



How to Derive Use Case Model from Glossary Terms?

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The [glossary](#) is a place to store key terms that appear in project. It is possible to derive [use cases](#) 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).

The OTV (Online Television)

The OTV (Online Television) is a company which delivers both paid and free online broadcasting services to all TV fans. Members can watch both live and archived TV programs on OTV's website, anytime and anywhere.

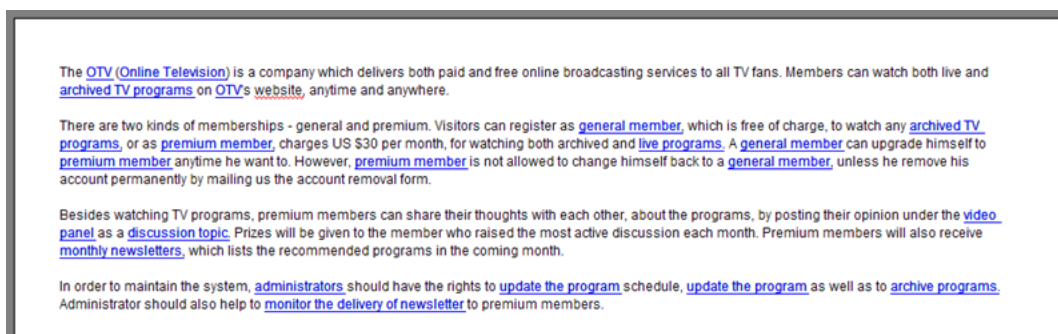
There are two kinds of memberships - general and premium. Visitors can register as general member, which is free of charge, to watch any archived TV programs, or as premium member, charges US \$30 per month, for watching both archived and live programs. A general member can upgrade himself to premium member anytime he want to. However, premium member is not allowed to change himself back to a general member, unless he remove his account permanently by mailing us the account removal form.

Besides watching TV programs, premium members can share their thoughts with each other, about the programs, by posting their opinion under the video panel as a discussion topic. Prizes will be given to the member who raised the most active discussion each month. Premium members will also receive monthly newsletters, which lists the recommended programs in the coming month.

In order to maintain the system, administrators should have the rights to update the program schedule, update the program as well as to archive programs. Administrator should also help to monitor the delivery of newsletter to premium members.

2. Download [OTV.vpp](#) and open it in Visual Paradigm. You can open a file by selecting **Project > Open** from the application toolbar.

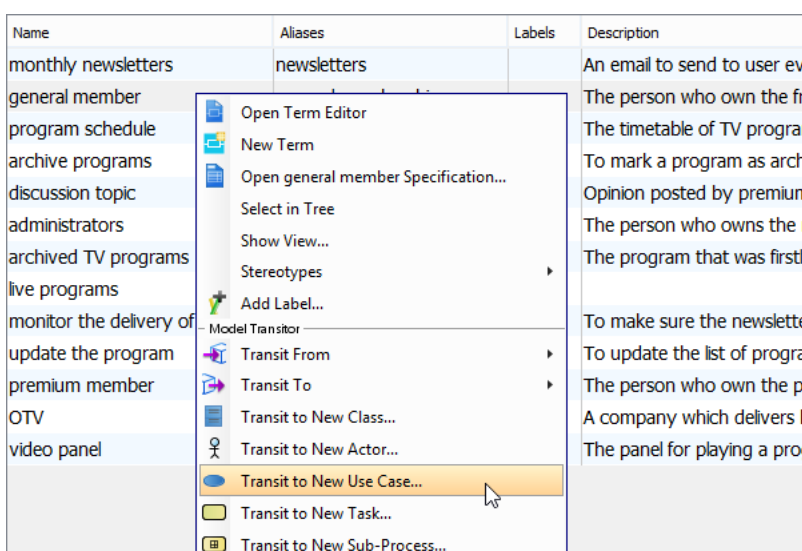
- Open [Textual Analysis](#) and take a look. The problem description was written in it.



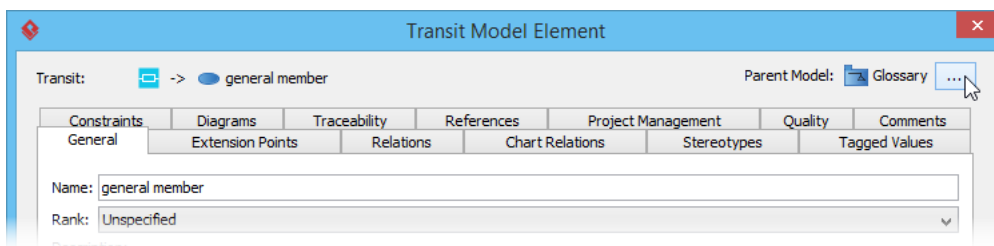
- The words highlighted in blue are terms add into glossary before. Let's open the Glossary Grid to take a look. Select **Modeling > Glossary > Glossary Grid** from the application toolbar.
- Read through the glossary grid, which lists the important terms collected from textual analysis.

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 memberships
archived TV programs	archived programs		The program that was firstly broadcast for at least 3 months
live programs			
monitor the delivery of newsl...			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

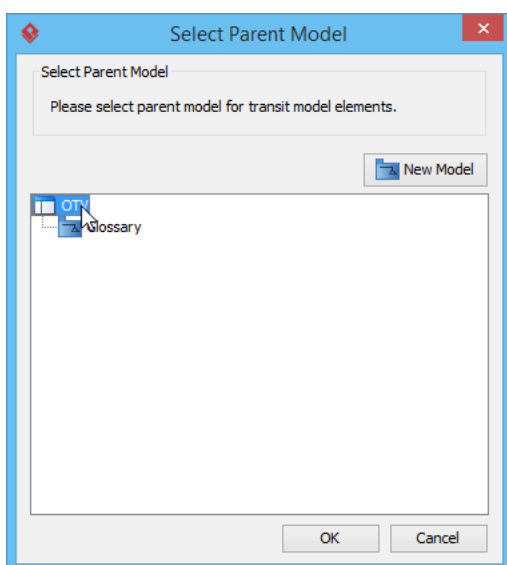
- We need to identify use cases base on the terms. Let's try with the term *general member*. Right click on it and select **Transit to New Use Case** from the popup menu.



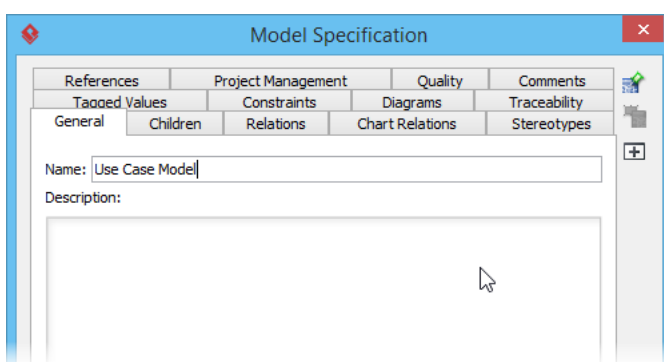
7. On the right hand side of the **Transit Model Element** window, click on ... next to **Parent Model** field. We are going to select a parent for placing the use case.



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

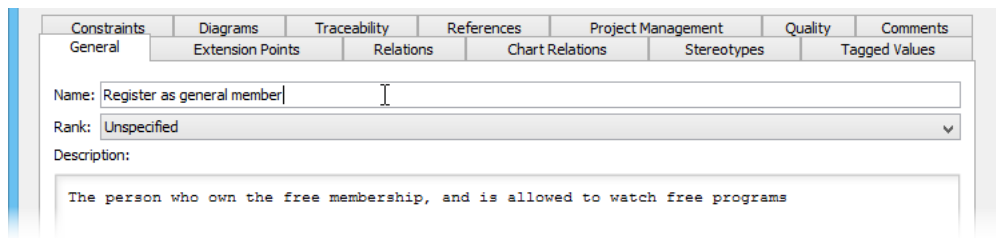


9. Click on **New Model**.
10. Enter *Use Case Model* as model name and click **OK**.

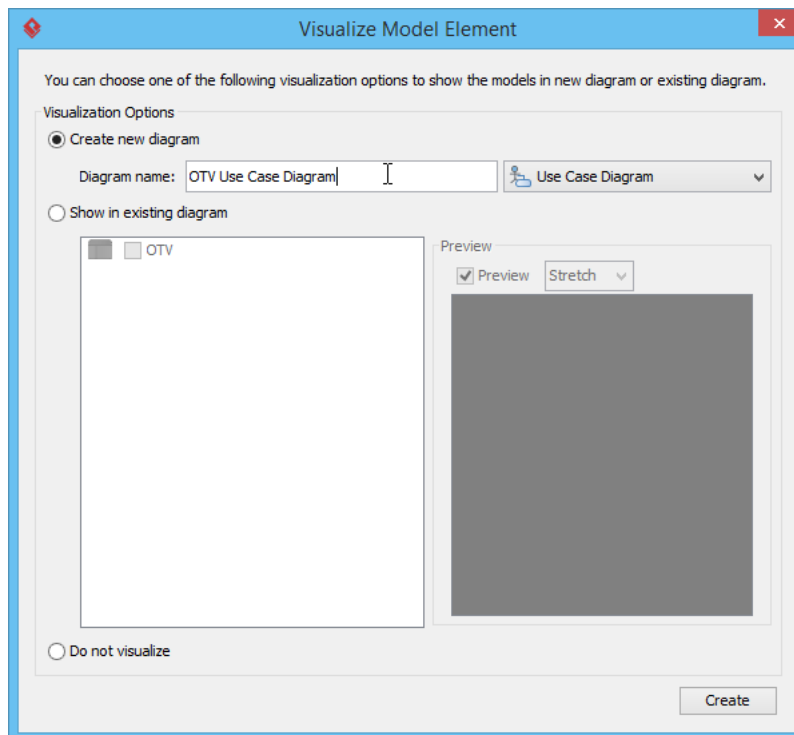


11. Click **OK** in the **Select Parent Model** window to confirm your selection.

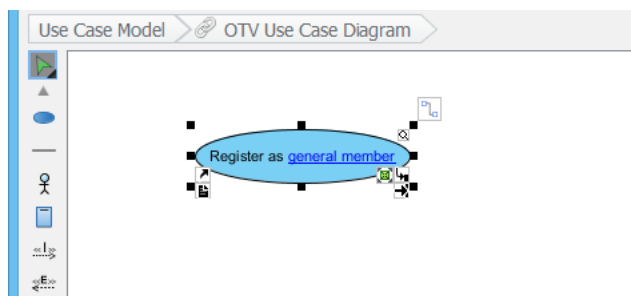
12. Change the name of use case from *general member* to *Register as general member* to match the naming convention of use case.



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*.



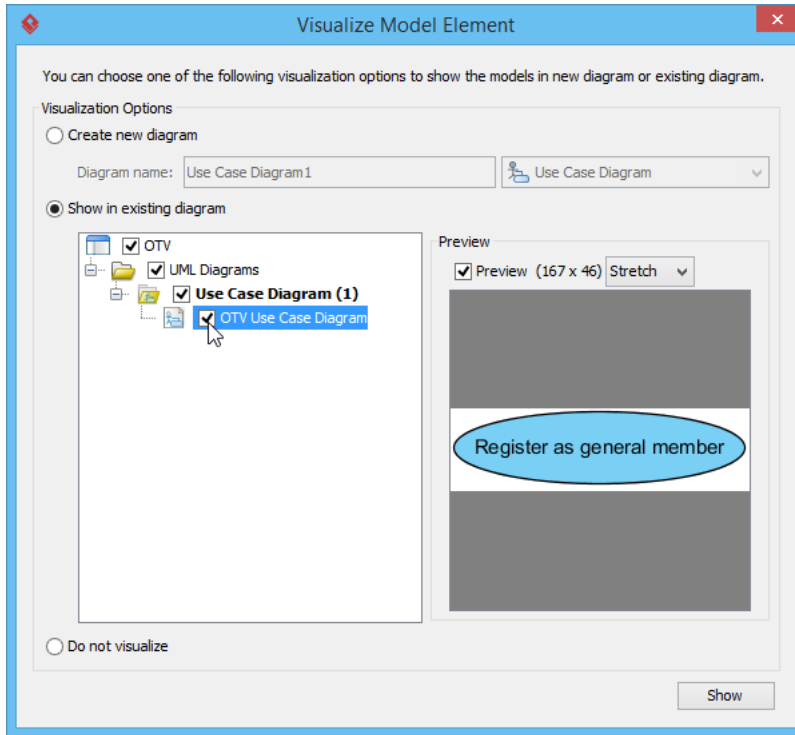
- Click **Create** to continue. You should see a new use case diagram being created, with the case *Register as general member* appear in it.



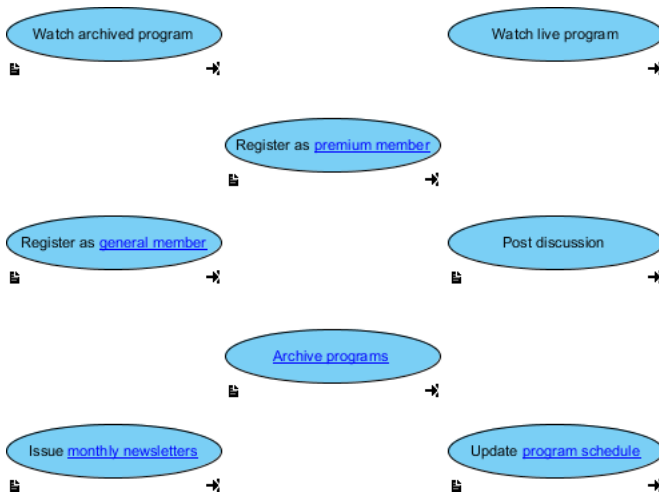
- Press on **Ctrl + Tab** to go back to the glossary grid.
- Repeat the above steps to transit other terms as use cases.

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

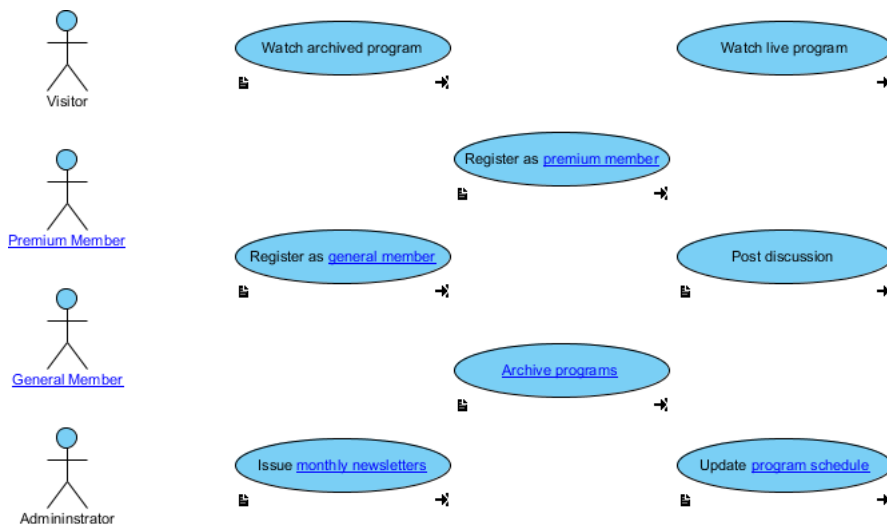
But note that we need to visualize the use cases to the "existing" use case diagram created before.



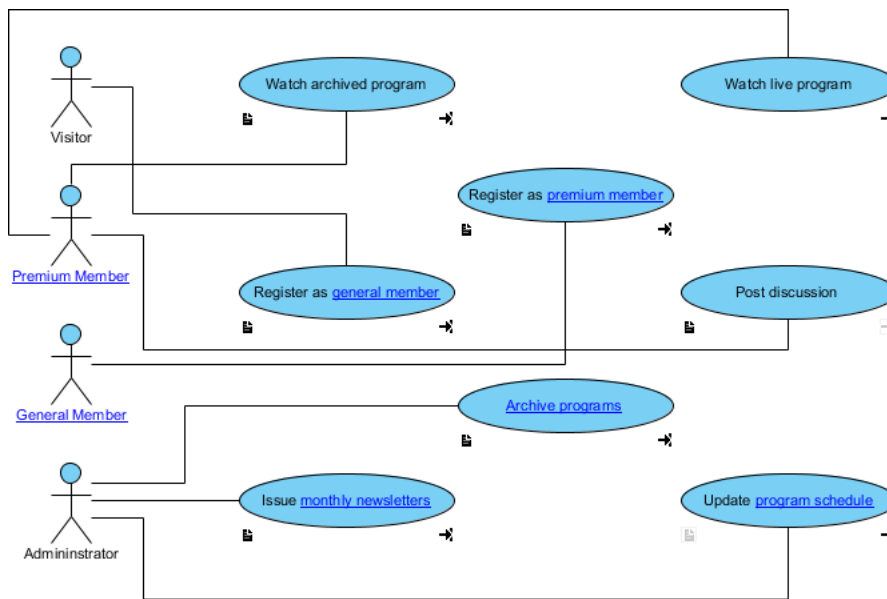
18. When finished, the following use cases are obtained.



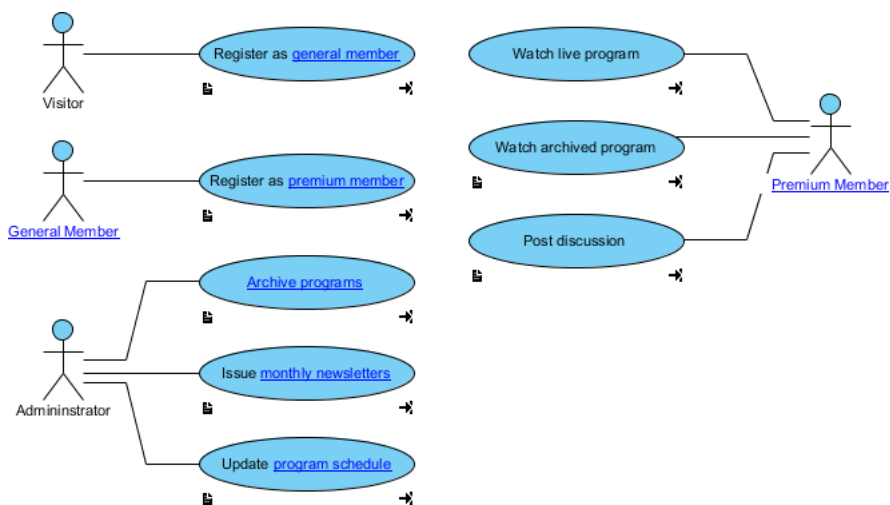
19. Create actors *Visitor*, *General Member*, *Premium Member*, *Administrator*.



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



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



Resources

1. [OTV.vpp](#)

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/>)