

## Extend Functionality of a Task Activity

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Write an extension to add functionality to a Task Execute procedure. Task Execute occurs on the following operations:

- Submit
- Fetch
- Return
- Assign
- Others

This example shows how to perform an action during submit, fetch, or return operations.

### Activate the Code

1. Add a class library to your solution. Add the relevant references.
  - *PNMsoft.Sequence*
  - *PNMsoft.Sequence.Forms*
  - *PNMsoft.Sequence.Security*
  - *PNMsoft.Sequence.Extension*
2. Strongly sign the project.
3. Complete the code in the relevant places, and compile the assembly.
4. Put the assembly in the GAC.
5. Insert a new record into *tblTemplateWorkflowExtensions*.
  - a. In *fldType*, type the assembly strong name.
  - b. In *fldGuid*, type the GUID in the class decorator.

**NOTE:** If your code raises an exception, execution will continue.

```
//*****  
//  
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//  
// THIS CODE IS PROVIDED *AS IS* WITHOUT WARRANTY OF  
// ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING ANY  
// IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR  
// PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT.  
//  
//*****  
  
using System;  
using PNMsoft.Sequence;  
using PNMsoft.Sequence.Forms.Activities;  
using PNMsoft.Sequence.Forms.Activities.Operations;  
  
namespace SequenceEx.Tasks.Samples  
{  
    [WorkflowElementExtension("Generated Guid", Name = "TaskActivityExtension")]  
    public sealed class TaskActivityExtension : WorkflowElementExtension  
    {  
        public TaskActivityExtension()  
        {  
        }  
    }  
  
    protected override void OnAttached()  
    {
```

```
base.OnAttached();

this.Owner.Executed += new EventHandler(OnActivityExecuted);
}

protected override void OnDetached()
{
base.OnDetached();

this.Owner.Executed -= new EventHandler(OnActivityExecuted);
}

private void OnActivityExecuted(object sender, ActivityExecutedEventArgs e)
{
object inputData = e.Context.InputData;

if (inputData is SubmitTaskOperationContext)
{
SubmitTaskOperationContext submitTaskOperationContext = (SubmitTaskOperationContext)inputData;

//Insert your code here.
}
else if (inputData is FetchTaskOperationContext)
{
FetchTaskOperationContext fetchTaskOperationContext = (FetchTaskOperationContext)inputData;

//Insert your code here.
}
else if (inputData is ReturnTaskOperationContext)
{
ReturnTaskOperationContext returnTaskOperationContext = (ReturnTaskOperationContext)inputData;

//Insert your code here.
}
}
}
```