



## How to Create Test Cases for SysML Requirement?

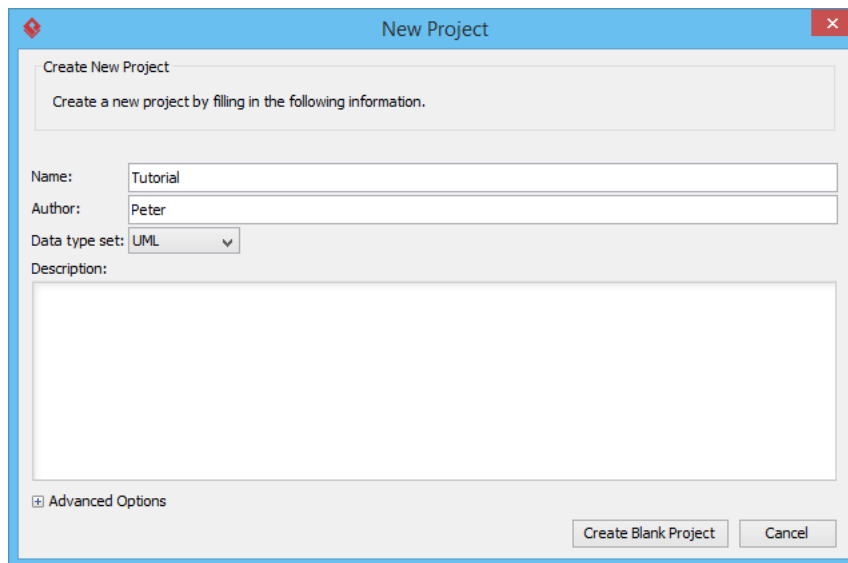
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[SysML Requirement diagram](#) is a useful tool for recording, describing and organization both functional and non-functional requirements of a system. In addition, you can describe how the requirements will be verified with test cases. In this tutorial, we will create a SysML requirement, and then add test cases for validation. Finally, we will walk you through the steps required to produce a report of requirements.

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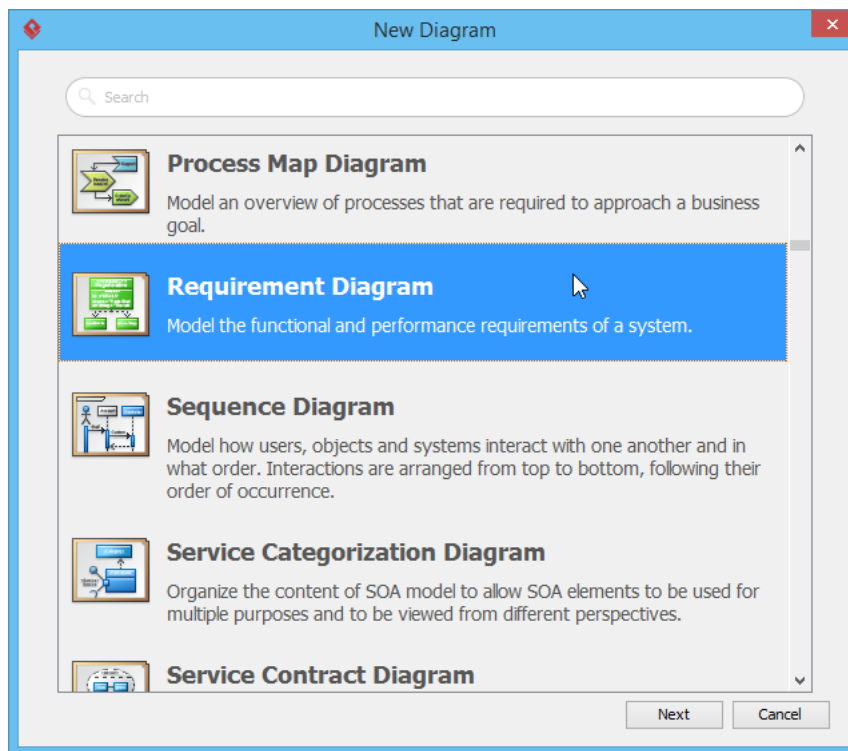
### Creating a simple SysML requirement diagram

1. Select **Project > New** from the application toolbar.
2. In the **New Project** window, enter *Tutorial* as **Name**.

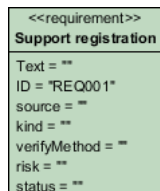


3. Click **Create Blank Project**.

4. Create a SysML requirement diagram first. You can create a requirement diagram by selecting **Diagram > New** from the application toolbar. Select **Requirement Diagram** in the **New Diagram** window and then click **Next**. Click **OK** again to create the diagram.



5. Click a requirement *Support registration*.

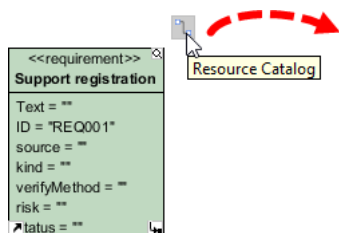


## Creating test cases

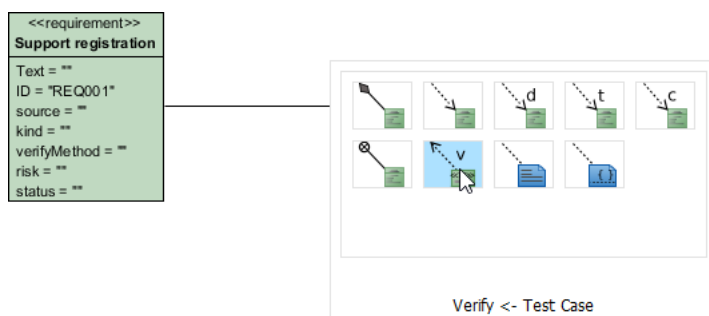
Let's create some test cases for the requirement *Support registration*.

1. Move your mouse pointer over the requirement.

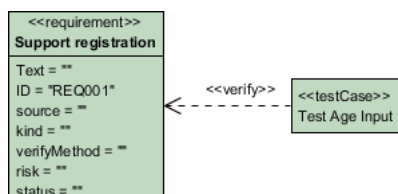
2. Press on the **Resource Catalog** icon and drag it out.



3. Release the mouse button. Select **Verify <- Test Case** from Resource Catalog.

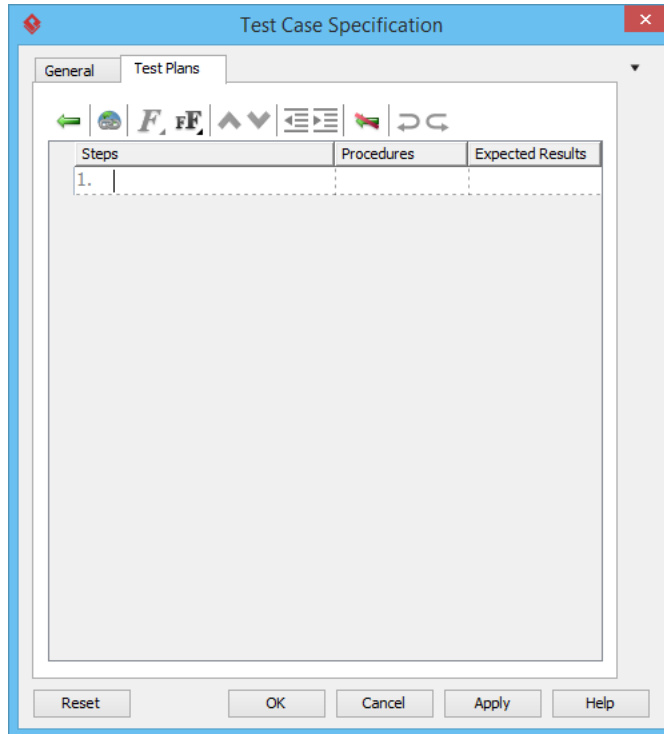


4. Name the test case as *Test Age Input*



5. In addition to having a named test case shape, you can define the steps to test as well. Open the specification by right clicking on test case *Test Age Input* and selecting **Open Specification...** from the popup menu.

- Open the tab **Test Plans**. There are three columns. The **Steps** column defines a set of steps to test the requirement in a more general angle. The **Procedures** column defines also the steps, but in a more concrete manner by providing also test data. The **Expected Results** column is the result expected to achieve by walking through the defined procedures.



- Enter the steps as shown below:

Step	Procedure	Expected Result	Enter user information	Enter: - User name: john - Age: 20	Entered data appear in form
1.					

Script:  
Application  
submit  
submitted



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