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USING RECOCASE

How to start RECOCASE

Make sure the SQL server is on (Antinav access component)

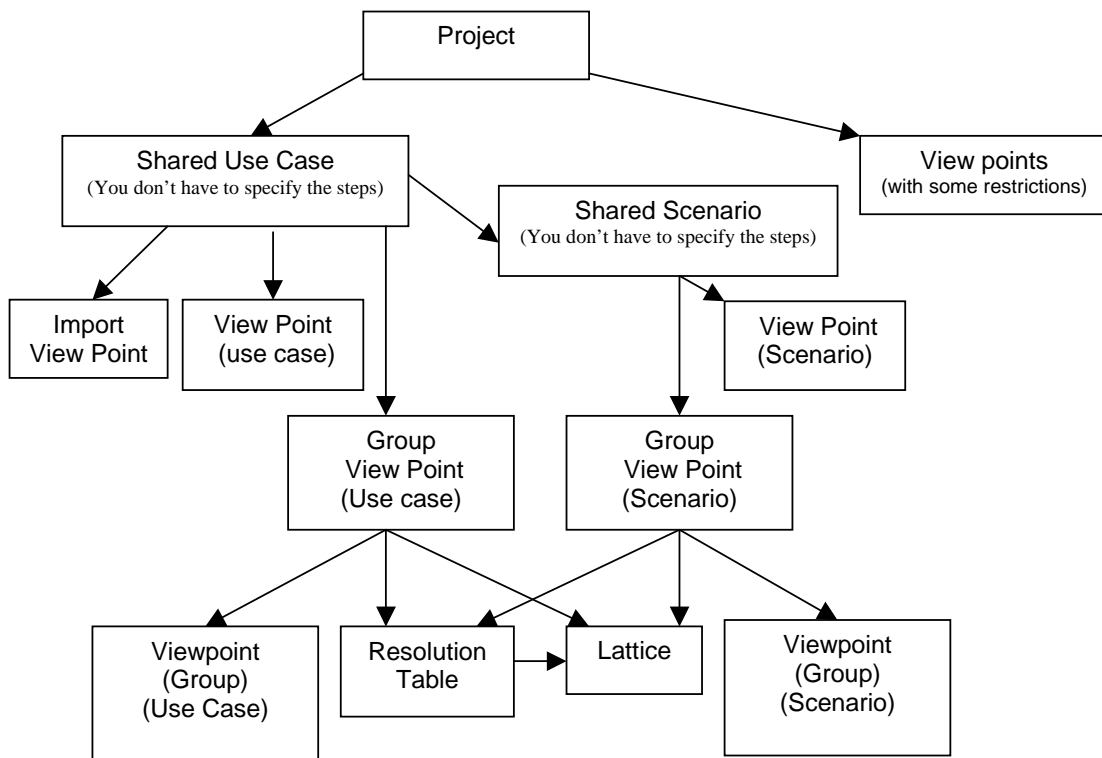
At the command line type:

bash

cd projects/RECOCASE/

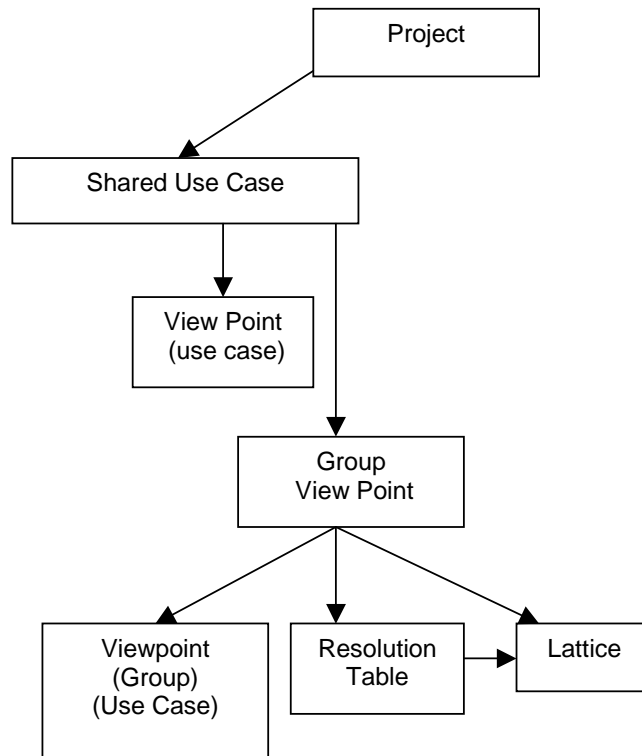
make start

Complete Project flow



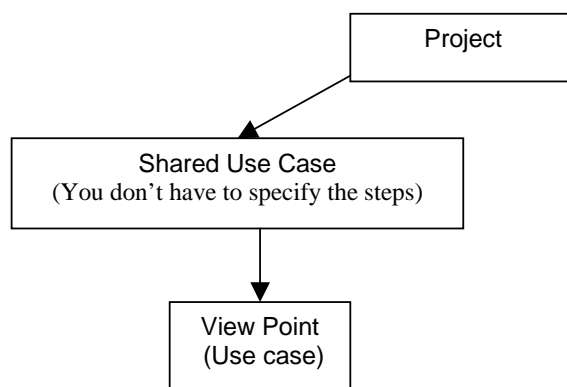
Project Leader

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?

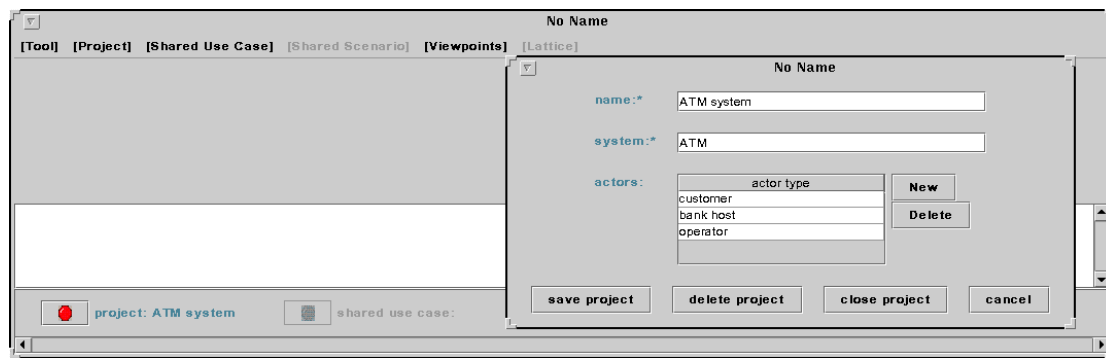
Open the project (see: “how do I open a project?”)

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

The screenshot shows a software interface for editing a "Shared Use Case". The window title is "No Name". At the top, there are two text input fields: "funct. requirement:" with the value "withd raw money" and "name: *" with the value "withd raw money". Below these, the interface is divided into two main sections. The left section contains several sub-sections: "system: ATM", "actors:" with a table listing "customer" and "bank host" and buttons "New" and "Delete", "trigger:" with an empty text box, "preconditions:" with a table and "New" and "Delete" buttons, "success endconditions:" with a table and "New" and "Delete" buttons, and "failed endconditions:" with a table and "New" and "Delete" buttons. The right section contains three sub-sections: "success Main Flow:", "extensions:", and "subvariations:", each with a table and "New ...", "Copy ...", "Move ...", and "Delete ..." buttons. At the bottom of the window, there are six buttons: "save usecase", "Pre verify rules", "verify rules", "delete usecase", "close usecase", and "minimize".

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.

The screenshot shows a software interface for editing a Use Case Viewpoint. The title bar says "No Name". Below the title bar, there are two dropdown menus: "usecase:" with "withdraw money" selected, and "name:" with "withdraw moneyA" entered. The main area is divided into several sections:

- system: ATM**
 - actors:** A table with one row: "customer". There are "New" and "Delete" buttons.
 - trigger:** A text input field.
 - preconditions:** A table with one row: "1 precondition". There are "New" and "Delete" buttons.
 - success endconditions:** A table with three rows: "1 success endcondition", "2 The customer has the cash", "3 The customer has a card". There are "New" and "Delete" buttons.
 - failed endconditions:** A table with one row: "1 failed endcondition", "1 The ATM is ready". There are "New" and "Delete" buttons.
- success Main Flow:** A table with columns "step", "Style", and "action / state". It contains a list of steps for a withdrawal process, including card insertion, PIN entry, and cash dispensing. There are "New", "Copy", "Move", and "Delete" buttons.
- exceptions:** A table with columns "step", "Style", and "action / state". It contains steps for handling invalid PINs and amounts. There are "New", "Copy", "Move", and "Delete" buttons.
- subviewpoints:** A table with columns "step" and "action / state". It is currently empty. There are "New", "Copy", "Move", and "Delete" buttons.

At the bottom of the interface, there are buttons: "save viewpoint", "Pre-verify rules", "verify rules", "delete viewpoint", "close viewpoint", and "minimize".

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

The screenshot shows a software interface for managing viewpoints. The main window is titled "Group viewpoint" and has a subtitle "No Name". It contains several input fields and lists. The "Name" field is set to "withdraw money", and the "Notes" field contains "see the time it takes to create a Lattice". Below these are two lists of viewpoints. The left list, under a "viewpoint" folder, contains "usecase: withdraw money", "viewpoint: withdraw moneyA [agentA]", "viewpoint: withdraw moneyB [agentB]", and "viewpoint: withdraw moneyC [agentC]". The right list contains "vp: withdraw moneyA [agentA]", "vp: withdraw moneyB [agentB]", and "vp: withdraw moneyC [agentC]". Between the lists are buttons: "> add >", "< Open VP", "< remove <", and "Refresh". At the bottom, there's a "data of viewpoints" section with checkboxes for "precondition", "success endcondition", "failed endcondition", "success Main Flow" (checked), "extensions", and "variations". At the very bottom are buttons: "Save", "Delete", "make viewpoint", "Open Table", "Create Table", "Create Lattice", and "Close".

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”

The screenshot shows the 'Resolution Table' tool interface. It has a title bar 'No Name' and two tabs: '[Resolution Table]' and '[Options]'. The main area is divided into three panes: 'Info', 'Attributes', and 'Objects'. The 'Info' pane shows 'Table Name:'. The 'Attributes' pane has a 'Tools' section with 'Find' and 'Find Exact' buttons, and a table with columns '#', 'Attribute', 'replace with:', and '#'. The 'Objects' pane has a 'Tools' section with 'Find', 'Find within Selected', 'Include', 'Don't include', 'Reset All', and 'Set All' buttons, and a table with columns '#', 'Object', and 'FCA'. The 'Attributes' table has 29 rows, with row 3 ('in ATM') selected. The 'Objects' table has 29 rows, with rows 3, 4, 5, 6, 7, and 8 selected. The 'Tools' section at the bottom has buttons for 'Save', 'Delete', 'Create Lattice', and 'Close'.

#	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		

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

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 its 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?

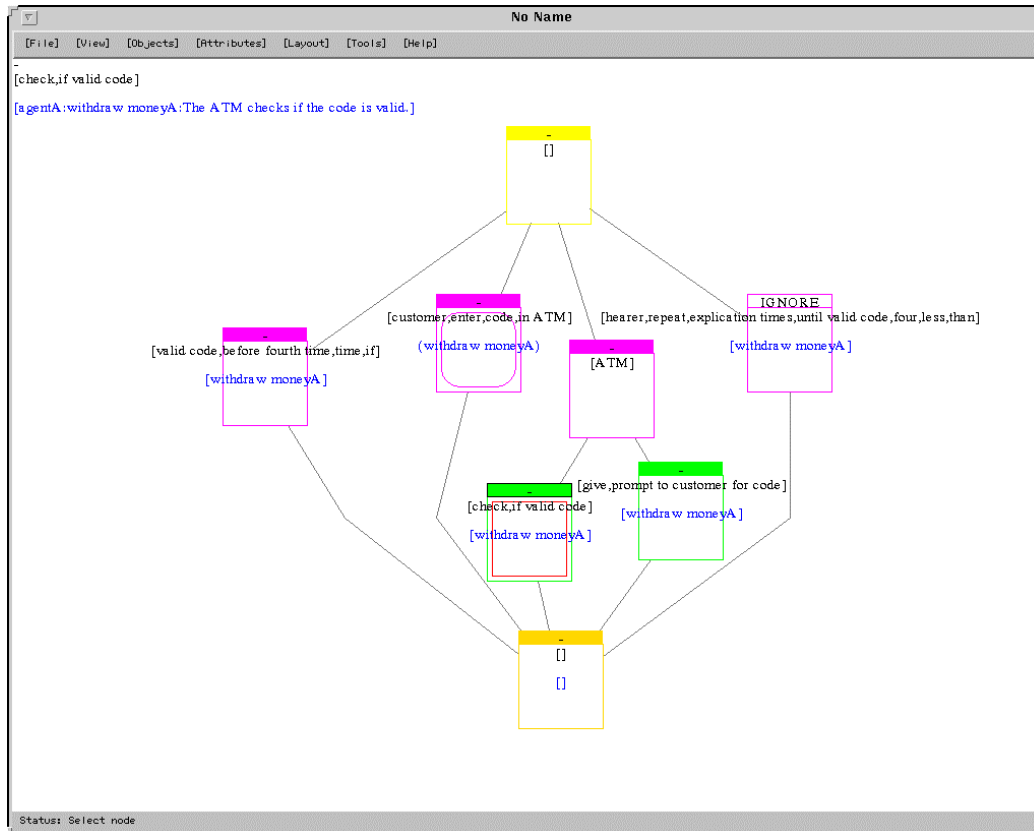
How do I put the flag IGNORE on top of the a node?

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