

Re: Recognizing When An IE window changes URLs and closing the IE

Source:

<http://www.tech-archive.net/Archive/Excel/microsoft.public.excel.programming/2008-04/msg04723.html>

- *From:* Chris <Chris@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 23 Apr 2008 05:53:02 -0700
-

Mark:

I used someone else's solution I eventually found. It involved using a Class Module. I am posting the code here. Your code did help me amend the code. I was just making the instance of IE not visible instead of quitting. To the person who supplied the code, thanks.

Class Module Code:

```
Public WithEvents x As InternetExplorer
Public y As InternetExplorer
```

```
Private Declare Function FindWindow Lib "user32" Alias "FindWindowA" (ByVal _
lpClassName As String, ByVal lpWindowName As String) As Long
Private Declare Function PostMessage Lib "user32" Alias "PostMessageA"
(ByVal hwnd As Long, ByVal wParam As Long, ByVal lParam _
As Long) As Long
```

```
Private Sub x_NewWindow2(ppDisp As Object, Cancel As Boolean)
Set y = ppDisp
End Sub
```

```
Public Sub SetVisible(visible As Boolean)
x.visible = visible
End Sub
```

```
Public Sub Navigate(destURL)
x.Navigate2 destURL
LoadPage
End Sub
```

```
Public Sub LoadPage()
' Pauses execution until the browser window has finished loading
Do While x.Busy Or x.ReadyState <> READYSTATE_COMPLETE
PostMessage FindWindow("#32770", "Microsoft Internet Explorer"), _
&H10, 0&, 0&
DoEvents
```

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```
Loop  
End Sub
```

```
Public Function Button_name(tagType, Caption As String) As Boolean  
' Clicks the element of type tagType containing Caption or returns false if  
element cannot be found  
Dim Element
```

```
Button = True
```

```
Dim AllElements  
Set AllElements = x.Document.getElementsByTagName(tagType)
```

```
For Each Element In AllElements  
tempAlt = Element.Name  
If InStr(Element.Name, Caption) > 0 Then  
Call Element.Click  
Call LoadPage  
Exit Function  
End If  
Next Element  
Button = False  
End Function
```

```
Module 1 Subroutine
```

```
Sub URL_Test2()  
Dim ie1 As New IEClass  
Set ie1.x = New InternetExplorer  
ie1.SetVisible True
```

```
Dim varURL As String  
varURL = "http://secure website"  
ie1.Navigate varURL
```

```
Dim user, pword As String ' Declares the variables for the suername, old  
password and new password  
Dim curRow, CurCol As Integer ' Declares the variables for the current row  
and current column, used to change to the next user  
Dim NoRows ' Declares the variable to set the iterations of the loop  
Dim IEPage, IESuccess As String
```

```
On Error GoTo Here ' Error handling sequence that breaks the loop, displays  
a messagebox, and ends the subroutine  
,
```

```
curRow = 1 ' sets the current row to the first row in the spreadsheet  
CurCol = 2 ' sets the current column to the second column in the  
spreadsheet  
NoRows = Worksheets("Sheet1").Cells(curRow, CurCol).Value 'Assigns the
```

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number of rows variable NoRows to the value located in the current cell at row 1, column 2

curRow = curRow + 3 ' increments the current row by 3 to make the current row the fourth row in the spreadsheet

CurCol = CurCol - 1 ' decreases the current column by 1 to make the current column the first column in the spreadsheet

IESuccess = "http://Correctly changed website"

For Counter = 1 To NoRows ' The beginning of the loop with a range of 1 to the number of rows stored in the NoRows variable

newHour = Hour(Now()) ' An undimensioned variable that is set to the current hour based on the computer system time

newMinute = Minute(Now()) ' An undimensioned variable that is set to the current minute based on the computer system time

newSecond = Second(Now()) + 3 ' An undimensioned variable that is set to the current second based on the computer system time and adds 3 seconds

waitTime = TimeSerial(newHour, newMinute, newSecond) ' An undimensioned variable that is set to the current hour, minute and seconds plus based on the computer system time This is used as a pause in the loop

user = Worksheets("Sheet1").Cells(curRow, CurCol).Value ' assigns the user variable to the username in the first column and the current row as defined by the for next loop

CurCol = CurCol + 1 ' changes the current column to the second column on the worksheet

pwd = Worksheets("Sheet1").Cells(curRow, CurCol).Value ' assigns the oldpwd variable to the password in the second column and the current row as defined by the for next loop

varURL = "http://secure web site"

ie1.Navigate varURL

'ActiveWorkbook.FollowHyperlink Address:="https://secure website", _

'NewWindow:=True ' Opens a new web browser window to the change password URL

Application.Wait waitTime

Application.SendKeys (user)

Application.SendKeys (" {TAB} ")

Application.SendKeys (pwd)

Application.SendKeys ("~")

Application.SendKeys (" {TAB} ")

Application.SendKeys ("~")

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```
newSecond = Second(Now()) + 7
```

```
waitTime = TimeSerial(newHour, newMinute, newSecond)
```

```
Application.Wait waitTime
```

```
IEPage = ie1.x.LocationURL
```

```
If IEPage = IESuccess Then
```

```
Worksheets("Sheet1").Cells(curRow, 5).Value = "complete"
```

```
Application.Cells(curRow, 5).Activate
```

```
Application.ActiveCell.Font.Color = RGB(0, 255, 0) ' Changes the  
font to the color green to indicate the value has been changed.
```

```
Else
```

```
Worksheets("Sheet1").Cells(curRow, 5).Value = "ERROR"
```

```
Application.Cells(curRow, 5).Activate
```

```
Application.ActiveCell.Font.Color = RGB(255, 0, 0) ' Changes the  
font to the color red to indicate the value has been changed.
```

```
End If
```

```
curRow = curRow + 1 ' Increments the current row by one
```

```
CurCol = CurCol - 1 ' Changes to current column to the first column  
on the worksheet
```

```
Next Counter ' The end of the For Next Loop. If the loop is not  
finished it restarts the loop. If the loop is finished, it ends the loop and  
goes to the next line of the subroutine
```

```
GoTo EndSub ' Jumps to a bookmark titled EndSub
```

```
Here: ' A bookmark called Here used by the error handler
```

```
MsgBox ("An error has occurred. Check the last window to determine the  
stopped point.") ' A pop up message box to inform the user that an error has  
occurred
```

```
EndSub: ' A bookmark called EndSub used to jump over the error handler code
```

```
ie1.Quit
```

```
End Sub
```

"Mark Ivey" wrote:

Here is one I modded from the following website:

<http://www.codingforums.com/showthread.php?t=125767>

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Maybe it will get you started.

Mark Ivey

```
Sub test()
Set oIE = CreateObject("InternetExplorer.Application")
oIE.Navigate "about:blank"

Do
Loop While oIE.Busy

oIE.Visible = True

Application.Wait Now + TimeValue("00:00:05")

oIE.Document.WriteLine "<html><head><title>Page Title</title></head><body><div
id='output'>test</div></body></html>"

Set oDIV = oIE.Document.All("output")

'Wait 5 seconds then change the output int the window
Application.Wait Now + TimeValue("00:00:05")

oDIV.InnerHTML = "I changed it"

'Wait 5 seconds then close the application
Application.Wait Now + TimeValue("00:00:05")

oIE.Quit
End Sub
```