



Advanced UFT 12 for Test Engineers Cookbook

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## Building a reusable component (action)

The controller was designed to load, configure, and execute **Action Based Testing (ABT)** or **Business Process Testing (BPT)**, which are classes built as command wrappers with a common **Run** method in which the main flow of the Action is implemented. In this section, we will see how to implement such an action.

### Getting ready

From the **File** menu, navigate to **New | Function Library...**, or use **Alt + Shift + N** shortcut. Save the file as **cls.Actions.vbs** in the **C:\Automation\Lib** folder.

### How to do it...

As mentioned before, a reusable component (action) is a class that implements the command wrapper design pattern. The following code shows the sample class **Login** as a typical example for an Action within this framework:

```
Class [Login]
' -----
' Reusable Action: Login
' Description: Login to the application
' -----
Public Status
Public Iteration
Public StepNum
Public dt
Public Details

Public Function Run()
    me.Details = "Ended with "
    me.Status.=[0]
    '---
    me.Status.=[1]EnterUsername()
    me.Status.=[2]EnterPassword()
    me.Status.=[3]ClickOnLoginButton()

    '--- Report
    Call ReportActionStatus(me)
End Function

Function EnterUsername()
    EnterUsername = me.Parent.WebEdit("txtUsername").Set(dt.GetParam
End Function

Function EnterPassword()
    EnterPassword = me.Parent.WebEdit("txtPassword").Set(dt.GetParam
End Function

Function ClickOnLoginButton()
    ClickOnLoginButton = me.Parent.WebButton("btnLogin").Click
End Function

Property Get Parent()
    Set Parent = Browser("MyStore").Page("Main")
End Property

Private Sub Class_Initialize
    Call InfoClassInstance(me, C_OBJ_LOADED_MSG)
    Set me.Status = [As Num] (0)
End Sub

Private Sub Class_Terminate
    Call InfoClassInstance(me, C_OBJ_UNLOADED_MSG)
    Set me.Status = Nothing
End Sub
End Class
```

**Note**

The Test Objects referred to in the internal methods of the class are for illustration purposes only.

**How it works...**

The controller creates an instance of the `Login` class when it finds its name in the `Steps` datasheet and is planned to run (the `RUN` parameter equals `TRUE`).

It then invokes the object's `Run` method, in which the main flow of the Action is coded. Note that additional fields, functions, subroutines, and properties can be added to extend the basic pattern of an action; thus making it a very powerful and flexible tool to encapsulate basic blocks of code, which are usually business-oriented functions. The `Run` method finally invokes the `ReportActionStatus` function, which takes care to send the information accumulated during the process to the UFT reporter.

Note how data is referred to in the internal functions:

```
dt.GetParameter("USERNAME")
```

Through the `dt` field of the Action, which was set by the controller with a reference to the `LocalSheet` DataTable, we can retrieve the values of any of the required parameters.

