

COMP212 Programming 3

2020F - Lab3

Goals:

In this assignment, you will learn how to create and use a WPF User Control. You will also learn the interaction of the user control through a custom dependency property.

Rubric: (Total marks = 10, Weight = 10%)

Cases
One user control consisting of one TextBox and three TextBlocks. One TextBox surrounded by a red border is present outside the user control.
A custom dependency property named MyFlower (of type string) exists as part of the user control. This property is the medium of communication between relevant TextBoxes and the relevant TextBlock.
The string Rose is visible in relevant locations when you start the app. See diagrams below for clarification.
As soon as you start changing the text in any one of the TextBoxes, the change shows up in other relevant locations. See diagrams below for clarification.

Evaluation Focus:

- Correct implementation of requirements
- Explanation of solution when asked
- Answer questions on the relevant/related topic when asked

Instructions:

1. You are supposed to use Visual Studio 2019. You can use the free Community edition.
2. Go to **eCentennial** > Assessments > Assignment > Click lab3
3. In the lab3 page, you have the item:
 - a. the document `comp212.2020F.lab3.pdf` (the one that you are reading now)

Use of WPF user control through custom dependency property

Figures try to show how the app should work.

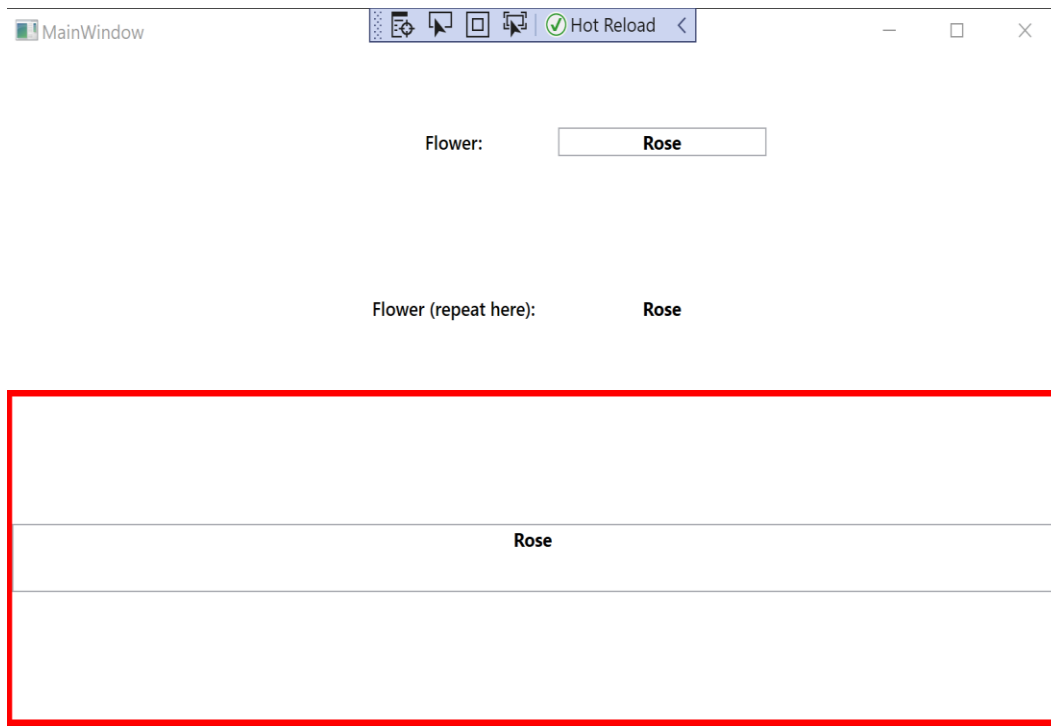


Figure 1. The app starts. The user control is outside the red border.

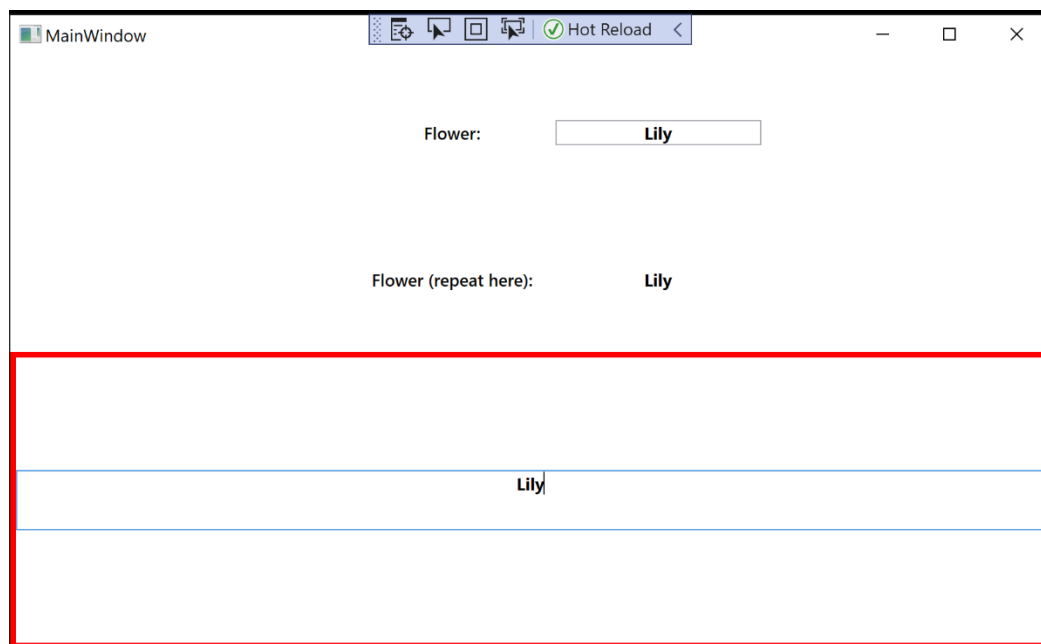


Figure 2. Text is changed in the TextBox that is outside the user control.

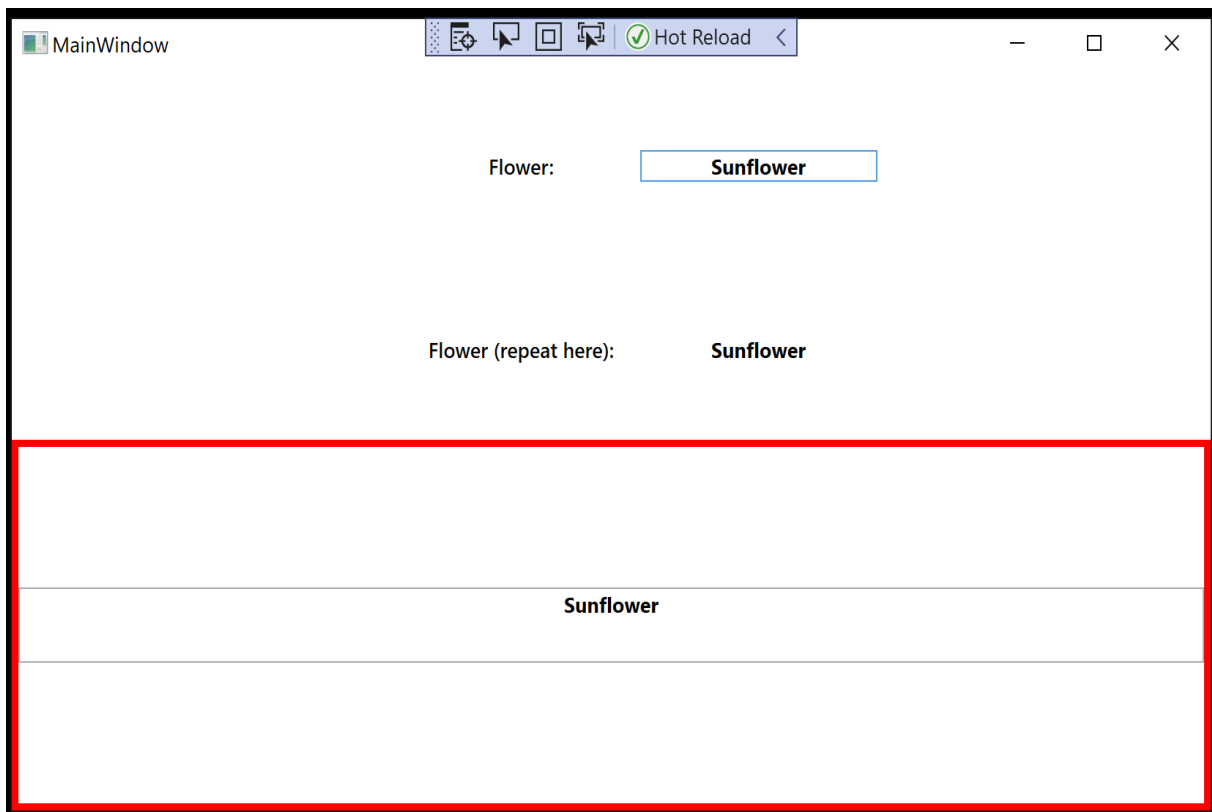


Figure 3. Text is changed in the TextBox that is part of the user control.

Submission of Assignment:

1. **Submit the solution to lab3 drop-box by drop-box deadline.**
2. Make sure there is one project folder **Proj1** under the Visual Studio solution folder **lab3**.
3. In Visual Studio, in Solution Explorer, right-click on the solution **lab3** and select **Clean Solution**.
4. Compress the Visual Studio solution folder **lab3** and all its contents into a single zip file. This will be your submission file. You **MUST** name your submission file according to the following rule:
groupNumber_COMP212_labNumber.zip
Example: group1_COMP212_lab3.zip
5. **Next, submit above zip file on eCentennial through the Assignment link.**