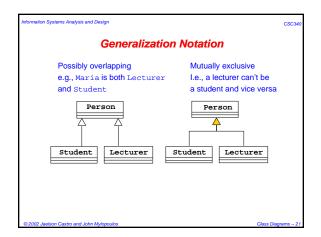


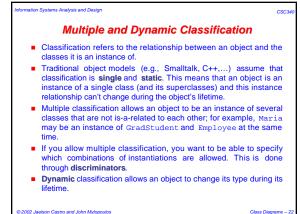


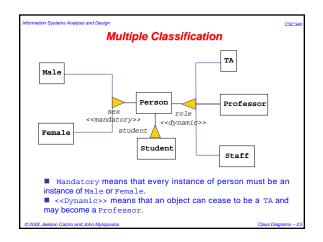


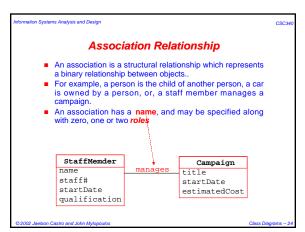


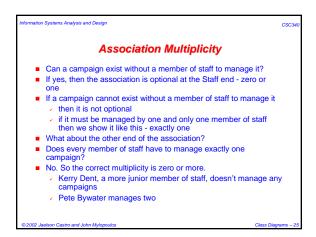


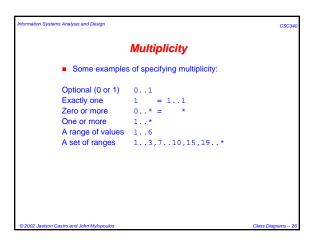


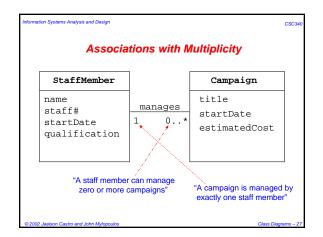


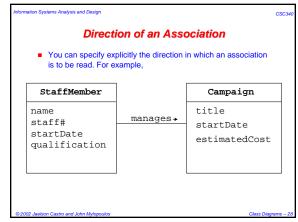


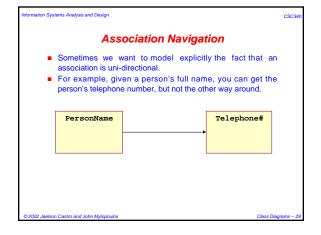


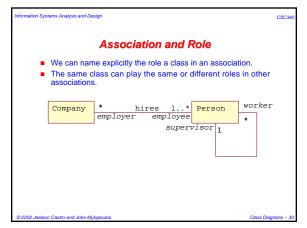


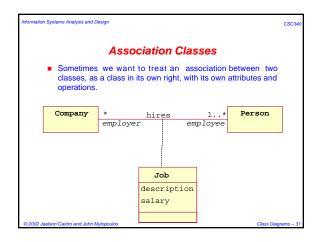


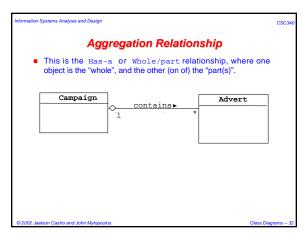


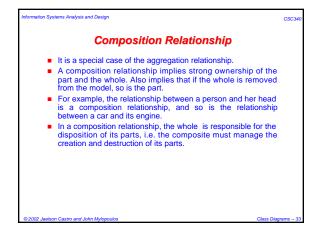


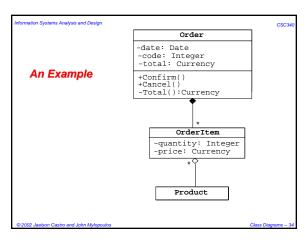


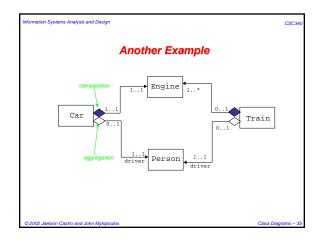


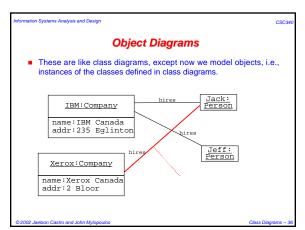












## **Additional Readings**

- [Booch99] Booch, G. et al. The Unified Modeling Language User Guide, Addison-Wesley, 1999. (Chapters 4, 5, 8, 9, 10.)
   [Fowler97] Fowler, M. Analysis Patterns: Reusable Object Models, Addison-Wesley, 1997.
   [Bellin97] Bellin, D et al. The CRC Card Book. Addison-Wesley, 1997.