# mmodImageUtils (Code)

Option Compare Database Option Explicit

'============================================================ ' Adds one image record to tblCoinImages for the current coin. ' ' REQUIRED table assumptions (matches your schema): ' - tblCoinImages.ImageID is AutoNumber PK (do not set it) ' - tblCoinImages.CoinID is FK to parent coin ' ' Parameters: ' parentForm - the main form (hosting the subform) ' parentIdControl - control on parent containing CoinID (e.g. "CoinID") ' targetSubformCtl - name of the SUBFORM CONTROL on the parent (e.g. "sfrmCoinImages") ' fkFieldName - FK field name in tblCoinImages (for you: "CoinID") ' imagePathField - field name for the path (e.g. "ImagePath") ' pkFieldName - PK field name (for you: "ImageID") used to return new ID ' typeControlName - optional: subform control holding image type (e.g. "cboImageTypeID") ' typeFieldName - optional: table field storing type (e.g. "ImageTypeID") ' ' Returns: ' The new ImageID if added successfully, otherwise Null. '============================================================ Public Function AddCoinImage( _ ByVal parentForm As Form, _ ByVal parentIdControl As String, _ ByVal targetSubformCtl As String, _ ByVal fkFieldName As String, _ ByVal imagePathField As String, _ ByVal pkFieldName As String, _ Optional ByVal typeControlName As String = vbNullString, _ Optional ByVal typeFieldName As String = vbNullString _ ) As Variant

```SQL
1   On Error GoTo ErrHandler
2
3   Dim CoinID As Variant
4   CoinID = parentForm.Controls(parentIdControl).Value
5
6   ' Parent must exist (CoinID must be present)
7   If IsNull(CoinID) Or CoinID = 0 Then
8       MsgBox "Save the coin record first (CoinID must exist) before adding images.", vbExclamation
9       AddCoinImage = Null
10      Exit Function
11  End If
12
13  ' Pick a file
14  Dim filePath As String
15  filePath = PickOneImageFile()
16  If Len(filePath) = 0 Then
17      AddCoinImage = Null      ' user cancelled
18      Exit Function
19  End If
20
21  ' Subform reference (FORM object via subform CONTROL)
22  Dim sfm As Form
23  Set sfm = parentForm.Controls(targetSubformCtl).Form
24
25  ' Insert one record atomically
26  Dim rs As DAO.Recordset
27  Set rs = sfm.RecordsetClone
28
29  rs.AddNew
30  rs.Fields(fkFieldName).Value = CoinID
31  rs.Fields(imagePathField).Value = filePath
32
33  ' Optional image type
34  If Len(typeControlName) > 0 And Len(typeFieldName) > 0 Then
35      Dim imgTypeVal As Variant
36      imgTypeVal = sfm.Controls(typeControlName).Value
37      If Not IsNull(imgTypeVal) Then
38          rs.Fields(typeFieldName).Value = imgTypeVal
39      End If
40  End If
41
42  rs.Update
43
44  ' Grab the new PK (ImageID) that Access generated
```

```
45  rs.Bookmark = rs.LastModified
46  AddCoinImage = rs.Fields(pkFieldName).Value
47
48  rs.Close
49  Set rs = Nothing
50
51  ' Refresh subform display
52  sfm.Requery
53
54  Exit Function
55
```

ErrHandler: MsgBox "AddCoinImage failed: " & Err.Number & " - " & Err.Description, vbExclamation AddCoinImage = Null End Function

'============================================================ ' Helper: File picker for one image file. ' Returns full path, or "" if cancelled. '============================================================ Public Function PickOneImageFile() As String On Error GoTo ErrHandler

```
1   Dim fd As Office.FileDialog
2   Set fd = Application.FileDialog(msoFileDialogFilePicker)
3
4   With fd
5       .Title = "Select an image file"
6       .AllowMultiSelect = False
7       .Filters.Clear
8       .Filters.Add "Image Files", "*.jpg;*.jpeg;*.png;*.bmp;*.gif;*.tif;*.tiff"
9       .Filters.Add "All Files", "*.*"
10
11      If .Show <> -1 Then
12          PickOneImageFile = vbNullString
13      Else
14          PickOneImageFile = .SelectedItems(1)
15      End If
16  End With
17
18  Exit Function
19
```

ErrHandler: MsgBox "File picker failed: " & Err.Number & " - " & Err.Description, vbExclamation PickOneImageFile = vbNullString End Function

Public Function ControlExists(frm As Form, ctlName As String) As Boolean On Error GoTo Nope Dim c As Control Set c = frm.Controls(ctlName) ControlExists = True Exit Function Nope: ControlExists = False End Function