Applying Use Case Driven Object Modeling with UML: An anytherde-commerce Example * Describe system væge in context of object model. Somain objects (e.g., cetalog, purchen forder, ...)
[foundary objects (e.g., screens gthe system, ...) Dynamic O GUI prototype > 7000 sequence diagram
Rebustuss
diagram progrem > Code disgram Streamlined approach to S/W development) roces fundamentals: team has identified and described all thrusage scenarios for the system to finds

" taken hard look for heusake abstractions (classes) that participate in multiple scenarios.

" thought about profilem domain and has identified belonging classes

" varified all functional requirements of system milestones for an OD places should include . " varified all functional requirements of system to identified abstractions, carefully throught about system behavior's allocation to identified abstractions, laking into consideration good design principles (minimizing compling, meximizing coheston, generality, and sufficiency, and soforth) There are four fundamental requirements of a process: - flerith to for styles and binds of frollens - support the way people really work (protolyping, iterative incremental development, ---) - so wedy to serve as guide for incoherienced members " copose precode products of a development effort to management

A organize the use cases into groups. Cepture this organization in a package diagram. * perform robustness analysis. For each use case;
-identify a first out cut of objects that accomplish the stated scenario. Use the UML objectory stereotypes. * generalization (supercless) subclass)

* aggregation (whole part subpart) * nouns and nouns phrases become objects and attributes.

* verts and vert phrases become operations and associations. * possessive phrases indicate that nouns should be attributes rether than object. donot start assigning multiplication to associations right of the bet. * Domain modeling = " " do now and velt analysis so exhaustive " " assign sperations to classes without apploring use causand sequence diagrams.
" " obtinize your code for heusebility felore making sure you have satisfied users heping.
brefer to use simple aggregation (has by reference) relation than composition (has by reference) relation than composition (has by reference). pleanered do not presume specific implementation strategy without modeling the problem - do not use hard-to-understand names for your classes. do not jump directly to implementation constructs, such as friend relationships and parametrized a " create one-for-one nepping between domain classes and relationship RDBMS tables. " perform " premeture patterprization;" which involves building cool solutions, from patterns, that have little or no connection to user problems. Scenh Results Catalog Review Philippen Stock Priesthedale Groter Groter Custome Review

the goal is to account for everything the user might do. It each package should correspond with a chapter, or at least a major section, in your user manual. * you should = write usage scenario text (actions the the ususare taking and the responses that the system generates.) - describe usage (what the system will do) keep explicit names for your toundary objects (with which actors will be interacting)
write using user's beisbective - white the use cases a little fit in detail. - take cope of user interface describe user interactions and system responses give text for alternative courses y action boens on what is "inside" a use case (how you get there or what happens afterned) not spend a a month deciding whether to use includes or extends. login Search by author ping clark

I mipping station

Mip order

Thisper Carch order Check out Received shipment inventory cleans cleans T receiving station

Robustness diegram saysado symbols: C entity object (objects from domain model) O control object (controllers that good "glue" between boundary objects and entity objects) Rules: O Actors can only talk to boundary objects. (2 ->+0)

D boundary objects can only talk to controllers and actors. (+0 ->0) 3 entity objects can only talk to controllers. (O) 4) Controllers can tell to boundary objects, entity objects, and other controllers, futnot to boundary object - hours wert can talk to other nouns, verts. controller - vert Keydements of sequence diagrams: - allocate behavior amore boundary, entity and control objects associated - show the detailed interactions that occurs over line among the object associated with each of your use cases.

- finalize the distribution of operations among classes. typs of elements on a sequence diegram: 1) The test for the course of action of the use care (3) messages (9) Methods (operations) (http://www.iconissw.com/RoseScripts.Ltml) drawing sequence diagrams; O copy use can text to the left margin of sequence diagram (2) add the entity objects (instance of class) (3) add the boundary objects & and actors. (9) which method go on which classes (decide).

The behavior among the collaborating objects.