MoveItemsBetweenListboxes

(Q) Can I move easily items from one listbox to another ?

tags:
HowTo

(R) Let's implement the classical method of moving either the selected items or all the items from one listbox to another and reciprocally.

A first listbox is loaded from the database. The second one is empty.
The goal is to load the second listbox with a selection of items from the first one, thanks to 4 buttons:

- > and < move all selected items from one listbox to the other one and remove them from the original one.
- >> and << empty the original box and move all its items to the other one.

Solution

It consists in putting on a form:

- 2 **listboxes** called *LeftList* and *RightList*
- 4 buttons called *MoveOneRight* (>), *MoveAllRight* (>>), *MoveOneLeft* (<), *MoveAllLeft* (<<)

The code associated with the events is mainly a matter of arrays redimensioning, trimming and housekeeping. Both listboxes must be reinitialized from the event macro after each button activation to remain synchronized.

Let's assume next table:

- Products table

Fields	Field Type	Primary
CategoryID	BigInt	
ProductName	Text	
QuantityPerUnit	Text	
ReorderLevel	Integer	
SupplierID	BigInt	
UnitPrice	Number	
UnitsInStock	Integer	
UnitsOnOrder	Integer	
Discontinued	Boolean	
ProductID	BigInt	Y
Picture	Image	

The *LeftList* box is loaded initially with the *ProductName* field of the *Products* table.

1. Associate next code with the *When loading* form event: after initial loading the *LeftList* control will be dissociated from its bound field. Additionally 3 constants are defined at module level.

```
Const cstForm          = "Products_FastSelect"
Const cstLeftList      = "LeftList"
Const cstRightList     = "RightList"
```

```
Sub InitFirstList(poEvent As Object)
'Activated when form opened
Dim ocList As Object, sSource As String

        Set ocList = Forms(cstForm).Controls(cstLeftList)
        sSource = Join(ocList.ItemData, ";")
        ocList.RowSourceType = com.sun.star.form.ListSourceType.VALUELIST        '         Cancel
        ocList.RowSource = sSource
End Sub
```

2. Associate the *Execute action* event of each of the 4 buttons with next macro:

```
Sub MoveItems(poEvent As Object)
Dim oEvent As Object, ocLeftList As Object, ocRightList As Object
Dim i As Integer, vLeft() As Variant, vRight() As Variant, vSelected() As Variant
Dim iMaxDim As Integer, iLeftSize As Integer, iRightSize As Integer, sSource As String
        Set oEvent = Events(poEvent)
        Set ocLeftList = Forms(cstForm).Controls(cstLeftList)
        Set ocRightList = Forms(cstForm).Controls(cstRightList)
        '        Initial load of arrays
        vLeft = ocLeftList.ItemData
        vRight = ocRightList.ItemData
        iLeftSize = UBound(vLeft)
        iRightSize = UBound(vRight)
        iMaxDim = iLeftSize + 1 + iRightSize + 1
        ReDim Preserve vLeft(iMaxDim)
        ReDim Preserve vRight(iMaxDim)

        Select Case oEvent.Source.Name
                Case "MoveOneRight"              '         >
                        vSelected = ocLeftList.Selected
                        For i = 0 To iLeftSize
                                If vSelected(i) Then
                                        iRightSize = iRightSize + 1
                                        vRight(iRightSize) = vLeft(i)
                                        vLeft(i) = ""
                                End If
                        Next i
                Case "MoveAllRight"             '        >>
                        For i = 0 To iLeftSize
                                iRightSize = iRightSize + 1
                                vRight(iRightSize) = vLeft(i)
                                vLeft(i) = ""
                        Next i
                Case "MoveOneLeft"              '        <
                        vSelected = ocRightList.Selected
                        For i = 0 To iRightSize
                                If vSelected(i) Then
                                        iLeftSize = iLeftSize + 1
                                        vLeft(iLeftSize) = vRight(i)
                                        vRight(i) = ""
                                End If
                        Next i
                Case "MoveAllLeft"              '        <<
                        For i = 0 To iRightSize
                                iLeftSize = iLeftSize + 1
                                vLeft(iLeftSize) = vRight(i)
                                vRight(i) = ""
                        Next i
```

```
            End Select

            'Reload listboxes
            sSource = ""
            For i = 0 To iLeftSize
                    If vLeft(i) <> "" Then sSource = sSource & vLeft(i) & ";"
            Next i
            If Len(sSource) = 0 Then ocLeftList.RowSource = "" Else ocLeftList.RowSource = Left(sS
            sSource = ""
            For i = 0 To iRightSize
                    If vRight(i) <> "" Then sSource = sSource & vRight(i) & ";"
            Next i
            If Len(sSource) = 0 Then ocRightList.RowSource = "" Else ocRightList.RowSource = Left(

            'Deselect listboxes
            For i = 0 To ocLeftList.ListCount - 1
                    setSelected(ocLeftList, False, i)
            Next i
            For i = 0 To ocRightList.ListCount - 1
                    setSelected(ocRightList, False, i)
            Next i
    End Sub
```

See also

ListBox
ListCount
RowSource
RowSourceType
Selected
Event

Refer to ...

Basic module	Form	Form event	Control	Control event	Comments
FastSelect	Products_FastSelect	When loading	MoveOneRight MoveAllRight MoveOneLeft MoveAllLeft	Execute action	

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