



Getting ready

pointers.

Create a new function library (for instance, cls.FunctionPointers.vbs) and associate it with your test.

1. Write the following code in the function library:

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How to do it...

Class WebEditSet

Public Default Function Run(ByRef obj, ByVal sText)

On Error Resume Next

Run = 1 "micFall (pessimistic initialization)
Select Case True

Case obj. Esist(0) And_
obj. OseRDPorperty("visible") And_
obj. OseRDPorperty("enabled")

"Perform the set operation
obj. Set (GText)

Case Else

Reporter. ReportEvent micWarning, TypeName (me), "Obj
Exit Function

End Select

If Err. Number = 0 Then

Run = 0 'micPase

End If
End Punction

End Class

V

Write the following code in Action:

Dim pPunctiontion
Set phunctiontion New MebEditSet

Reporter. ReportEvent pPunctiontion (Browser("Google"). Fage ("Google")

**Punction Reporter. ReportEvent pPunction(Browser("Google"). Fage ("Google")

How it works...

The WebEditSet class actually implements the command wrapper design pattern (refer also to the Implementing a generic Login class recipe). This recipe also demonstrates an alternative way of overriding any native UFT TO method without recurring to the *RegisterUserEvnc</code> method.

First, we create an instance of the WebEditSet class and set the reference to our pFunctiontion Variable. Note that the Run method of WebEditSet is declared as a default function, so we can invoke its execution by merely referring to the object reference, as is done with the statement pFunctiontion in the last line of code in the How to do it... section. This way, pFunctiontion actually functions as if it were a function pointer. Let us take a close look at the following line of code, beginning with Reporter. ReportEvent:



We call the ReportEvent method of Reporter, and as its first parameter, instead of a status constant such as micPass or micPail, we pass pFunctiontion and the arguments accepted by the Run method (the target TO and its parameter, a string). This way of using the function pointer actually implements a kind of callback. The value returned by the Run method of WebEditSet will determine whether UFT will report a success or failure in regard to the Set operation. It will return through the call invoked by accessing the function pointer.

See also

The following articles are part of a wider collection at www.advancedqtp.com (http://www.advancedqtp.com), which also discusses function pointers in death:

- An article by Meir Bar-Tal at http://www.advancedqtp.com/ function-pointers-in-vb-script-revised (http://www.advancedqtp.com/%20function-pointers-in-vb-script-revised)
- An article by Meir Bar-Tal at http://www.advancedqtp.com/using-tocustom-property-as-function-pointer (http://www.advancedqtp.com/using-tocustom-property-as-function-pointer)



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