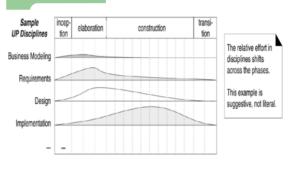


Review on UP

UP Disciplines and phases

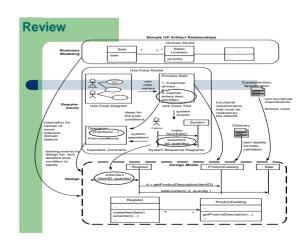




Customize UP, The UP Development Case

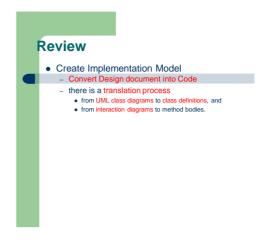
Table 2.1. Sample Development Case. s - start; r - refine

Discipline	Practice	Artifact	Incep.	Elab.	Const.	Trans.
		Iteration →	I1	E1En	C1Cn	T1T2
Business Modeling	agile modeling req. workshop	Domain Model		s		
Requirements	req. workshop vision box exercise dot voting	Use-Case Model	s	r		
		Vision	s	r		
		Supplementary Specification	s	г		
		Glossary	s	r		
Design	agile modeling test-driven dev.	Design Model		s	r	
		SW Architecture Document		s		
		Data Model		s	r	
Implementation	test-driven dev. pair programming continuous integration coding standards					
Project Management	agile PM daily Scrum meeting					

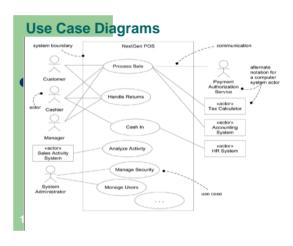


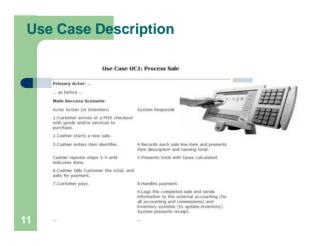
Review Do Use Case Modelling (first part) use case description Use case diagram Supplementary document Create Domain Model based on requirements and use cases Do Use Case Modelling (second part) create System Sequence Diagrams and identify system operations Clarify system operations with Operation Contracts Conduct Design Modelling Assign "doing" responsibilities with Interaction Diagrams (Communication and Sequence Diagrams)

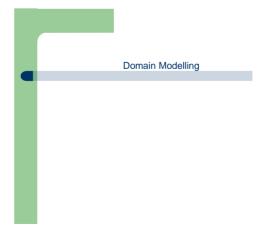
- Assign "knowing" responsibilities with Design Class Diagrams

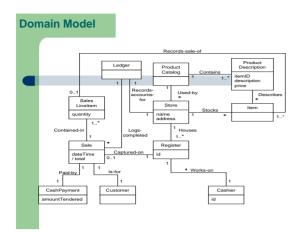


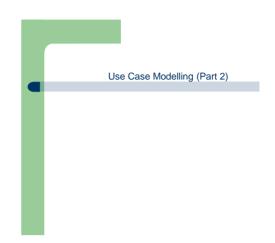
Use Case Modelling (Part 1)





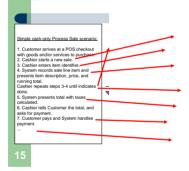






SSD vs. use cases

 An SSD shows system events for one scenario of a use case, therefore it is generated from inspection of a use case.



Example

Contract CO2: enterItem

Operation: enterItem(itemID: ItemID, quantity: integer)

Cross References: Use Cases: Process Sale

There is a sale underway.

Postconditions:

- A Salestinettem instance sli was created instance creation.

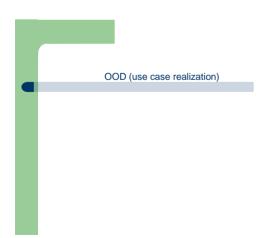
- sli was associated with the current Sale (association formed)

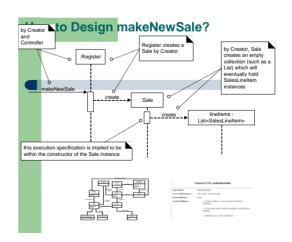
- sli.quantity became quantity (attribute modification)

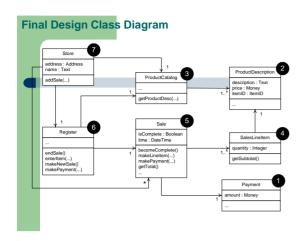
- sli was associated with a ProductDescription, based on itemID match (association formed)

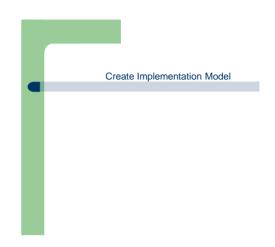
The categorizations such as "(instance creation)" are a learning aid, not properly part of the contract.

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public class SalesLineItem { private int quantity; private ProductDescription description desc, int qty) { ... } public Money getSubtotal() { ... } } SalesLineItem quantity: Integero getSubtotal(): Money getSubtotal(): Money Text productDescription desc, int qty) { ... } productDescription description descriptio

