Unified Modeling Languages (UNIL)

- IIIL is a non-proprietary specification language for objet modeling
- It is a general-purpose modeling language that includes a standardized graphical notation used to create an abstract model of a system.

Types of UML Diagrams

Two main components of a use case diagram.

Actor

Use Case

an external view of the system that represents some action

the user might perform in order to complete a task.

A liver placing an order

Browse Catalog and Select Items & Sentch for items

Call Sales Person

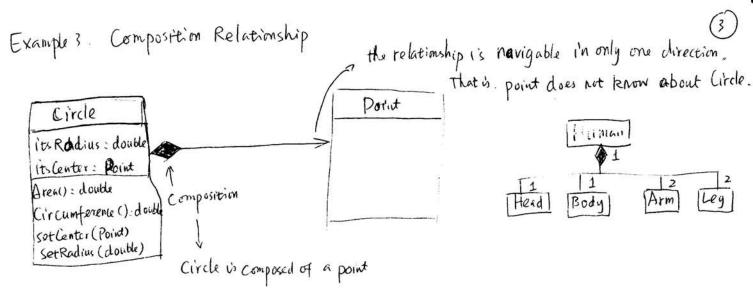
Crive Shipping Info

Crive Payment Info

Arran head is optional and is Get Confirmation# often used to indicating the direction of

the initial invocation of the relationship. The arrowheads can be sometimes confused with data flow in a complex system

2. Class Diagrams: models class structure and contents using design elements such as classes, packages and objects. It also displays relationships Such as containment, instaheritance, associations and others. One class can be related to another Example 1: Association relationship. one-to-one Employee one-to-many one-to-me or more one - to - exactly n rolationship order tetlexive , Association association date Recived : Data Castomer - classhane is Prepaid: Boolean raine, string 7 attributes number: String address = string - operation. Multiplicity dispatch() CreatitRating()+ close() Many-valued Mandatory Libratian The multiplicity of the association denotes the number of objects Employer Employee that can participate in the relationship. Supe, Market For example, an order object can be associated to only one Customer, Customer but a customer can be associated to many orders. Generalization relationship. (or inheritance relationship) Ammal (astome name: String Amphibian Mammal Reptile address: String credit Rating () COW Generalization Corporate Customer Personal Customer Contact Nrape : String Credit Card# : Long String Credit Rating: Stoing creditlimit · Double remind () bill For Month ()



Composition relationships are a strong form of containment or aggingation, be cause composition also indicates that the lifetime of Point is dependent upon Circle. If Circle is destroyed, Doing will be destroyed with it.

