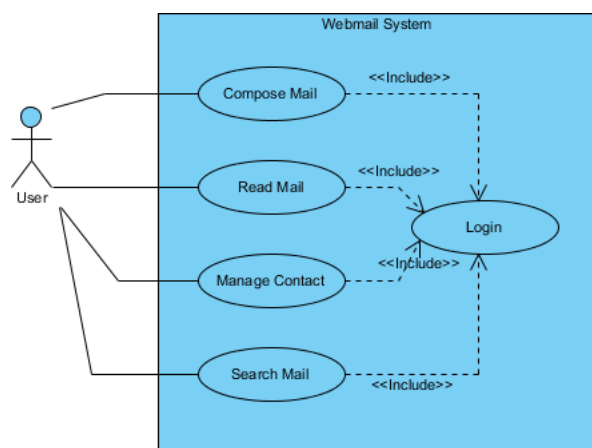




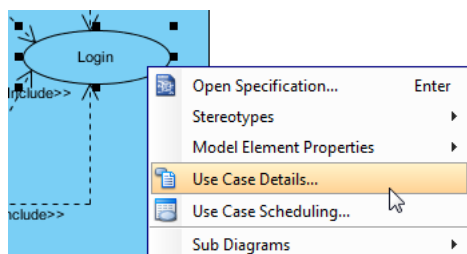
## How to Write Testing Procedure in Use Case Flow of Events?

Written Date : February 22, 2010

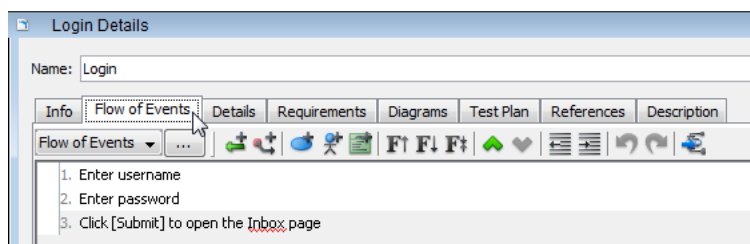
1. Download [Webmail System.vpp](#). You can also find this file at the bottom of this tutorial.
2. Open the downloaded .vpp file in Visual Paradigm. To open a project, select **Project > Open** from the application toolbar.
3. Open the use case diagram *Webmail System Use Case Model*. You should see this:



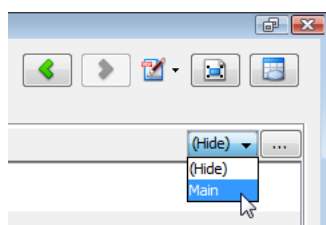
4. We need to edit the test cases for a use case. To do so, open the **Use Case Details** for the *Login* use case by right-clicking on it and selecting **Use Case Details** from the popup menu.



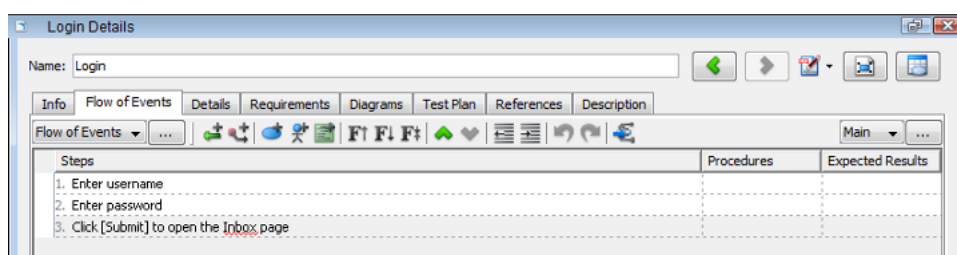
5. Open the **Flow of Events** page. The *Login* use case is formed by a few simple steps: enter username and password, and click Submit. What we need to do is write test cases to make sure these three steps will work as expected in the final product.



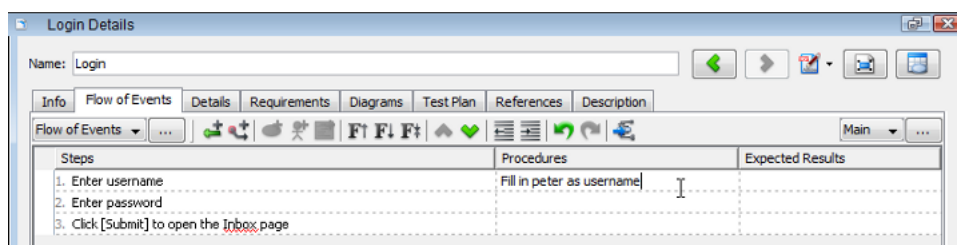
6. Move the mouse pointer to the right-hand side of the flow of events, click the **(Menu)** dropdown menu, and select **Main**. This dropdown menu is for selecting a test case. **Main** is the default.



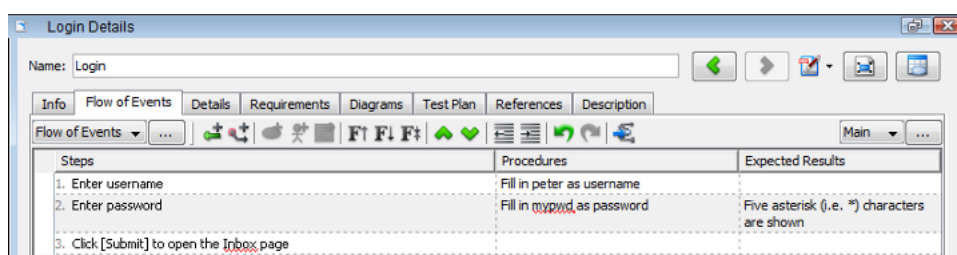
Now, the flow of events page is divided into three columns: **Steps**, **Procedures**, and **Expected Results**. By walking through the steps, the use case is said to be completed. Procedures and expected results are made for testing purposes. Procedures are the steps needed to test a use case step, while expected results are the outcomes expected from performing the testing procedures.



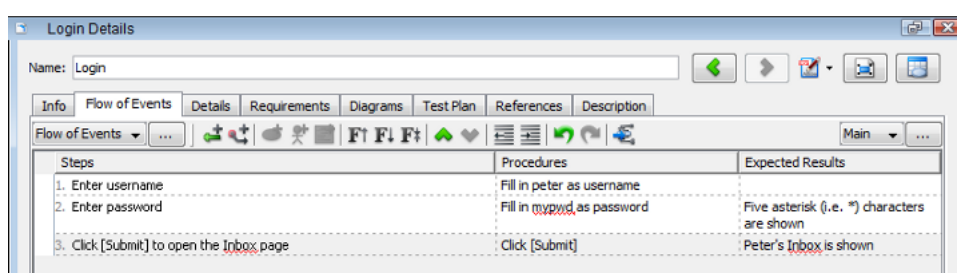
7. We want to start by writing a valid test case. In step one, we will test entering a username by entering 'peter', assuming that 'peter' is a valid and existing user. We expect to have the name 'peter' show in the username field. Enter *Fill in peter as username* in the **Procedures** cell for step 1. Since there is no doubt that entering text in a field will make the text appear, we will omit the expected results here. If you like, you can still enter *Text "peter" shown in username field*, but it would be a bit cumbersome.



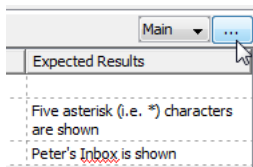
8. For step two, *Enter password*, specify *Fill in mypwd as password* in the **Procedures** cell. To make sure a proper password field is used, we need to specify the expected result by entering *Five asterisk (\*) characters are shown* in the **Expected Results** cell.



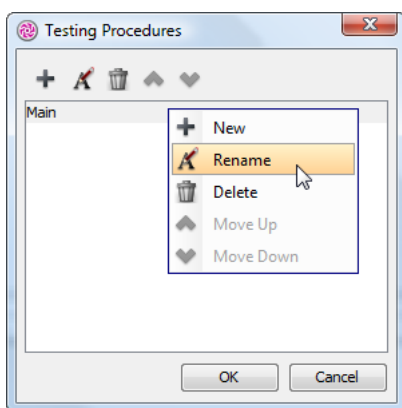
9. For step three, specify *Click [Submit]* in the **Procedures** cell. Enter *Peter's Inbox is shown* in the **Expected Results** cell.



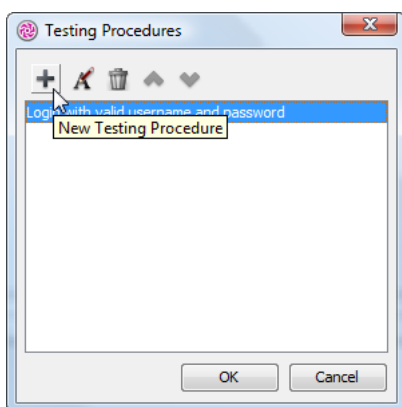
10. The test case name **Main** is not descriptive enough. Let's change it. Click the ... button next to the **Main** dropdown menu.



11. In the **Testing Procedures** dialog box, right-click **Main** and select **Rename** from the popup menu. Enter *Login with valid username and password* as the name.



12. Let's add another test case for testing invalid usage. In the **Testing Procedures** dialog box, click the + button and enter *Login without username and password* as the name. Confirm the changes and go back to the Flow of Events page.



13. The test case is now *Login without username and password*. Let's fill in the procedures and expected results as shown below:

Steps	Procedures	Expected Results
Enter username	Do not enter anything	

Enter password	Do not enter anything	
Click [Submit] to open the Inbox page	Click [Submit]	Warning: "Please specify username and password" appears. Login is aborted.

14. Save the project. This ends the tutorial.

#### Resources

1. [Webmail System.vpp](#)



[Visual Paradigm home page](https://www.visual-paradigm.com/)  
(<https://www.visual-paradigm.com/>)

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