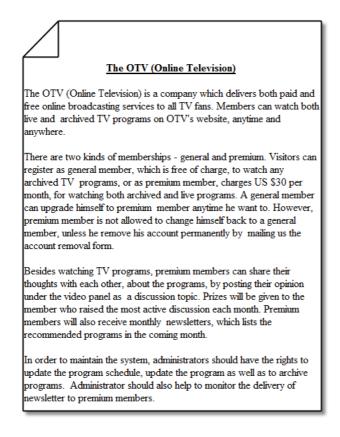


How to Derive Use Case Model from Glossary Terms?

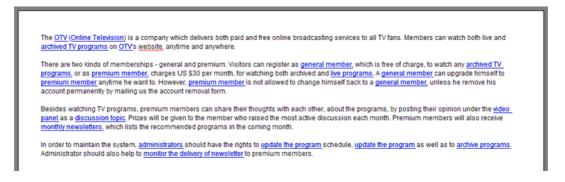
Written Date : March 1, 2016

The <u>glossary</u> is a place to store key terms that appear in project. It is possible to derive <u>use cases</u> from terms, base on their definitions. In this tutorial, we will try to construct a use case model by using use cases created from terms in glossary.

1. Study the following article, which describe the operations of company OTV (Online Television).



 Download <u>OTV.vpp</u> and open it in Visual Paradigm. You can open a file by selecting Project > Open from the application toolbar. 3. Open <u>Textual Analysis</u> and take a look. The problem description was written in it.

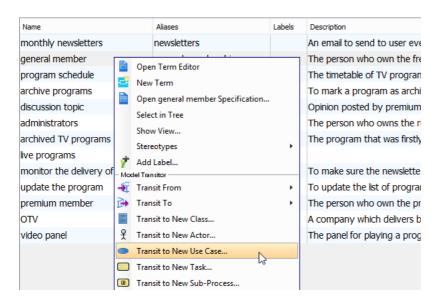


4. The words highlighted in blue are terms add into glossary before. Let's open the Glossary Grid to take a look. Select **Modeling > Glossary > Glossary Grid** from the application toolbar.

Name	Aliases	Labels	Description
monthly newsletters	newsletters		An email to send to user every month, to give information on the company, as well as to list the reco
general member	general membership		The person who own the free membership, and is allowed to watch free programs
program schedule	program timetable		The timetable of TV programs
archive programs			To mark a program as archived
discussion topic			Opinion posted by premium members, which talks about the program
administrators	admin		The person who owns the right to manage the upload and removal of programs, and the membership
archived TV programs	archived programs		The program that was firstly broadcast for at least 3 months
live programs			
monitor the delivery of newsle			To make sure the newsletter are delivered. Failure delivery should be checked, and a re-send action s
update the program			To update the list of programs on the programs page
premium member	premium membership		The person who own the premium membership, and is allowed to watch both free and paid programs
OTV	Online Television, Online TV		A company which delivers both paid and free online broadcasting services.
video panel	video pane		The panel for playing a program

5. Read through the glossary grid, which lists the important terms collected from textual analysis.

6. We need to identify use cases base on the terms. Let's try with the term *general member*. Rightclick on it and select **Transit to New Use Case** from the popup menu.



7. On the right hand side of the **Transit Model Element** window, click on ... next to **Parent Model** field. We are going to select a parent for placing the use case.

ransit: 🗧	-> 🔵 general member				Par	ent Model:	Glossary
Constraints	Diagrams Tra	ceability	References	Project Ma	anagement	Quality	Comments
General	Extension Points	Relations	Chart F	Relations	Stereotypes	Т	agged Values
Name: general	member						

8. In the Select Parent Model window, select the project root node.

\$	Select Parent Model	×
Select Parent Mode	el	
Please select pare	ent model for transit model element	s.
		A New Model
Tory Slossary		
L	ОК	Cancel

- 9. Click on **New Model**.
- 10. Enter Use Case Model as model name and click OK.

Referen		Project Management	Quality	Comments
Tagged General	Children			Traceability Stereotypes
cacipuon.				
escription:				

11. Click **OK** in the **Select Parent Model** window to confirm your selection.

12. Change the name of use case from *general member* to *Register as general member* to match the naming convention of use case.

Constraints	Diagrams	Traceability	References	-	lanagement	Quality Comments
General	Extension Points	Relations	Chart	Relations	Stereotypes	Tagged Values
lame: Register a	s general member	T				
ank: Unspecifie	ed					×
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The person	who own the fre	e membership	and is allow	ed to wate	h free program	ne
ine person	who own the fre	e membership,	and is allow	ed to wate	in free program	113

- 13. Click **OK** to proceed.
- 14. In the **Visualize Model Element** window, keep **Create new diagram** selected, and rename diagram to *OTV Use Case Diagram*.

\$	Visualiz	ze Mod	el Element		×
Visualization Options	of the following visualization	options to	show the models	s in new diagram or exi	sting diagram.
Oreate new diagr Diagram name:	oTV Use Case Diagram	Ι	2	Use Case Diagram	~
Show in existing of		~			•
Ο ΟΤΥ			Preview Preview	Stretch Y	
🔵 Do not visualize					
					Create

15. Click **Create** to continue. You should see a new use case diagram being created, with the case *Register as general member* appear in it.



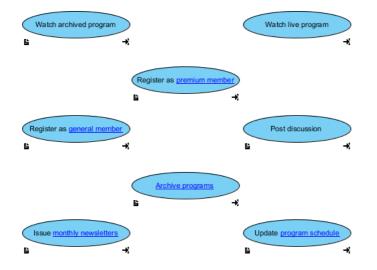
- 16. Press on **Ctrl + Tab** to go back to the glossary grid.
- 17. Repeat the above steps to transit other terms as use cases.

Term	Identified Use Case
archived TV programs	Watch archived program
premium member	Register as premium member
discussion topic	Post discussion
monthly newsletters	Issue monthly newsletters
program schedule	Update program schedule
archive programs	Archive programs
live programs	Watch live program

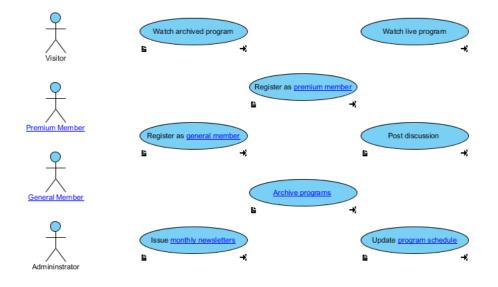
But note that we need to visualize the use cases to the "existing" use case diagram created before.

Visualize Model Element ×
You can choose one of the following visualization options to show the models in new diagram or existing diagram. Visualization Options Orreate new diagram Image: Show in existing diagram Image: Imag
O Do not visualize
Show

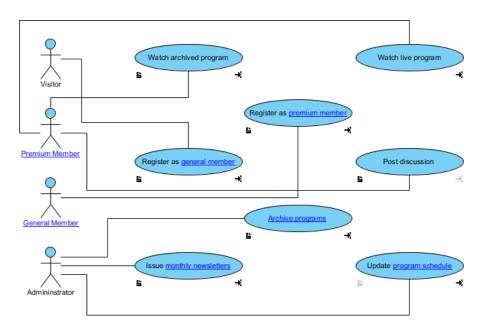
18. When finished, the following use cases are obtained.



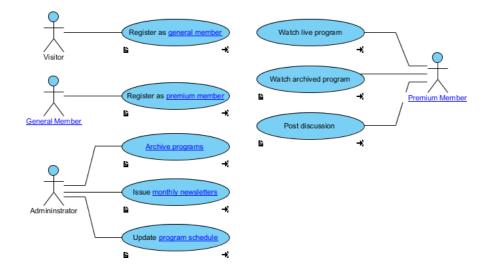
19. Create actors Visitor, General Member, Premium Member, Administrator.



20. Connect the actors with use cases as shown below.



21. Tidy up the diagram to make it look better.



Resources

1. <u>OTV.vpp</u>

Related Links

• Full set of UML tools and UML diagrams



Visual Paradigm home page (https://www.visual-paradigm.com/)

Visual Paradigm tutorials (https://www.visual-paradigm.com/tutorials/)