```
VERSION 1.0 CLASS
BEGIN
 MultiUse = -1 'True
END
Attribute VB Name = "clsSearchableDropdown"
Attribute VB GlobalNameSpace = False
Attribute VB Creatable = False
Attribute VB PredeclaredId = False
Attribute VB Exposed = False
Option Explicit
'clsSearchableDropdown - 2023-03-01
'Author: Paul Kelly - https://ExcelMacroMastery.com/
'Version: 2.1 Updated 30-01-2023
'YouTube video: https://youtu.be/gkLB-xu JTU
'Description: Searchable Dropdown list
             The code in this class allows the user to
             create a searchable dropdown list of items.
'HOW TO USE - See READ ME File - 2023-03-01
'LICENSE ETC.
   You can use this code free in any of your software
applications and distribute as you wish.
' Please do not alter or remove the authors name or website.
Private Const m conMaxRows As Long = 10
'Configurable Settings
Private m compareMethod As VbCompareMethod 'Determines case
sensitivity in the search
Private m listOfItems As Variant
                                           'This is the array
of items that is filtered
Private m maxRows As Long
                                           'The number of rows
to be displayed in the listbox.
Private m startText As String
                                            'Start text in the
textbox
Private m showAllMatches As Boolean
                                           'True: shows all
matches. False show the number of rows specified by m MaxRows
'This is used to prevent events running when changes are being
made
Private m UpdateControl As Boolean
```

Private m textboxStartingState As Boolean 'Used to decide when

to remove the starting text

Private m textboxStartingState As Boolean 'Used to decide when to remove the starting text Private WithEvents myListBox As MSForms.listbox Attribute myListBox.VB VarHelpID = -1 Private WithEvents myTextBox As MSForms.TextBox Attribute myTextBox.VB VarHelpID = -1---- PROPERTIES Public Property Let CompareMethod(ByVal value As VbCompareMethod) m compareMethod = value Call FilterListBox End Property Public Property Get SelectedItem() As String SelectedItem = IIf (m textboxStartingState = True, "", myTextBox.value) End Property Public Property Let List(ByVal value As Variant) m listOfItems = value End Property 'The number of rows that will be visible in the listbox Public Property Let MaxRows (ByVal value As Long) m maxRows = valueCall FilterListBox End Property 'Set the text to be displayed in the textbox before the search Public Property Let StartText(ByVal text As String) m startText = textSetTextboxValue (m startText)

'If true include all matches in the listbox. If false only show

End Property

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End Property
'If true include all matches in the listbox. If false only show
the rows
'specified by m MaxRows
Public Property Let ShowAllMatches (ByVal state As Boolean)
   m showAllMatches = state
   Call FilterListBox
End Property
Public Property Set SearchListBox (ByVal oListBox As MSForms.
listbox)
   Set myListBox = oListBox
   Call InitializeListBox
End Property
Public Property Set SearchTextBox(ByVal oTextBox As MSForms.
TextBox)
   Set myTextBox = oTextBox
   Call InitializeTextBox
End Property
·-----
-- CLASS EVENTS
'Description: Set the defaults
Private Sub Class Initialize()
   m compareMethod = vbTextCompare
   m maxRows = m conMaxRows
   m startText = "Saisir le nom de la compagnie que vous
recherchez"
   m_showAllMatches = False 'False - 2023-03-01 - RMV
End Sub
LISTBOX EVENTS
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Private Sub myListBox DblClick(ByVal Cancel As MSForms.

ReturnBoolean)

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Private Sub myListBox DblClick(ByVal Cancel As MSForms.
ReturnBoolean)
    'If the user doubleclicks or presses enter, place the
selected value in the
    'textbox
    If m UpdateControl = False Then
        SetTextboxValue myListBox.value
        Call ShowListbox(False)
    End If
End Sub
Private Sub myListBox KeyDown (ByVal KeyCode As MSForms.
ReturnInteger, ByVal Shift As Integer)
    'When the key is down in the listbox turn on
    'm UpdateControl to prevent the click event occurring
    If KeyCode = vbKeyDown Then
        m UpdateControl = True
    ElseIf KeyCode = vbKeyUp Then
        m UpdateControl = True
        CheckListBoxFirstItem
    ElseIf KeyCode = vbKeyReturn Then
        'swallow the enter keycode as it passes on to the ok
button
        KeyCode = 0
        SetTextboxValue myListBox.value
        Call ShowListbox(False)
    End If
End Sub
Private Sub myListBox KeyUp (ByVal KeyCode As MSForms.
ReturnInteger, ByVal Shift As Integer)
    'Turn update control off - turned on in KeyDown
    If KeyCode = vbKeyDown Then
        m UpdateControl = False
    ElseIf KeyCode = vbKeyUp Then
        m UpdateControl = False
    End If
End Sub
Private Sub List MoveDown()
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m UpdateControl = True

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Private Sub List MoveDown()
    m UpdateControl = True
    If m textboxStartingState = False Then
        With myListBox
            .SetFocus
            If .ListIndex < .ListCount - 1 Then</pre>
                .ListIndex = .ListIndex + 1
                .Selected(.ListIndex) = True
            End If
        End With
    End If
    m UpdateControl = False
End Sub
-- LISTBOX SUBS
Private Sub UpdateListbox(items As Variant)
    With myListBox
        'Reload listbox
        .Clear
        .ForeColor = rgbBlack
        'Set the listbox size
        If IsEmpty(items) Then
            'No items found
            .List = Array("Je n'ai rien trouvé!")
            .ForeColor = rgbRed
        Else
            'items found
            .List = items
            .ListIndex = 0
        End If
        'Resize the listbox
        Call SetListboxPosition
        'If show all matches then have a scrollbar
        If m showAllMatches = True Then
            Call MakeAllMatchesAvailable
        Else
            .Height = ResizeListbox(myListBox, 11)
        End If
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Else
            .Height = ResizeListbox(myListBox, 11)
        End If
    End With
End Sub
Private Sub MakeAllMatchesAvailable()
    With myListBox
        'To get the scrollbar working correctly it is necessary
to
        'turn IntegralHeight off and on
        .IntegralHeight = False
        .Height = ResizeListbox(myListBox, myTextBox.Font.Size)
        .IntegralHeight = True
        'List index will not highlight to first unless the
second one is
        'highlighted first. It might be to do with the resizing
from the
        'Integral height
        If .ListCount > 1 Then .ListIndex = 1
        .ListIndex = 0
    End With
End Sub
Private Sub InitializeListBox()
    'Remove any automatic resizing of the listbox
    myListBox.IntegralHeight = False
End Sub
Public Sub CheckListBoxFirstItem()
    If myListBox.ListIndex = 0 Then
        m UpdateControl = False
        SelectTextBox
    End If
End Sub
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Private Function ShowListbox(Optional ByVal show As Boolean =

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End Sub
Private Function ShowListbox(Optional ByVal show As Boolean =
True)
    If rmv state = rmv modeInitial Or rmv state =
rmv modeAffichage Then
        show = False
    End If
   myListBox.Visible = show
End Function
Private Function SetListboxPosition()
    With myListBox
        .Left = myTextBox.Left
        .Top = myTextBox.Top + (myTextBox.Height)
        .Width = myTextBox.Width
         Call ShowListbox(True)
    End With
End Function
Private Function ResizeListbox (myListBox As MSForms.listbox,
fontSize As Double) As Double
    'Set listbox font to the same size as the textbox
   myListBox.Font.Size = fontSize
    Dim ItemCount As Long
    ItemCount = IIf(myListBox.ListCount > m maxRows, m maxRows,
myListBox.ListCount)
    Dim itemSize As Double
    'the font size is itself plus a quarter for the space
between rows
    itemSize = myListBox.Font.Size + (myListBox.Font.Size / 4)
    ResizeListbox = (itemSize * ItemCount) + 5
End Function
 TEXTBOX EVENTS
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Private Sub myTextBox Change()

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TEXTBOX EVENTS
Private Sub myTextBox Change()
    If m UpdateControl = False Then
        If Trim(myTextBox.value) = "" Then
            Call InitializeTextBox
        Else
            If m textboxStartingState = True Then
                m textboxStartingState = False
                'Call RemoveStartingText
            End If
            Call FilterListBox
        End If
    End If
End Sub
Private Sub myTextBox KeyDown (ByVal KeyCode As MSForms.
ReturnInteger, ByVal Shift As Integer)
    'If the user presses keyup/down or enter while in the textbox
    If KeyCode = vbKeyDown Then
        List MoveDown
    ElseIf KeyCode = vbKeyReturn Then
        'Swallow the enter keycode as it passes on to the ok
button
        KeyCode = 0
        If IsNull(myListBox.value) = False And
m textboxStartingState = False Then
            SetTextboxValue myListBox.value
        End If
        Call ShowListbox(False)
    ElseIf KeyCode = vbKeyEscape Then
        'swallow the esc keycode
        Call InitializeTextBox
        KeyCode = 0
    End If
End Sub
-- TEXTBOX SUBS
Private Sub SetTextboxValue (ByVal text As String)
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If m UpdateControl = False Then

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Private Sub SetTextboxValue (ByVal text As String)
    If m UpdateControl = False Then
        With myListBox
            m UpdateControl = True
            'Set the listbox selected value to the textbox
            'and hide the listbox
            myTextBox.value = text
            Call SelectTextBox
            m UpdateControl = False
        End With
    End If
End Sub
Private Sub InitializeTextBox()
    'Set the starting text and position
    m textboxStartingState = True
    If m UpdateControl = True Then
        SetTextboxValue m startText
    End If
    myTextBox.SelStart = 0
    'myTextBox.ForeColor = rgbBlue
    Call ShowListbox(False)
End Sub
'Description: Replace the default starting text with the letter
the user has typed.
              This will work if the user types at any position
in the starting text.
Private Sub RemoveStartingText()
    m UpdateControl = True
    With myTextBox
        .text = Mid(.value, .SelStart, 1)
        '.ForeColor = rgbBlack
    End With
```

m UpdateControl = False

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'.ForeColor = rgbBlack
    End With
    m UpdateControl = False
End Sub
Private Function SelectTextBox()
    With myTextBox
        'SelStart = 0
        .SetFocus
    End With
End Function
-- GENERAL SUBS
'Filters the Listbox
Public Sub FilterListBox()
    'In case a setting like MaxRows is used before the range is
set
    If IsEmpty(m listOfItems) Then Exit Sub
    m UpdateControl = True
    Dim items As Variant
    items = FilterData
    Call UpdateListbox(items)
   m UpdateControl = False
End Sub
Private Function FilterData() As Variant
    Dim textPattern As String
    textPattern = myTextBox.value
    If textPattern = "" Then
        Exit Function
    End If
    'Create an array to store the filtered items
```

Dim filteredItems() As String

ReDim filteredItems(0 To m maxRows - 1)

```
'Create an array to store the filtered items
    Dim filteredItems() As String
    ReDim filteredItems(0 To m maxRows - 1)
    'Read through all the items in the full list
    Dim i As Long
    Dim count As Long: count = 0
    For i = LBound(m listOfItems) To UBound(m listOfItems)
        'Using Instr instead of Like so we can set the case
sensitivity
        If InStr(1, m listOfItems(i, 1), textPattern,
m compareMethod) > 0 Then
            filteredItems(count) = m listOfItems(i, 1)
            count = count + 1
            If m showAllMatches = False Then
                'Only show the max number of rows
                If count >= m maxRows Then Exit For
            End If
        End If
    Next
    'Use variant so we can check later if the array is empty
    Dim finalItems As Variant
    If count > 0 Then
        ReDim finalItems(0 To count - 1)
        For i = 0 To count -1
            finalItems(i) = filteredItems(i)
        Next i
    End If
    FilterData = finalItems
End Function
```