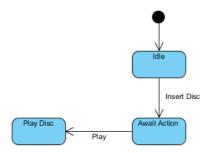


How to Fill-in a UML State's Body?

Written Date : August 16, 2010

You can define entry activity, exit activity and do activity (i.e. activity to perform) for each state in a <u>state machine diagram</u>. Furthermore, you can specify the pre and post condition, and the body for each of them. In this tutorial, you can learn how to specify these values, and how to show/hide them in the state body through updating the presentation options of state.

- 1. Download <u>Disc Player.vpp</u>. You can also find this file at the bottom of this tutorial.
- 2. Open the downloaded .vpp file in Visual Paradigm. To open a project, select **Project > Open** from the application toolbar.
- 3. Take the following state machine diagram as an example:



4. Next, enter values for *Await Action* state. Right-click on *Await Action* state and select **Open Specification...** from the pop-up menu.



5. In the **State Specification** window, you can enter entry activity, do activity and exit activity. Try to enter values for entry. Click on the drop down menu of **Entry**. In the **Activity Specification**, enter name as *Read Disc Info*, precondition as *disc is auto disc* and body as *read disc information*. Click **OK** button.

>	State Specification	
References Stereotypes General Regi	Project Management Quality Comments Tagged Values Constraints Diagrams Traceability ons Deferrable Triggers Relations Chart Relations	
Name:	Await Action	
Entry:	<unspecified> v</unspecified>	
Do activity:	<unspecified></unspecified>	
Exit:	<unspecified></unspecified>	
State invariant:	Activity Specification	×
Redefined state:		1
Documentation:	References Project Management Quality Comments Stereotypes Tagged Values Constraints Diagrams Traceability	
BIUΞΞ		1
	Name: Read Disc Info	+
	Procendition	
	disc is audio disc	
	Postcondition:	
	-	
🔵 Record 👻	Body:	
<u>R</u> eset	read disc information	
	Documentation:	
	<u>BIU</u> EEEEFFr≽≓• *	
	● Record	
	Single execution Read only Reentrant	
	Reset QK Cancel Apply Help	•

6. Edit do activity and exit activity for *Await Action* state following the table as shown below:

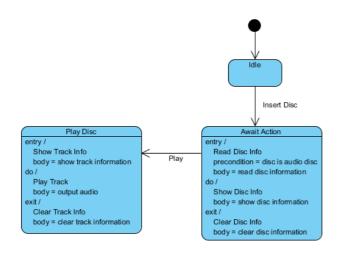
	Name	Body	
Do (activity)	Show Disc Info	Show disc information	
Exit (activity)	Clear Disc Info	Clear disc information	

Now, enter values for *Play Disc* state. Right-click on *Play Disc* state and select **Open Specification...** from the pop-up menu. Enter entry activity, do activity and exit activity following the table as shown below:

	Name	Body
--	------	------

Entry (activity)	Show Track Info	Show track information	
Do (activity)	Play Track	Output audio	
Exit (activity)	Clear Track Info	Clear track information	

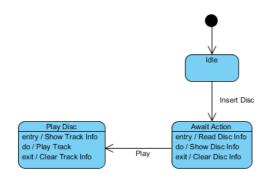
8. The result of editing values for both states:



 If you want to hide the values in the state body. Right-click on the diagram's background and de-select Presentation Options > State Display Options > State Show Pre-condition, Postcondition and Body of Internal Activities from the pop-up menu.

				_			_
	Use Name Tab for States				State Display Options	•	
	Show Region Name			-	 Transition Display Options 	•	
~					Package Display Options	•	
	13				Show Shape Caption Background Color	•	
			Open Specification Add Shape Rename Set as Protocol State Machine Show Quality Checker Panel Paste View Paste Model Element Handi-Selection Diagram Content Connectors Presentation Options		Grid Auto Expand Borders Show Package Header Show Stereotypes Show Tagged Values Show Constraints Show Allocated From Show Allocated To Always Show Model Element Indicators Caption Placement Shape Presentation Option Highlight Glossary Terms	• • •	
			Presentation Options Layers Zoom Layout Select in Tree Show Link Utilities Print Export		Highlight Glossary Terms		

10. The result of hidden value for all states:



Resources

1. Disc Player.vpp



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

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