Software Design & Modelling 5

# What is UML?

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# Modelling Language Genealogy:

A diagram of a data flow

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# UML Diagrams:

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# Software Model:

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# UML Class Diagram:

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# Classes:

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# Associations and Multiplicity:

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# Many-To-One Associations:

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# One-To-One Associations:

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## A more complex example:

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# Association Classes:

A diagram of a student

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# Reflexive Associations:

A diagram of a course

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# Directionality in Associations:

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# Generalization:

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## Avoid unnecessary generalization:

A diagram of a recording

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## Avoid instances change their type or class:

A diagram of a structure

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## Avoid having instances change class:

A diagram of a student

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# Object Diagrams:

A diagram of a company

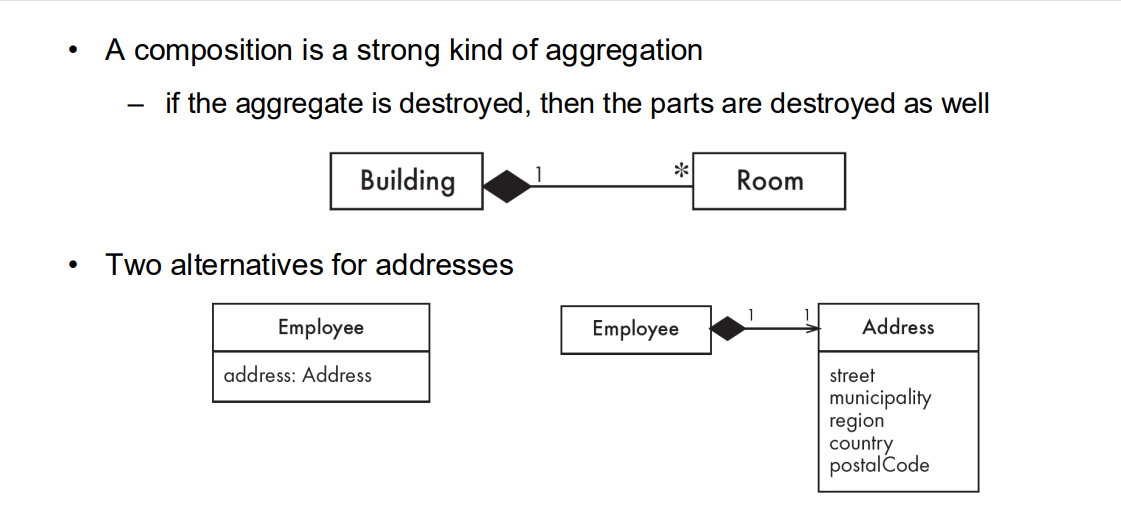
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# Aggregation:

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# Composition:



# Propagation:

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# Interfaces:

A diagram of a machine

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# Notes and Descriptive Texts:

A close-up of a computer

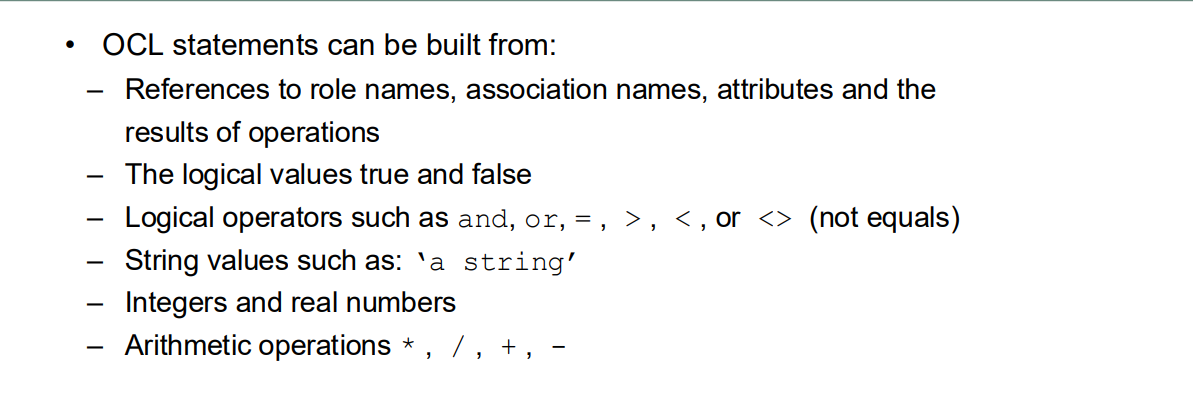
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# Object Constraint Language (OCL):

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## OCL Statements:



# Suggested Design Approach:

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# Identifying Associations and Attributes:

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