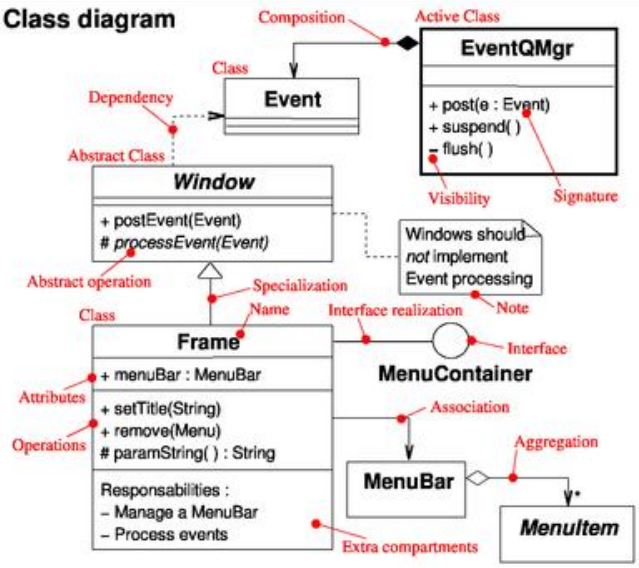
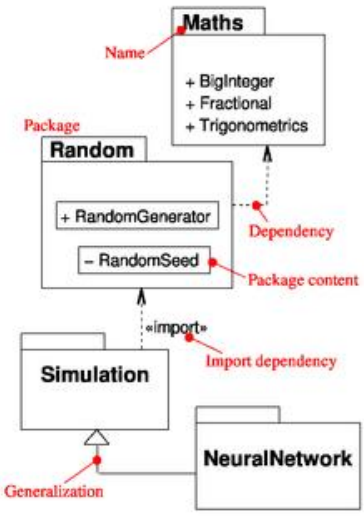
UML Quick Reference Card

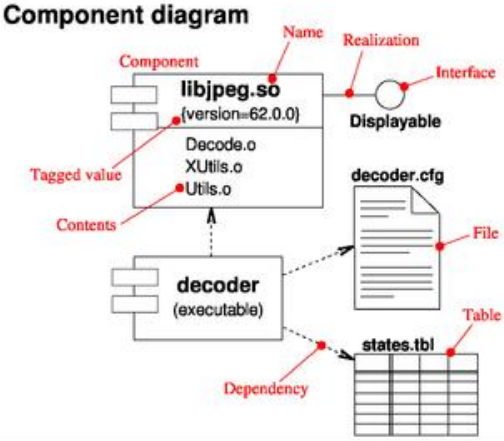
Class diagram



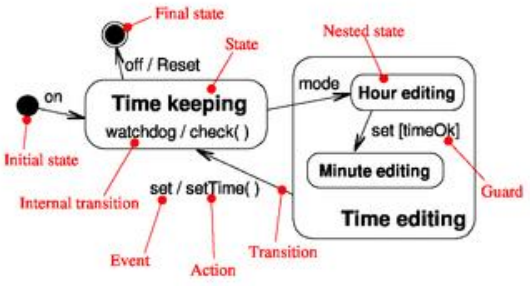
Collaboration diagram



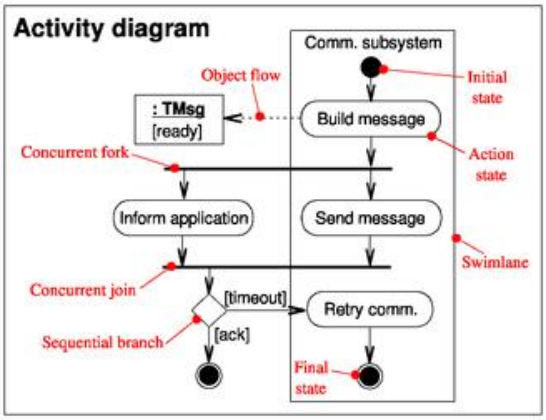
Component diagram



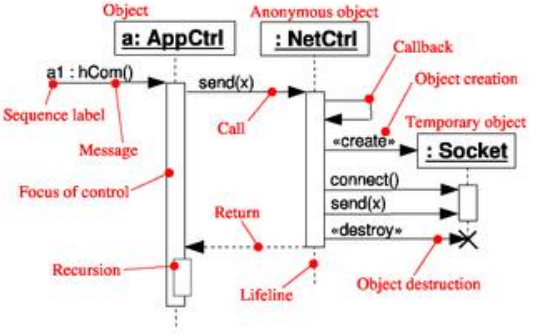
State diagram



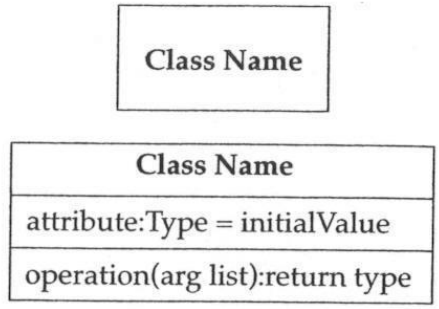
Activity diagram



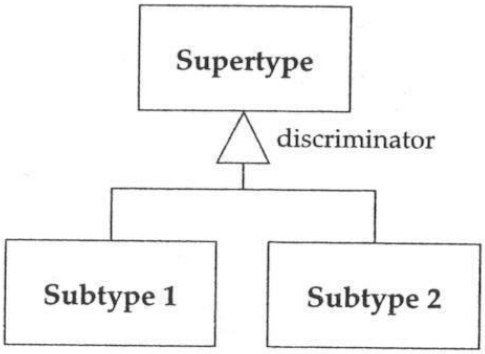
Sequence diagram



Class



Generalization



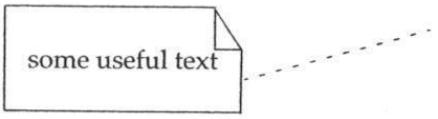
Constraint

{description of constraint}

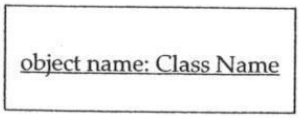
Stereotype

«stereotype name»

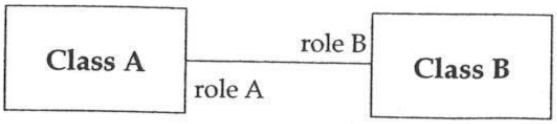
Note



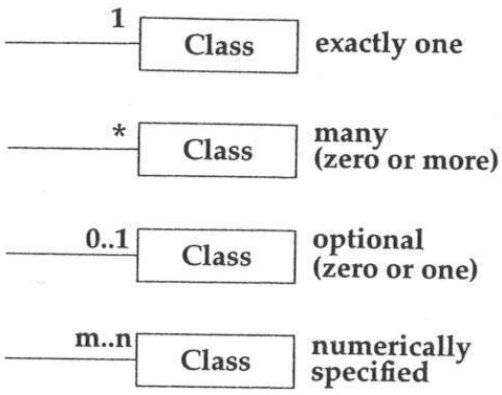
Object

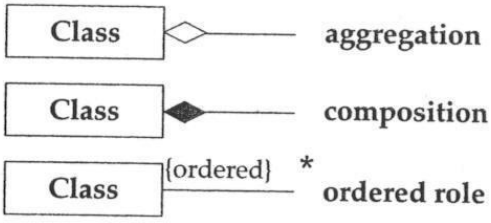


Association

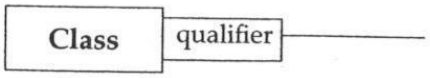


Multiplicities

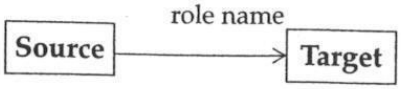




Qualified Association

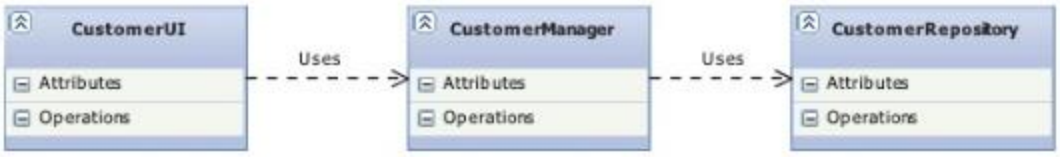


Navigability



Dependency

Dependency



Dependency - Weaker form of relationship which indicates that one class depends on another because it uses it at some point of time.
Dependency exists if a class is a parameter variable or local variable of a method of another class.

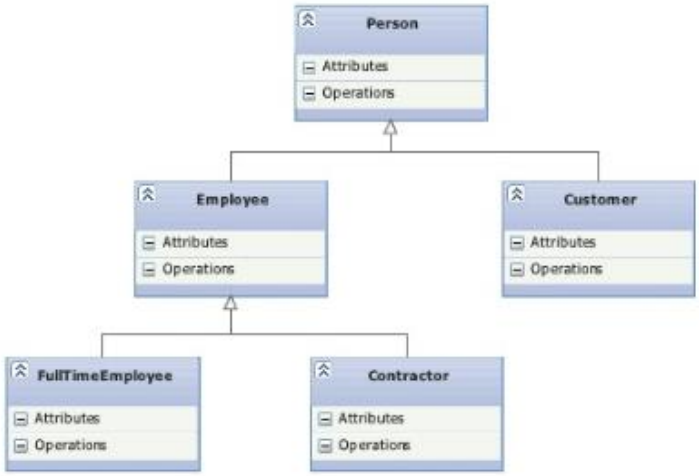
Association, Aggregation and Composition

Association – Loose form of relationship (Student can enroll in multiple Course, and A Course can have multiple Student)

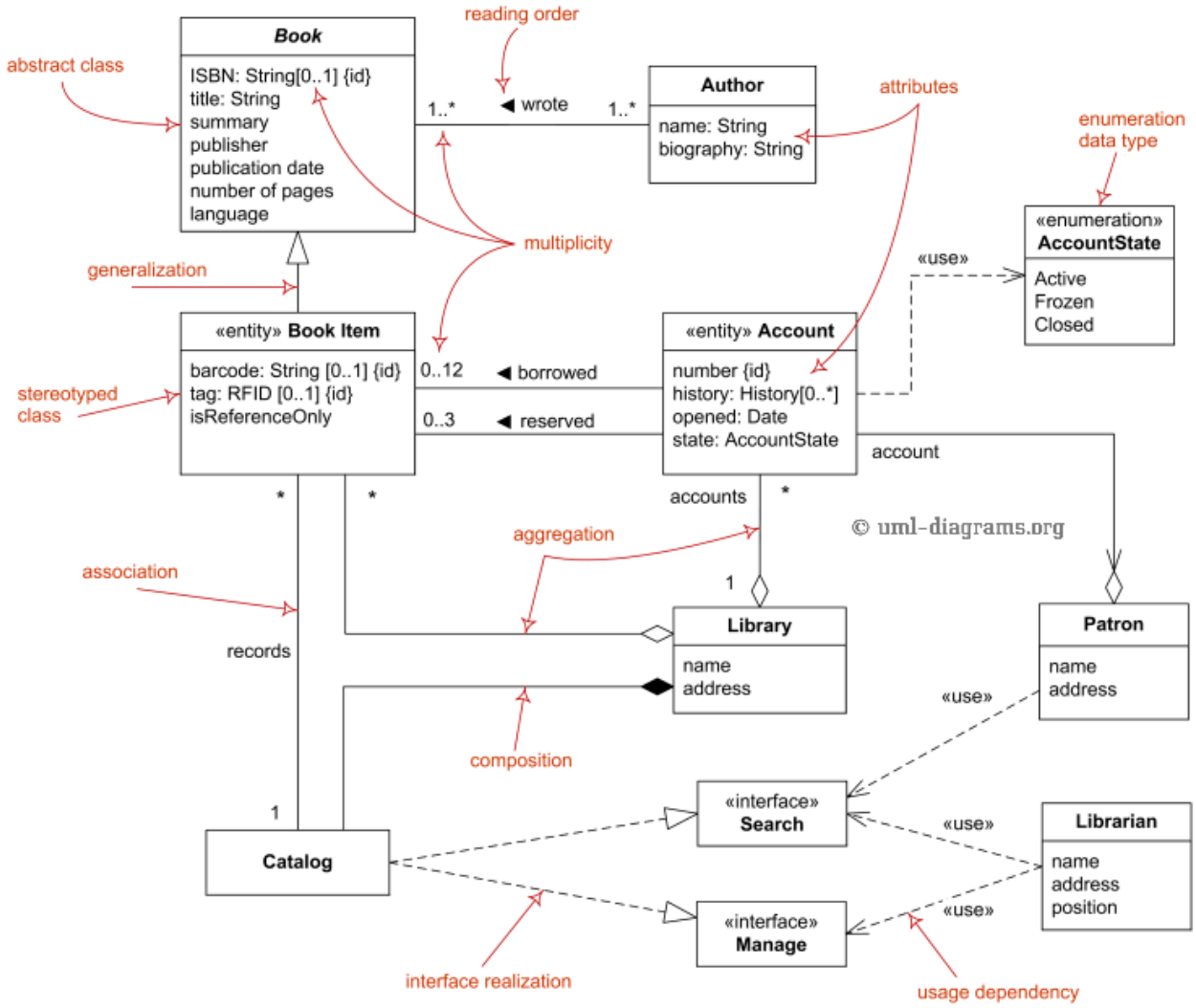
Aggregation - Whole part relationship. Part can exist without Whole.
(Engine can exist even if Car is destroyed, the same Engine could be used in a different Car)

Composition – Stronger form of whole part relationship. Part can not exist without Whole.
(OrderDetail can not exist if Order is deleted. If Order is deleted, OrderDetail also gets deleted)

Generalization / Inheritance



Class Diagram Example



Sequence Diagram Example