# MODULE

## TEMPLATE PROJECT

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

'---- DECLARE VARIABLE ----'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Public TWB As Workbook, SH\_HOME As Worksheet

Public LR As Long, LC As Long, i As Long

# USERFORM

## SCROL MOUSE

### IN MODULE

Option Explicit

#If Win64 Then

Private Type POINTAPI

XY As LongLong

End Type

#Else

Private Type POINTAPI

X As Long

Y As Long

End Type

#End If

Private Type MOUSEHOOKSTRUCT

Pt As POINTAPI

hWnd As Long

wHitTestCode As Long

dwExtraInfo As Long

End Type

#If VBA7 Then

Private Declare PtrSafe Function FindWindow Lib "user32" \_

Alias "FindWindowA" ( \_

ByVal lpClassName As String, \_

ByVal lpWindowName As String) As LongPtr ' not sure if this should be LongPtr

#If Win64 Then

Private Declare PtrSafe Function GetWindowLongPtr Lib "user32" \_

Alias "GetWindowLongPtrA" ( \_

ByVal hWnd As LongPtr, \_

ByVal nIndex As Long) As LongPtr

#Else

Private Declare PtrSafe Function GetWindowLong Lib "user32" \_

Alias "GetWindowLongA" ( \_

ByVal hWnd As LongPtr, \_

ByVal nIndex As Long) As LongPtr

#End If

Private Declare PtrSafe Function SetWindowsHookEx Lib "user32" \_

Alias "SetWindowsHookExA" ( \_

ByVal idHook As Long, \_

ByVal lpfn As LongPtr, \_

ByVal hmod As LongPtr, \_

ByVal dwThreadId As Long) As LongPtr

Private Declare PtrSafe Function CallNextHookEx Lib "user32" ( \_

ByVal hHook As LongPtr, \_

ByVal nCode As Long, \_

ByVal wParam As LongPtr, \_

lParam As Any) As LongPtr

Private Declare PtrSafe Function UnhookWindowsHookEx Lib "user32" ( \_

ByVal hHook As LongPtr) As LongPtr ' MAYBE Long

'Private Declare PtrSafe Function PostMessage Lib "user32.dll" \_

' Alias "PostMessageA" ( \_

' ByVal hwnd As LongPtr, \_

' ByVal wMsg As Long, \_

' ByVal wParam As LongPtr, \_

' ByVal lParam As LongPtr) As LongPtr ' MAYBE Long

#If Win64 Then

Private Declare PtrSafe Function WindowFromPoint Lib "user32" ( \_

ByVal Point As LongLong) As LongPtr '

#Else

Private Declare PtrSafe Function WindowFromPoint Lib "user32" ( \_

ByVal xPoint As Long, \_

ByVal yPoint As Long) As LongPtr '

#End If

Private Declare PtrSafe Function GetCursorPos Lib "user32" ( \_

ByRef lpPoint As POINTAPI) As LongPtr 'MAYBE Long

#Else

Private Declare Function FindWindow Lib "user32" \_

Alias "FindWindowA" ( \_

ByVal lpClassName As String, \_

ByVal lpWindowName As String) As Long

Private Declare Function GetWindowLong Lib "user32.dll" \_

Alias "GetWindowLongA" ( \_

ByVal hWnd As Long, \_

ByVal nIndex As Long) As Long

Private Declare Function SetWindowsHookEx Lib "user32" \_

Alias "SetWindowsHookExA" ( \_

ByVal idHook As Long, \_

ByVal lpfn As Long, \_

ByVal hmod As Long, \_

ByVal dwThreadId As Long) As Long

Private Declare Function CallNextHookEx Lib "user32" ( \_

ByVal hHook As Long, \_

ByVal nCode As Long, \_

ByVal wParam As Long, \_

lParam As Any) As Long

Private Declare Function UnhookWindowsHookEx Lib "user32" ( \_

ByVal hHook As Long) As Long

'Private Declare Function PostMessage Lib "user32.dll" \_

' Alias "PostMessageA" ( \_

' ByVal hwnd As Long, \_

' ByVal wMsg As Long, \_

' ByVal wParam As Long, \_

' ByVal lParam As Long) As Long

Private Declare Function WindowFromPoint Lib "user32" ( \_

ByVal xPoint As Long, \_

ByVal yPoint As Long) As Long

Private Declare Function GetCursorPos Lib "user32.dll" ( \_

ByRef lpPoint As POINTAPI) As Long

#End If

Private Const WH\_MOUSE\_LL As Long = 14

Private Const WM\_MOUSEWHEEL As Long = &H20A

Private Const HC\_ACTION As Long = 0

Private Const GWL\_HINSTANCE As Long = (-6)

'Private Const WM\_KEYDOWN As Long = &H100

'Private Const WM\_KEYUP As Long = &H101

'Private Const VK\_UP As Long = &H26

'Private Const VK\_DOWN As Long = &H28

'Private Const WM\_LBUTTONDOWN As Long = &H201

Dim n As Long

Private mCtl As Object

Private mbHook As Boolean

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Const scrollOnly As Boolean = True ' set to False to actually move selection when scrolling mouse wheel

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#If VBA7 Then

Private mLngMouseHook As LongPtr

Private mListBoxHwnd As LongPtr

#Else

Private mLngMouseHook As Long

Private mListBoxHwnd As Long

#End If

Sub HookListBoxScroll(frm As Object, ctl As Object)

' big thanks to Peter Thornton (https://social.msdn.microsoft.com/Forums/en-US/9255d7d6-0266-45aa-9589-7533bd82d591/need-help-with-macro-to-make-an-userform-able-to-scroll-with-a-mouse?forum=isvvba)

' as well as user 'Fhorst' for 64 bit conversion help.

' option for scrolling

Dim tPT As POINTAPI

#If VBA7 Then

Dim lngAppInst As LongPtr

Dim hwndUnderCursor As LongPtr

#Else

Dim lngAppInst As Long

Dim hwndUnderCursor As Long

#End If

GetCursorPos tPT

#If Win64 Then

hwndUnderCursor = WindowFromPoint(tPT.XY)

#Else

hwndUnderCursor = WindowFromPoint(tPT.X, tPT.Y)

#End If

If TypeOf ctl Is UserForm Then

If Not frm Is ctl Then

ctl.SetFocus

End If

Else

If Not frm.ActiveControl Is ctl Then

ctl.SetFocus

End If

End If

If mListBoxHwnd <> hwndUnderCursor Then

UnhookListBoxScroll

Set mCtl = ctl

mListBoxHwnd = hwndUnderCursor

#If Win64 Then

lngAppInst = GetWindowLongPtr(mListBoxHwnd, GWL\_HINSTANCE)

#Else

lngAppInst = GetWindowLong(mListBoxHwnd, GWL\_HINSTANCE)

#End If

' PostMessage mListBoxHwnd, WM\_LBUTTONDOWN, 0&, 0&

If Not mbHook Then

mLngMouseHook = SetWindowsHookEx( \_

WH\_MOUSE\_LL, AddressOf MouseProc, lngAppInst, 0)

mbHook = mLngMouseHook <> 0

End If

End If

End Sub

Sub UnhookListBoxScroll()

If mbHook Then

Set mCtl = Nothing

UnhookWindowsHookEx mLngMouseHook

mLngMouseHook = 0

mListBoxHwnd = 0

mbHook = False

End If

End Sub

#If VBA7 Then

Private Function MouseProc( \_

ByVal nCode As Long, ByVal wParam As Long, \_

ByRef lParam As MOUSEHOOKSTRUCT) As LongPtr

Dim idx As Long

On Error GoTo errH

If (nCode = HC\_ACTION) Then

#If Win64 Then

If WindowFromPoint(lParam.Pt.XY) = mListBoxHwnd Then

If wParam = WM\_MOUSEWHEEL Then

MouseProc = True

' If lParam.hWnd > 0 Then

' postMessage mListBoxHwnd, WM\_KEYDOWN, VK\_UP, 0

' Else

' postMessage mListBoxHwnd, WM\_KEYDOWN, VK\_DOWN, 0

' End If

' postMessage mListBoxHwnd, WM\_KEYUP, VK\_UP, 0

If TypeOf mCtl Is Frame Then

If lParam.hWnd > 0 Then idx = -10 Else idx = 10

idx = idx + mCtl.ScrollTop

If idx >= 0 And idx < ((mCtl.ScrollHeight - mCtl.Height) + 17.25) Then

mCtl.ScrollTop = idx

End If

ElseIf TypeOf mCtl Is UserForm Then

If lParam.hWnd > 0 Then idx = -10 Else idx = 10

idx = idx + mCtl.ScrollTop

If idx >= 0 And idx < ((mCtl.ScrollHeight - mCtl.Height) + 17.25) Then

mCtl.ScrollTop = idx

End If

Else

If lParam.hWnd > 0 Then idx = -1 Else idx = 1

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAKE scrollOnly False IF YOU WANT TO CHANGE THE SELECTION RATHER THAN JUST SCROLL \*\*\*\*\*\*

If scrollOnly Then

idx = idx + mCtl.TopIndex

If idx >= 0 Then mCtl.TopIndex = idx

Else

idx = idx + mCtl.ListIndex

If idx >= 0 Then mCtl.ListIndex = idx

End If

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End If

Exit Function

End If

Else

UnhookListBoxScroll

End If

#Else

If WindowFromPoint(lParam.Pt.X, lParam.Pt.Y) = mListBoxHwnd Then

If wParam = WM\_MOUSEWHEEL Then

MouseProc = True

' If lParam.hWnd > 0 Then

' postMessage mListBoxHwnd, WM\_KEYDOWN, VK\_UP, 0

' Else

' postMessage mListBoxHwnd, WM\_KEYDOWN, VK\_DOWN, 0

' End If

' postMessage mListBoxHwnd, WM\_KEYUP, VK\_UP, 0

If TypeOf mCtl Is Frame Then

If lParam.hWnd > 0 Then idx = -10 Else idx = 10

idx = idx + mCtl.ScrollTop

If idx >= 0 And idx < ((mCtl.ScrollHeight - mCtl.Height) + 17.25) Then

mCtl.ScrollTop = idx

End If

ElseIf TypeOf mCtl Is UserForm Then

If lParam.hWnd > 0 Then idx = -10 Else idx = 10

idx = idx + mCtl.ScrollTop

If idx >= 0 And idx < ((mCtl.ScrollHeight - mCtl.Height) + 17.25) Then

mCtl.ScrollTop = idx

End If

Else

If lParam.hWnd > 0 Then idx = -1 Else idx = 1

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAKE scrollOnly False IF YOU WANT TO CHANGE THE SELECTION RATHER THAN JUST SCROLL \*\*\*\*\*\*

If scrollOnly Then

idx = idx + mCtl.TopIndex

If idx >= 0 Then mCtl.TopIndex = idx

Else

idx = idx + mCtl.ListIndex

If idx >= 0 Then mCtl.ListIndex = idx

End If

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End If

Exit Function

End If

Else

UnhookListBoxScroll

End If

#End If

End If

MouseProc = CallNextHookEx( \_

mLngMouseHook, nCode, wParam, ByVal lParam)

Exit Function

errH:

UnhookListBoxScroll

End Function

#Else

Private Function MouseProc( \_

ByVal nCode As Long, ByVal wParam As Long, \_

ByRef lParam As MOUSEHOOKSTRUCT) As Long

Dim idx As Long

On Error GoTo errH

If (nCode = HC\_ACTION) Then

If WindowFromPoint(lParam.Pt.X, lParam.Pt.Y) = mListBoxHwnd Then

If wParam = WM\_MOUSEWHEEL Then

MouseProc = True

' If lParam.hWnd > 0 Then

' postMessage mListBoxHwnd, WM\_KEYDOWN, VK\_UP, 0

' Else

' postMessage mListBoxHwnd, WM\_KEYDOWN, VK\_DOWN, 0

' End If

' postMessage mListBoxHwnd, WM\_KEYUP, VK\_UP, 0

If TypeOf mCtl Is Frame Then

If lParam.hWnd > 0 Then idx = -10 Else idx = 10

idx = idx + mCtl.ScrollTop

If idx >= 0 And idx < ((mCtl.ScrollHeight - mCtl.Height) + 17.25) Then

mCtl.ScrollTop = idx

End If

ElseIf TypeOf mCtl Is UserForm Then

If lParam.hWnd > 0 Then idx = -10 Else idx = 10

idx = idx + mCtl.ScrollTop

If idx >= 0 And idx < ((mCtl.ScrollHeight - mCtl.Height) + 17.25) Then

mCtl.ScrollTop = idx

End If

Else

If lParam.hWnd > 0 Then idx = -1 Else idx = 1

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAKE scrollOnly False IF YOU WANT TO CHANGE THE SELECTION RATHER THAN JUST SCROLL \*\*\*\*\*\*

If scrollOnly Then

idx = idx + mCtl.TopIndex

If idx >= 0 Then mCtl.TopIndex = idx

Else

idx = idx + mCtl.ListIndex

If idx >= 0 Then mCtl.ListIndex = idx

End If

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

End If

Exit Function

End If

Else

UnhookListBoxScroll

End If

End If

MouseProc = CallNextHookEx( \_

mLngMouseHook, nCode, wParam, ByVal lParam)

Exit Function

errH:

UnhookListBoxScroll

End Function

#End If

### IN USERFORM

Private Sub ListBox1\_MouseMove(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As Single, ByVal Y As Single)

HookListBoxScroll Me, Me.ListBox1

End Sub