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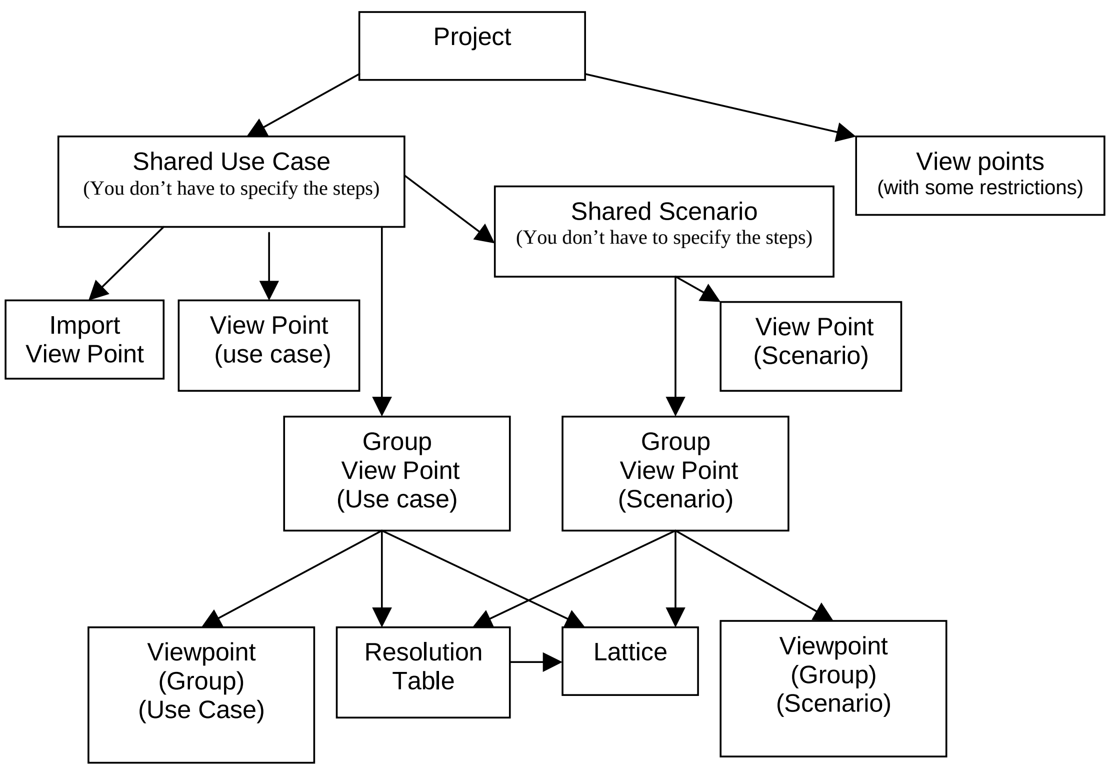
USING RECOCASE

<u>How to start RECOCASE</u>
Make sure the SQL server is on (Antinav access component)
At the command line type:

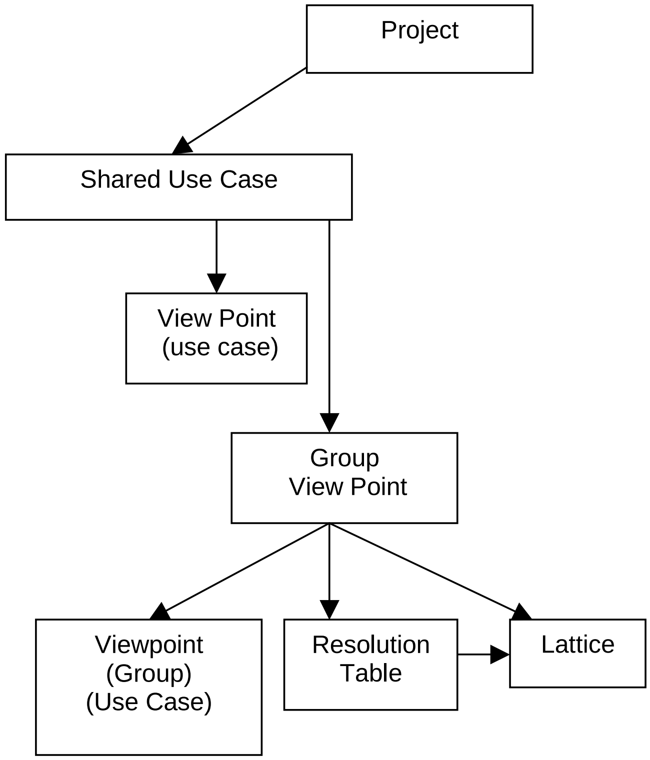
```
bash
cd projects/RECOCASE/
make start
```

Complete Project flow



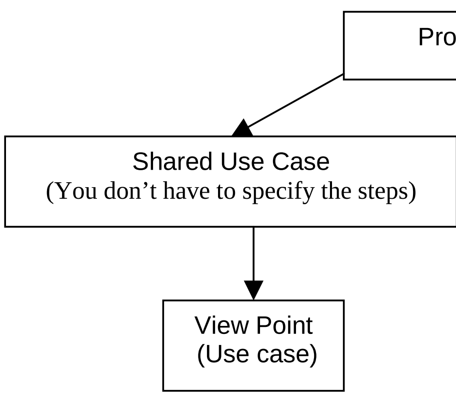
Project Leader

The project leader is responsible for the creation of the project and shared use cases so that the team members can enter their viewpoints for each use case created.
The team leader will then reconcile these viewpoints.



Team member

Team member are responsible for the creation of the Viewpoints



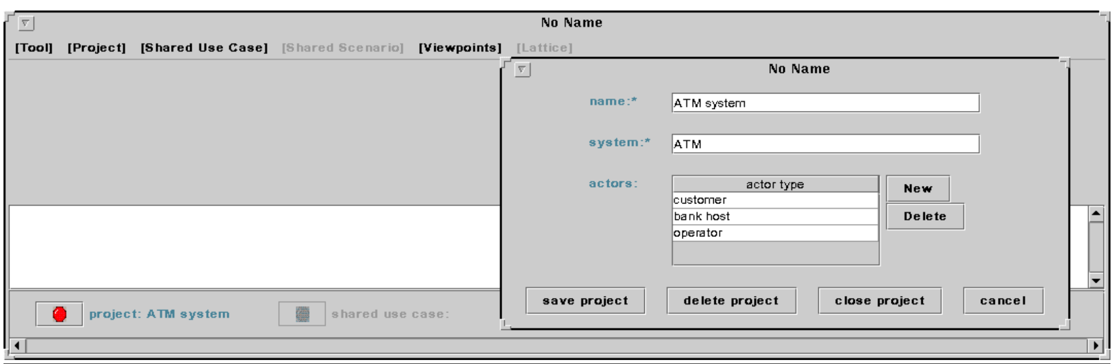
FAQ

Project

How do I create a project?
After you log in click on "Project"
Click on "New"
Enter the name of the project (eg "ATM System")
Enter the systems Name (eg "ATM")
Enter the actor types (eg "customer", "bank host", "operator"
Click on "Create Project"
If you want to work on this project that you created you must open it first

How do I open a project?
Click on "Project"
Click on "Open"
Select the project you wish to open from the drop down combo box
Click on "Open Project"
A project icon will appear at the bottom of the main screen
(The one with a red dot in it with the words "project: project name" next to it)
Click on the project icon if you wish to edit the project

How do I add an actor?
Open the project (see: "how do I open a project?")
Click on "New" next to the list of actors
Type in the actor type
Click on "save project"
(You will have to reopen the shared Use Case)

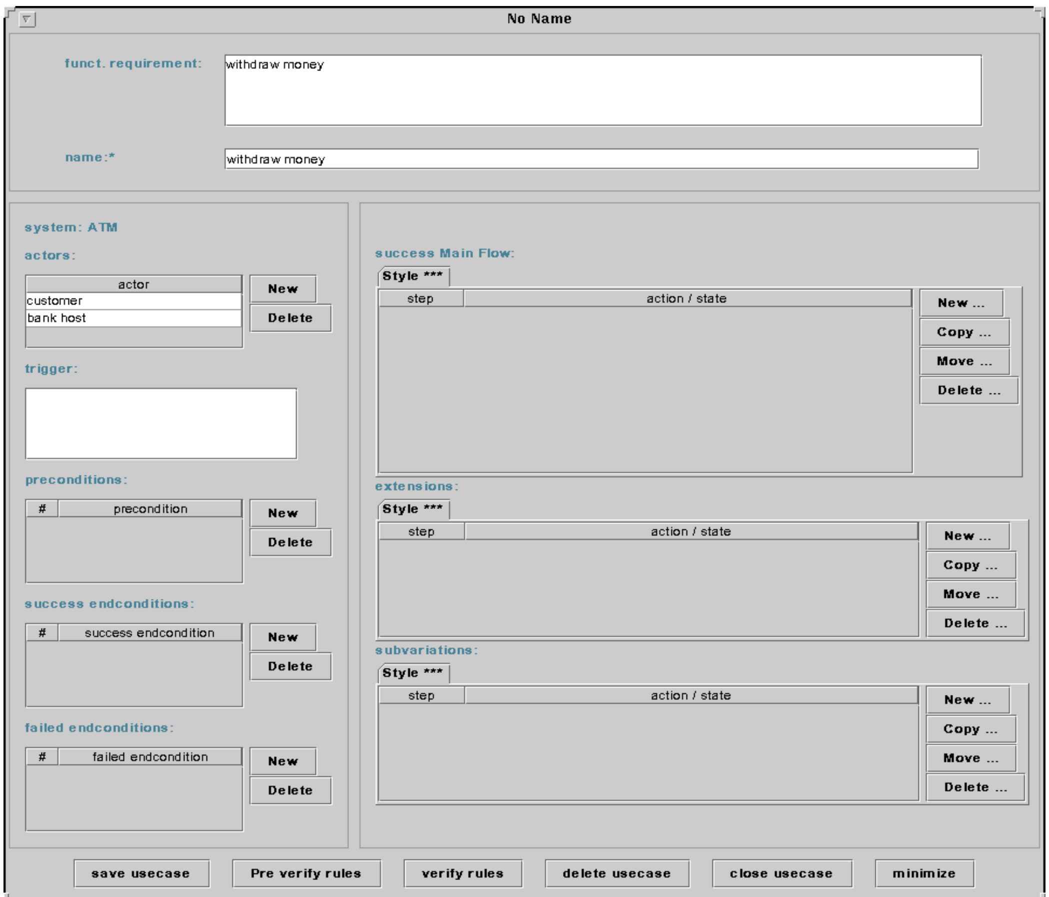


Note: The "ATM system" project has been open

Shared Use Case

How do I create a new "Shared Use Case"?
Make sure that the correct project is open
Click on "Shared Use Case"
Click on "New"
You must enter a use case
We recommend that you also enter the "funct. requirements" and "actors"
Click on "Save new use case"

How do I open a "Shared Use Case"?
Make sure that a the correct project is open
Click on "Shared Use Case"
Click on "Open"
Select the shared use case you wish to open from the drop down combo box
Click on "Open Use Case"
A "shared use case" icon will appear at the bottom of the main screen
(The one with a red dot in it with the words "shared use case: name of shared use case" next to it)
Click on the icon if you wish to edit the shared use case.
Note: you can only have one "Shared Use Case" open at a time



Use Case / Viewpoint

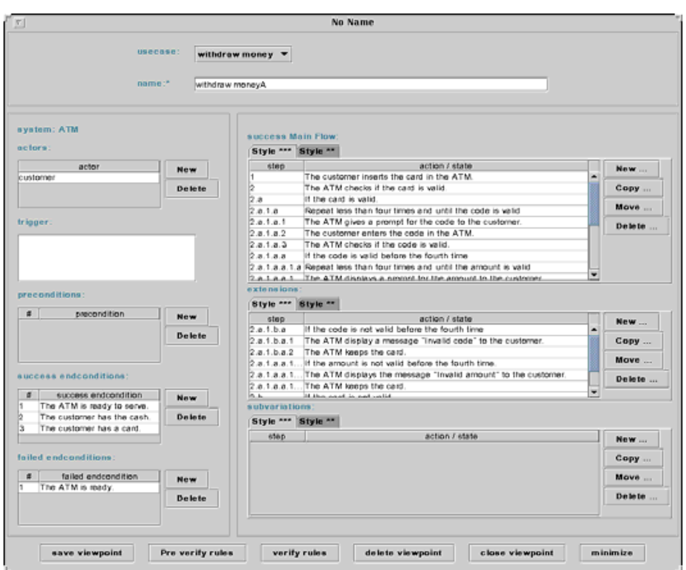
How do I insert a new step?
Click on “New”
Specify the type of step from the drop down combo box
Select where the new “step”/ “sub step” should be inserted
Click “ok”

How do I insert a new actor?
Click on “New”
Select an actor from the drop down combo box
(If the combo box is grey in colour this means you have not selected an actor)
If the actor you wanted to add is not in the list then you must contact your project leader

How do I delete an actor?
Select the actor that you want to delete (this can be a little bit tricky ,If the selected actor has a grey background then reselect the actor from the list)
Click on “Delete”

How do I create a use case viewpoint?
Make sure that a the correct project is open
(Non-essential but recommended) Make sure that a the correct shared use case is open
Click on “Viewpoints”
Click on “New Use Case Viewpoint”
Enter a Viewpoint name
Enter any other data that you wish to enter
Click on “Create viewpoint”

How do I open a (use case / scenario) viewpoint?
Make sure that a the correct project is open
Click on “Viewpoints”
Click on “Open Viewpoint”
A screen will come up showing all the use case and scenario viewpoints
Select the viewpoint you would like to open
Click on “Open viewpoint”
A “viewpoint” icon will appear at the bottom of the main screen
(The one with a red dot in it with the words “viewpoint: viewpoint name” next to it)
Click on the icon if you wish to edit the viewpoint.



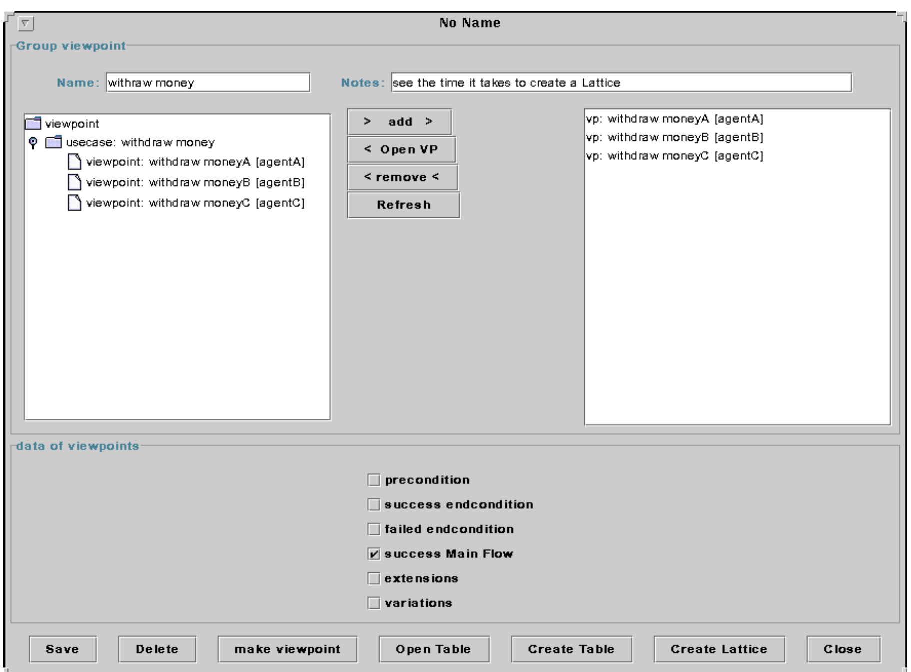
Group Viewpoints

How do I create a "Group Use case viewpoint"?
Make sure that a the correct project is open
Make sure that a the correct shared use case is open
Click on "Viewpoints"
Click on "Create Group Use case viewpoint"
Enter a name for this group
Click on "ok" (at this point the group is created)
A screen should appear for you to add viewpoints to the group.

How do I open a "Group Use case viewpoint"?
Make sure that a the correct project is open
Make sure that a the correct shared use case is open
Click on "Viewpoints"
Click on "Open Group Use case viewpoint"
Select the one you wish to open from the drop down combo box
Click on "Open"

How do I add a viewpoint to a "Group Use case viewpoint"?
Make sure that a the correct project is open
Make sure that a the correct shared use case is open
Make sure that a the correct "Group Use case viewpoint" is open
Select the viewpoint you want to add from the list on your left
Click on "> add >"
The viewpoint you selected should now be in the list on the right side of the screen

How do I create a Viewpoint that contains all viewpoints in my "Group Use case viewpoint"?
Make sure that a the correct "Group Use case viewpoint" is open
Click on "make viewpoint"
Enter a name for this viewpoint
This new viewpoint can now be opened like any other viewpoint



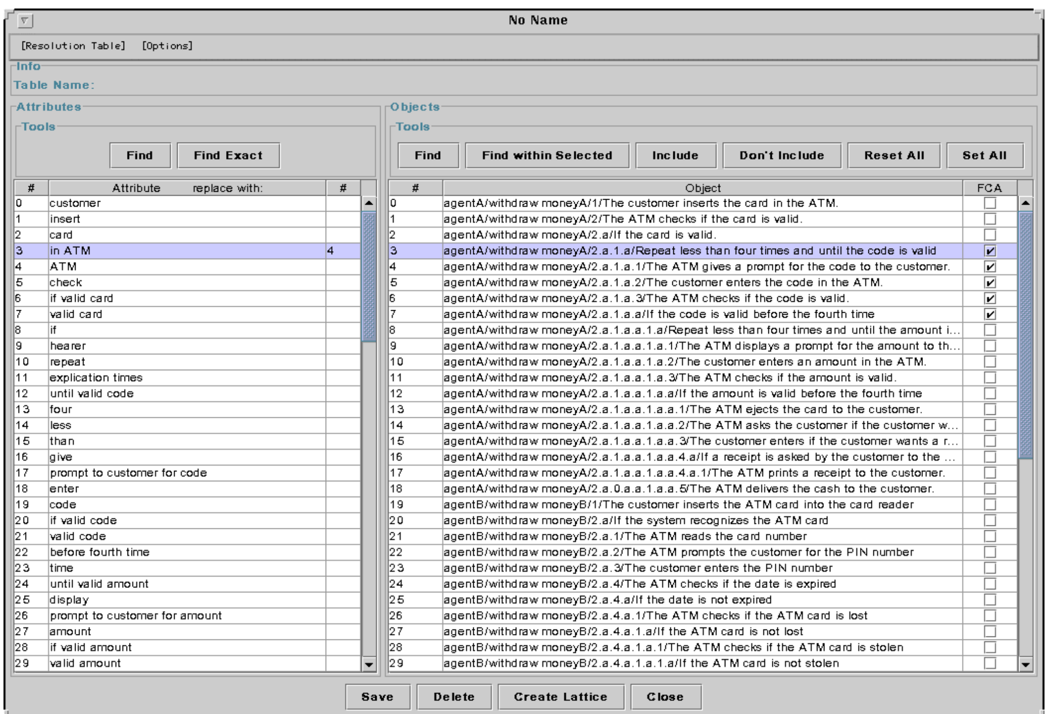
Notes: All Viewpoint belong to this Group Viewpoint

Resolution Tables

How do I create a resolution table?
Make sure that a the correct project is open
Make sure that a the correct shared use case is open
Make sure that a the correct “Group Use case viewpoint” is open
Click on “Create Table”

How do I create a lattice using a resolution table?
Make sure that a the correct project is open
Make sure that a the correct shared use case is open
Make sure that a the correct “Group Use case viewpoint” is open
Click on “Create Table” or “Open Table” if you made one before
Click on “Create Lattice”

How do I create a diagram that only contains sentences about the “system”?
Make sure that a the correct project is open
Make sure that a the correct “Group Use case viewpoint” is open
Click on “Create Table” or “Open Table” if you made one before
Click on “Reset All” (this will unselect all the sentences)
Click on “find”
Enter the word “system”
Click “ok”
The tool will highlight the sentences that contain the word “system”
Click on “Include”


No Name
[Resolution Table] [Options]
Info
Table Name:
Attributes
Tools
Find | Find Exact

#	Attribute replace with:	#
0	customer	
1	insert	
2	card	
3	in ATM	4
4	ATM	
5	check	
6	if valid card	
7	valid card	
8	if	
9	hearer	
10	repeat	
11	explication times	
12	until valid code	
13	four	
14	less	
15	than	
16	give	
17	prompt to customer for code	
18	enter	
19	code	
20	if valid code	
21	valid code	
22	before fourth time	
23	time	
24	until valid amount	
25	display	
26	prompt to customer for amount	
27	amount	
28	if valid amount	
29	valid amount	

Objects
Tools
Find | Find within Selected | Include | Don't Include | Reset All | Set All

#	Object	FCA
0	agentA/withdraw moneyA/1/The customer inserts the card in the ATM.	☐
1	agentA/withdraw moneyA/2/The ATM checks if the card is valid.	☐
2	agentA/withdraw moneyA/2.a/If the card is valid.	☐
3	agentA/withdraw moneyA/2.a.1.a/Repeat less than four times and until the code is valid	☑
4	agentA/withdraw moneyA/2.a.1.a.1/The ATM gives a prompt for the code to the customer.	☑
5	agentA/withdraw moneyA/2.a.1.a.2/The customer enters the code in the ATM.	☑
6	agentA/withdraw moneyA/2.a.1.a.3/The ATM checks if the code is valid.	☑
7	agentA/withdraw moneyA/2.a.1.a.a/If the code is valid before the fourth time	☑
8	agentA/withdraw moneyA/2.a.1.a.a.1.a/Repeat less than four times and until the amount i...	☐
9	agentA/withdraw moneyA/2.a.1.a.a.1.a.1/The ATM displays a prompt for the amount to th...	☐
10	agentA/withdraw moneyA/2.a.1.a.a.1.a.2/The customer enters an amount in the ATM.	☐
11	agentA/withdraw moneyA/2.a.1.a.a.1.a.3/The ATM checks if the amount is valid.	☐
12	agentA/withdraw moneyA/2.a.1.a.a.1.a.a/If the amount is valid before the fourth time	☐
13	agentA/withdraw moneyA/2.a.1.a.a.1.a.a.1/The ATM ejects the card to the customer.	☐
14	agentA/withdraw moneyA/2.a.1.a.a.1.a.a.2/The ATM asks the customer if the customer w...	☐
15	agentA/withdraw moneyA/2.a.1.a.a.1.a.a.3/The customer enters if the customer wants a r...	☐
16	agentA/withdraw moneyA/2.a.1.a.a.1.a.a.4.a/If a receipt is asked by the customer to the ...	☐
17	agentA/withdraw moneyA/2.a.1.a.a.1.a.a.4.a.1/The ATM prints a receipt to the customer.	☐
18	agentA/withdraw moneyA/2.a.0.a.a.1.a.a.5/The ATM delivers the cash to the customer.	☐
19	agentB/withdraw moneyB/1/The customer inserts the ATM card into the card reader	☐
20	agentB/withdraw moneyB/2.a/If the system recognizes the ATM card	☐
21	agentB/withdraw moneyB/2.a.1/The ATM reads the card number	☐
22	agentB/withdraw moneyB/2.a.2/The ATM prompts the customer for the PIN number	☐
23	agentB/withdraw moneyB/2.a.3/The customer enters the PIN number	☐
24	agentB/withdraw moneyB/2.a.4/The ATM checks if the date is expired	☐
25	agentB/withdraw moneyB/2.a.4.a/If the date is not expired	☐
26	agentB/withdraw moneyB/2.a.4.a.1/The ATM checks if the ATM card is lost	☐
27	agentB/withdraw moneyB/2.a.4.a.1.a/If the ATM card is not lost	☐
28	agentB/withdraw moneyB/2.a.4.a.1.a.1/The ATM checks if the ATM card is stolen	☐
29	agentB/withdraw moneyB/2.a.4.a.1.a.1.a/If the ATM card is not stolen	☐

Save | Delete | Create Lattice | Close

Notes: Attribute 3 is selected
Attribute 3 “in ATM” will be replaced by attribute 4 “ATM”
Sentence 3 is selected
Sentence 3-7 will be included in the lattice

Lattices

How do I create a lattice?
Make sure that a the correct project is open
Make sure that a the correct shared use case is open
Make sure that a the correct "Group Use case viewpoint" is open
Click on "Create Lattice" (this method will not use the resolution table)

How do I hide a node from the diagram?
Select the node you want to hide
Hit the "delete" key
OR
Go to the menu "view" then click on "Hide node"

How do I hide a node and its children?
Select the parent node
Hit the "end" key
OR
Go to the menu "view" then click on "Hide Branch"

How do I unhide a node ?
Hit the "insert" key
OR
Go to the menu "view" then click on "Undo Hide" or "Show All"

How do I show the viewpoint names in the diagram?
Go to the menu "Objects"
Click on
"Show Objects"
or "Show Object Set" (this will only show you the object number)
or "Show More Objects" (this will also show you hidden objects inherited from hidden nodes)

My diagram looks very messy how do I fix it up?
Go to the menu "Layout" and then click on "Apply Layout"
Tip:
Something that I find useful is doing the following
Go to the menu "Layout" and then click on "Apply Layout"
Then select a top node on the left hand side of the diagram (but not the very top node)
Hide this node and then unhide the node
Go to the menu "Layout" and then click on "Apply Layout"
You will notice that this node is now at the very far right of the diagram!! (most of the time)
This can be useful when you want to move some nodes around but still keep the nice look that the "layout" provides.

All the nodes are close together how do I separate them?
Go to the menu "Layout" and then click on "Spread"
(You might want to do this first: go to the menu "Layout" then click on "Apply Layout")

How do I move just the one node to a different position?
Select the node that you want to move then drag it to tits new position.

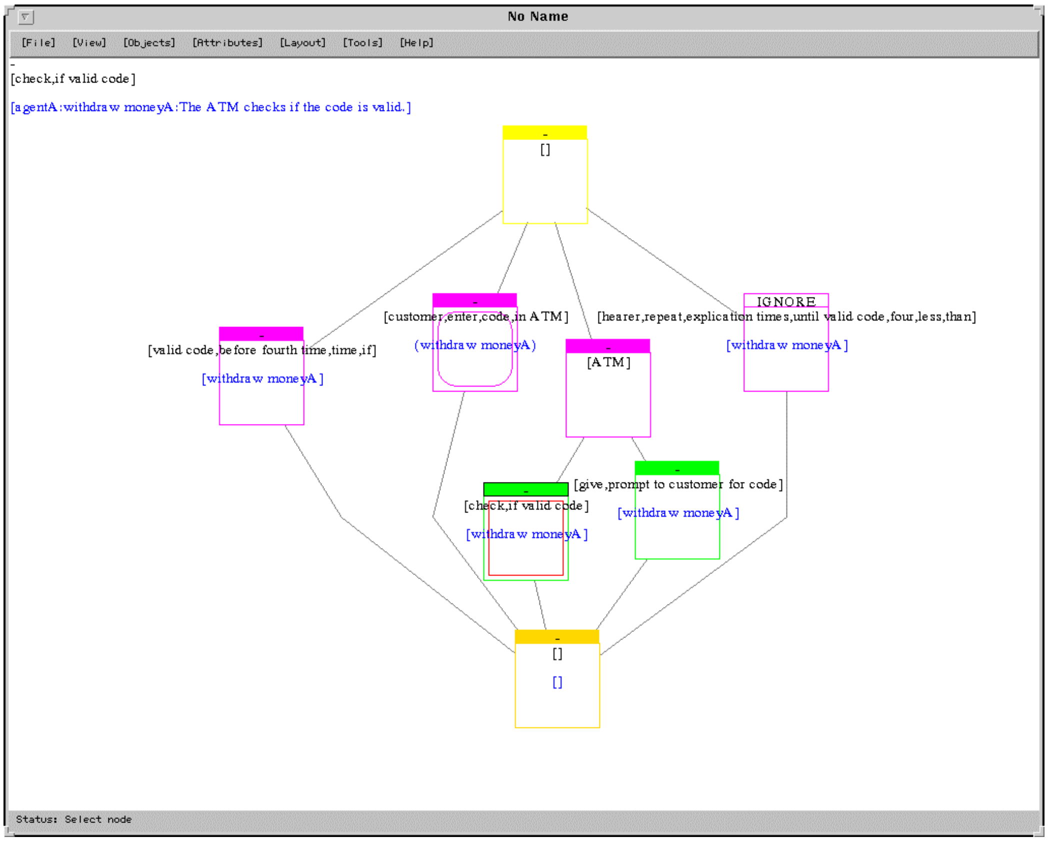
How do I calculate the "distance" between the viewpoints?
Go to the menu "tools" then click on "Find Distance"

How do I let the system know to ignore a node when calculating the distance between viewpoints?
see: How do put the flag IGNORE on top of the a node?

How do I put the flag IGNORE on top of the a node?
Select the node by using the right button on the mouse

A screen should come up
Select the flag IGNORE from the drop down combo box
The screen should disappear and the node should now have the flag ignore

How do I insert a sentence from a node into the shared use case?
Select the node by using the right button on the mouse
A screen should come up
Select the sentence from the drop down combo box
Click on Add



Notes: The second purple node is included in the shared use case
The forth purple node will be ignored in the distance calculation
The first green node is selected and its data displayed on the top left corner of the window

General

How do I bring a partly hidden window to the front?
Put the mouse over the window and then hit the “F12” key

How do I quit the system?
In the main window go to the menu “tool”
Then click on “Quit”

Why do I get a message saying, “Please finish editing row”?
The system displays this message when it doesn’t know if you finish editing a row, you let the system know that you have finish by pressing the “Enter” key after inserting the data

How do I make a “Screen Capture”?
In the command line type xfig
Click on the icon “picture” (it looks like an old camera)
Go to the canvas (in xfig) and place the picture in it by clicking the right mouse one for the top left corner and clicking again for the bottom right corner.
An option screen should come up
Click on “Screen Capture”
After xfig disappears click on the screen you want to capture
Click on “use original size”
Click on “Done”
Click on “Export”

Guide Lines

1. Use the same word to refer to the same thing each time (eg not customer one time and client another time).

2. Do not use personal pronouns (e.g. he, she, it, them)
Do not use possessive pronouns (e.g. his, her, hers, its, their)

3. Do not use modal verbs (e.g. will-would, may-might, can-could, shall-should).

4. Do not use adverbs (e.g. quickly, accurately, firstly).

5. Avoid the use of OR and AND

6. Use quotation marks to mark messages, captions and use-case titles, for example: The system invokes the **“login use-case**”, The system displays the message **“Error- User Not Found”**)

7. Always use a noun together with a determiner ‘a’ or ‘the’(e.g. **The** user inserts **a** card)

8. Use the phrase ‘of’ instead of the possessive form. (e.g. the card **of** the user instead of the user**’s** card)

9. Each sentence should describe an action (verb) or a conditional statement starting with “if” (e.g. if the card is valid). Each sentence should begin with a number to indicate the order of steps. Use numbers to indicate substeps of an action eg 1.1.

10. Do not use negation.

11. Use verbs in the present tense.

12. Write the sentences in order. Don’t refer to previous or future steps.

13. Each sentence in template 1 must include the subject which triggers the action and must be either the system or an actor.

14. Do not write sentences that might be ambiguous – make the subject, object and action clear. For example: The boy saw the girl with the telescope should be EITHER The boy with the telescope saw the girl OR The boy saw the girl who has a telescope