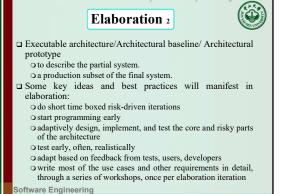
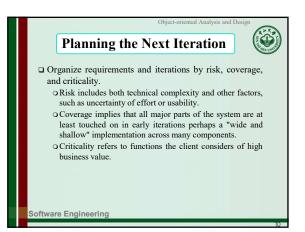


# Elaboration 1

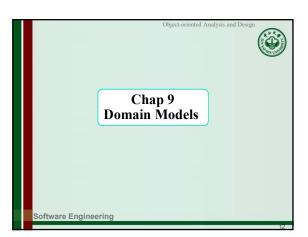
- Elaboration: Build the core architecture, resolve the highrisk elements, define most requirements, and estimate the overall schedule and resources.
- Elaboration is the initial series of iterations during project
   the core, risky software architecture is programmed and tested
   the majority of requirements are discovered and stabilized
  - O the major risks are mitigated or retired
- Elaboration often consists of two or more iterations; o each iteration is recommended to be 2~6 weeks
- □ Elaboration is not a design phase or a phase when the models are fully developed in preparation for implementation.
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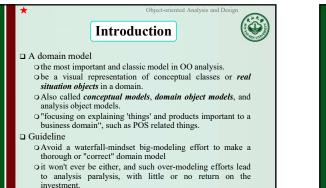


Object-oriented Analysis and Design			
Artifact	Comment		
Domain Model	This is a visualization of the domain concepts; it is similar to a static information model of the domain entities.		
Design Model	This is the set of diagrams that describes the logical design. This includes software class diagrams, object interaction diagrams, package diagrams, and so forth.		
Software Architecture Document	A learning aid that summarizes the key architectural issues and their resolution in the design. It is a summary of the outstanding design ideas and their motivation in the system.		
Data Model	This includes the database schemas, and the mapping strategies between object and non-object representations.		
Use-Case Storyboards, UI Prototypes Software Eng	A description of the user interface, paths of navigation, usability models, and so forth.		

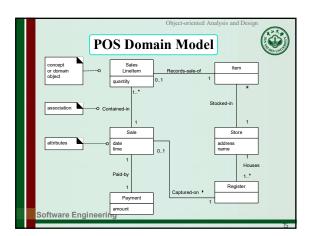


POS Risk List				
Rank	Requirement (Use Case or Feature)	Comment		
High	Process Sale Logging 	Scores high on all rankings. Pervasive. Hard to add late.		
Medium	Maintain Users	Affects security subdomain		
Low				

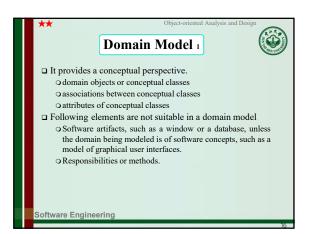


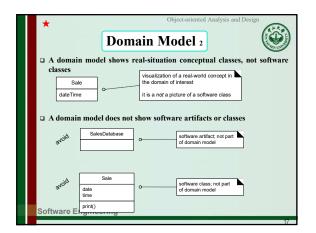


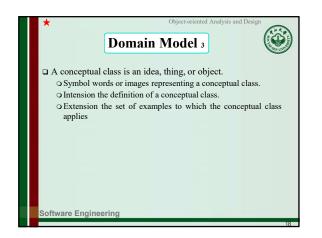
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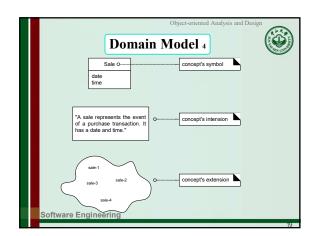


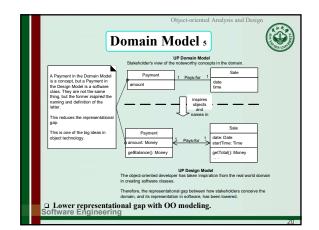
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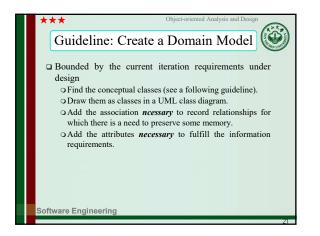






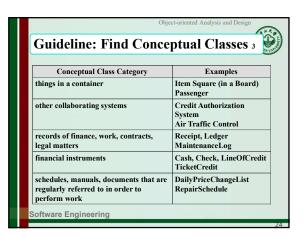




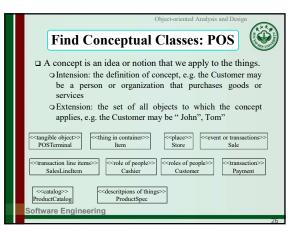


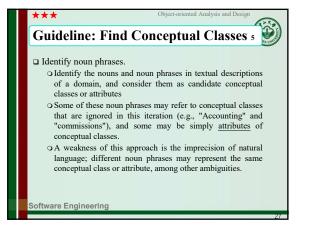
★★ Object-oriented Analysis	and Design
Guideline: Find Conceptual Cla	asses 1 💓
<ul> <li>Reuse or modify existing models.</li> <li>Use a category list.</li> <li>Identify noun phrases from the case text</li> </ul>	
Conceptual Class Category	Examples
business transactions Guideline: These are critical (they involve money), so start with transactions.	Sale, Payment Reservation
transaction line items Guideline: Transactions often come with related line items, so consider these next.	SalesLineItem
product or service related to a transaction or transaction line item Guideline: Transactions are for something (a product or service). Consider these next.	Item Flight, Seat, Meal
where is the transaction recorded?	Register, Ledger FlightManifest

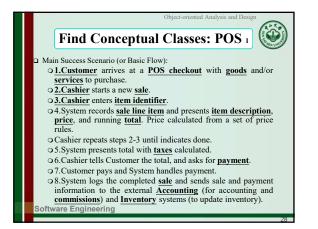
	Object-oriented And Guideline: Find Conceptual	ANT. A
	Guidenne. Find Conceptuar	
	Conceptual Class Category	Examples
	place of transaction; place of service	Store Airport, Plane, Seat
	noteworthy events, often with a time or place we need to remember	Sale, Payment, Flight
	physical objects Guideline: This is especially relevant when creating device-control software, or simulations.	Item, Register Board, Piece, Die Airplane
	descriptions of things Guideline: See p. <u>147</u> for discussion.	Product Description Flight Description
	catalogs Guideline: Descriptions are often in a catalog.	Product Catalog Flight Catalog
	containers of things (physical or information)	Store, Bin Board Airplane
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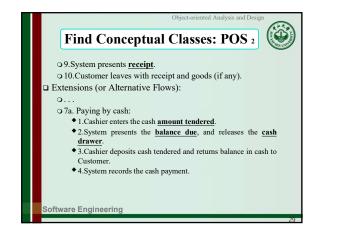


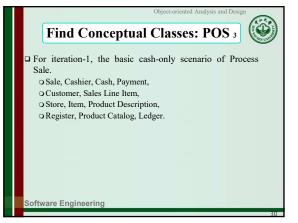
Object-oriented Analysis and Design				
Guideline: Find Conceptual Classes 4				
Conceptual Class Category	Examples			
Physical or tangible object	POST, Airplane			
Roles of people	Cashier, Pilot			
Abstract noun concepts	Hunger, Acrophobia			
Organizations	Sales Department			
Events	Sale, Meeting, Flight			
Process	SellingAProduct, Booking			
Rules and policies	RefundPolicy			
Software Engineering				

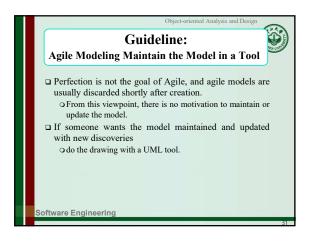


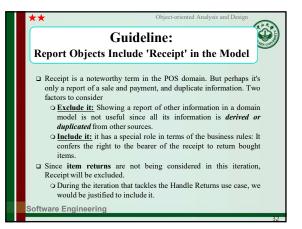


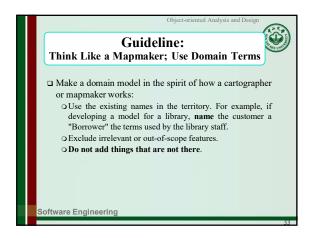


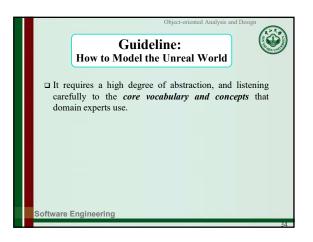


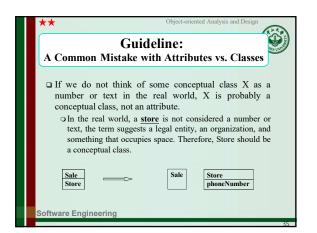


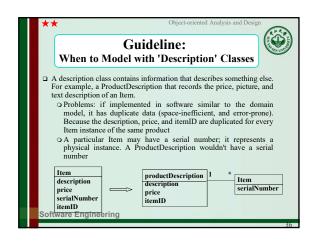


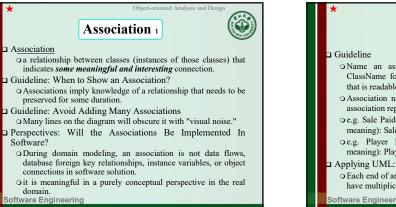


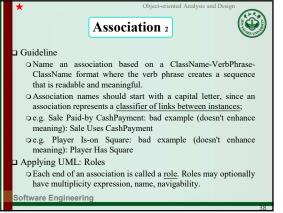


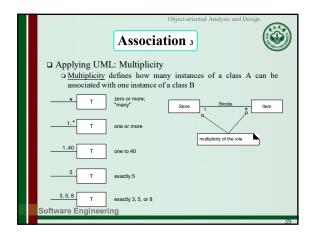


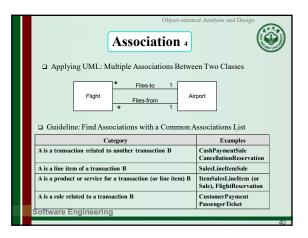




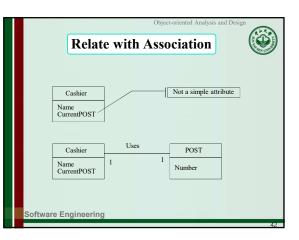


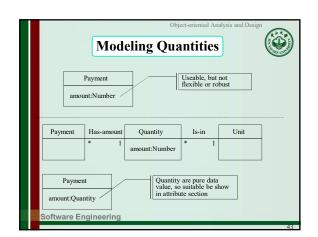


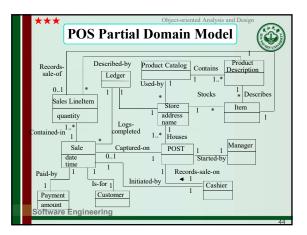


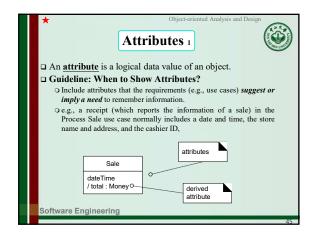


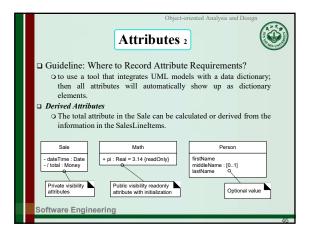
Asso	Object-oriented Analysis and Design ciation s
Category	Examples
A is a physical or logical part of B	DrawerRegister, SquareBoard, SeatAirplane
A is physically or logically contained in/on B	RegisterStore, ItemShelf, SquareBoard, PassengerAirplane
A is a description for B	ProductDescriptionItem, FlightDescriptionFlight
A is known/logged/recorded/ reported/captured in B	SaleRegister, PieceSquare, ReservationFlightManifest
A is a member of B	CashierStore, PlayerMonopolyGame, PilotAirline
A is an organizational subunit of B	DepartmentStore, MaintenanceAirline
A uses or manages or owns B	CashierRegister, PlayerPiece, PilotAirplane
A is next to B	SalesLineItemSalesLineItem, SquareSquare CityCity
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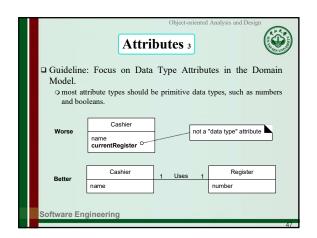


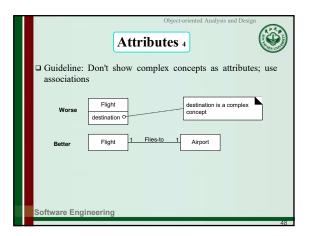


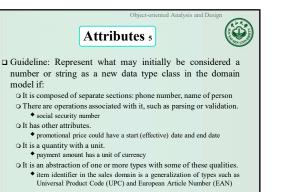


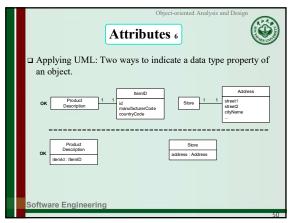


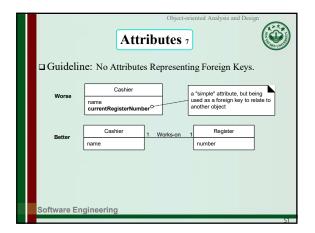




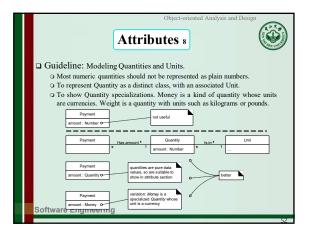


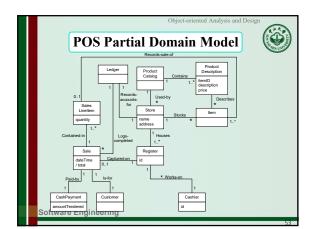






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Object-oriented Analysis and Design 案例与实践
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Software Engineering

terative	and Evolutionar	y Do	main	Mod	eling
Discipline	Artifact	Incep.	Elab.	Const.	Trans
	Iteration	11	E1En	C1Cn	T1T2
Business Modeling	Domain Model		s		
Requirements	Use-Case Model (SSDs)	s	r		
	Vision	s	r		
	Supplementary Specification	s	r		
	Glossary	s	r		
Design	Design Model		s	r	
	SW Architecture Document		s		
	Data Model		s	r	