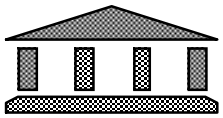


CS577a

Rose & UML Intro Tutorial

Goals of Presentation

A working overview of using Rose to do domain-level models by looking at the WinWin Tool

- Activity Model
- Use-case description (prose)
- Use-case structured description
- Use-case model and diagram
- Class model and diagram
- Sequence diagram

A look at the Homework

Activity Model

Use-case description (prose)

Option: See EC-__, Use Case Exercise Form Artifacts, courtesy of Ed Colbert of Absolute Software

- Put prose in "Overview" section of High-Level Descriptions
- Forms template available

High–Level Descriptions

Use Case Name	
Purpose	
Actors	
Importance	
Overview	
Requirements	
State	

Use-case structured description

Option: See EC-__, Use Case Exercise Form Artifacts, courtesy of Ed Colbert of Absolute Software

- Matching numbers "overlay" those in the base or exception IFF condition is matched.
- Forms also available as a .dot file

Use–Case Expanded/Essential Description

Use Case Name	
Purpose	
Actors	
Importance	
Overview	
Requirements	
State	
Uses	

Typical Course of Action

	Actor Actions	System Response
1.		
2.		

Use–Case Expanded/Essential Description (cont.)

Alternate Course of Action:

	Actor Actions	System Response

Exceptional Course of Action:

	Actor Actions	System Response

Use-case model and diagram

Top level, externally visible behavior only

Use "includes" or "extends" relations as appropriate

Class model and diagram

Include ALL the elments explained on the "Class modeling" part of the UML "Concepts Tutorial" in "Inside UML"

Sequence diagram

Homework #3 [Unofficial]

1. In the "Rose Animated Demo" on the "Inside the UML" CD-ROM,
replicate (using a functioning copy of Rose98i) the following four diagrams <u>as they appear at the *end* of the following segments</u>:

- a) Activity Model,
- b) Use case modeling,
- c) Logical modeling (BOTH the class diagrams and the sequence diagram).

Homework #3 [Unofficial] (cont)

2. In the "Concepts Tutorial" under the "UML Concepts",
replicate (using a functioning copy of Rose98i) the following four diagrams *as they appear at the* beginning (or end, if specified) *of the following segments*:

a) Activity diagram,

b) Use case modeling,

c) Use-Case realizations, Sequence diagram **(at end)**,

d) Class modeling (the class diagrams only).

Homework #3 [Unofficial] (cont)

3. Describe in prose (stream of conscious), the domain specific content/meaning of the four diagrams in item 2. Do NOT define the UML terms, just write it as if you were reading or explaining each diagram to someone else.

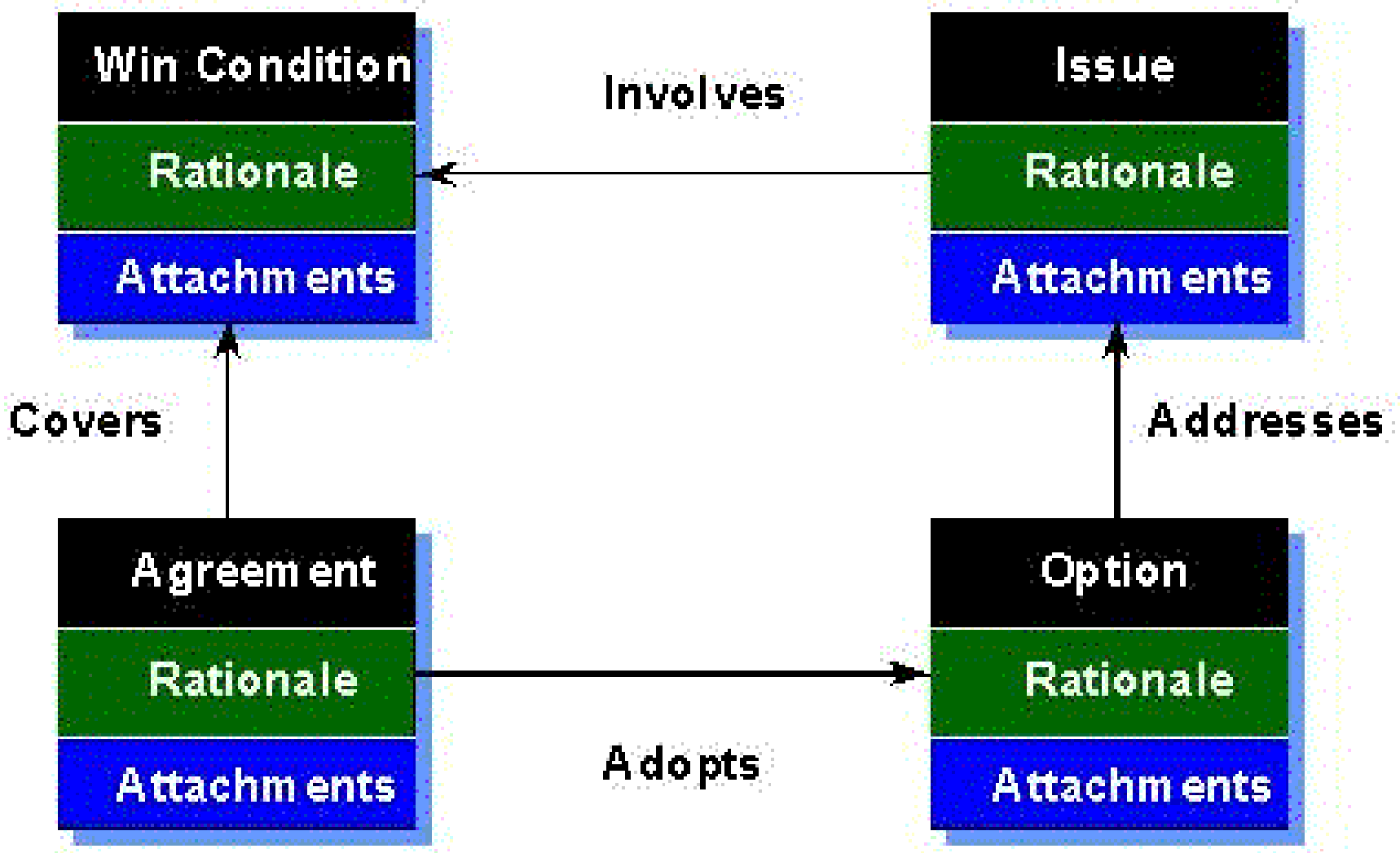
4. Do an activity model for the use/operation of the WinWin Tool.

5. Do a WinWin Tool [Domain level] Class Model.

- Each person must generate their own Class Diagram and be prepared to justify any of the modeling decisions based on the WinWin Reference Manual
- You may build on what was done in class or
- You may collaborate with others (this diagram ONLY).
- Use good association names, as on page 17 of EC-04

Homework #3 [Unofficial] (cont)

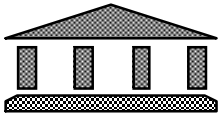
WinWin Negotiation Model



Homework #3 [Unofficial] (cont)

6. Do a prose use case description for one of the major activity threads implied in Homework #2:

- entering Win Conditions,
- identifying additional issues and conflicts among the win conditions,
- proposing options to resolve the issues,
- concluding agreements (adopting options to resolve the issues),
- voting on, and then passing or failing agreements, or
- checking that all win conditions are covered and all issues resolved.



Homework #3 [Unofficial] (cont)

7. Do a structured use-case description, like those in

- Larman
- Colbert

for the described [in 6.] use-case.

8. Do a Use-case model (diagram) for the described [in 6.] use-case.

9. Do a sequence diagram (use-case realization) for the described [in 6.] use-case.