

modCoinImages (Code)

Option Compare Database Option Explicit

'Root folder for images, RELATIVE to the database folder (CurrentProject.Path) Public Const IMAGE_ROOT_REL As String = "Folder\CoinImages"

'Return full path to the folder containing the .accdb, with trailing backslash. Public Function DbRootPath() As String DbRootPath = CurrentProject.Path & "" End Function

'Ensure a folder exists. Creates it if missing.

Public Sub EnsureFolderExists(ByVal fullPath As String) Dim fso As Object Dim p As String Dim parts() As String Dim i As Long Dim build As String

```
1 Set fso = CreateObject("Scripting.FileSystemObject")
2
3 'Normalize path
4 p = fullPath
5 If Right$(p, 1) = "\" Then p = Left$(p, Len(p) - 1)
6
7 'If it already exists, done
8 If fso.FolderExists(p) Then Exit Sub
9
10 'If parent exists, create this folder and done
11 If fso.FolderExists(fso.GetParentFolderName(p)) Then
12     fso.CreateFolder p
13     Exit Sub
14 End If
15
16 'Otherwise, create parents step-by-step
17 parts = Split(p, "\")
18 build = parts(0) ' e.g. "C:" or a top folder name
19
20 'Handle drive root like "C:"
21 If Right$(build, 1) = ":" Then build = build & "\"
22
23 For i = 1 To UBound(parts)
24     If build = "" Or Right$(build, 1) = "\" Then
25         build = build & parts(i)
26     Else
27         build = build & "\" & parts(i)
28     End If
29
30     If Not fso.FolderExists(build) Then
31         fso.CreateFolder build
32     End If
33 Next i
34
```

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End Sub

'Return the full path to IMAGE_ROOT_REL, creating it if needed. Public Function EnsureImageRootFull() As String Dim p As String p = DbRootPath() & IMAGE_ROOT_REL EnsureFolderExists p EnsureImageRootFull = p End Function

'Format CoinID as 6 digits: 42 -> "000042" Public Function CoinFolderName(ByVal CoinID As Long) As String CoinFolderName = Format\$(CoinID, "000000") End Function

'Ensure the coin folder exists and return its full path with trailing backslash. Public Function EnsureCoinFolderFull(ByVal CoinID As Long) As String Dim rootFull As String Dim coinFull As String

```

1 rootFull = EnsureImageRootFull()
2 coinFull = rootFull & CoinFolderName(CoinID) & "\"
3 EnsureFolderExists coinFull
4
5 EnsureCoinFolderFull = coinFull
6

```

End Function

'Get file extension without dot, lower-case (e.g. "jpg") Public Function GetFileExt(ByVal filePath As String) As String Dim fso As Object Set fso = CreateObject("Scripting.FileSystemObject") GetFileExt = LCase\$(fso.GetExtensionName(filePath)) End Function

'Get filename only (e.g. "IMG_1234.jpg") Public Function GetFileNameOnly(ByVal filePath As String) As String Dim fso As Object Set fso = CreateObject("Scripting.FileSystemObject") GetFileNameOnly = fso.GetFileName(filePath) End Function

'Get file size in KB (rounded) Public Function GetFileSizeKB(ByVal filePath As String) As Long Dim fso As Object, f As Object Set fso = CreateObject("Scripting.FileSystemObject") Set f = fso.GetFile(filePath) GetFileSizeKB = CLng((f.Size + 512) \ 1024) End Function

'Make a safe base filename from the image type name: "Slab Front" -> "slab_front" Public Function SafeBaseName(ByVal s As String) As String s = LCase\$(Trim\$(s)) s = Replace(s, " ", "") s = Replace(s, "/", "") s = Replace(s, "\", "") s = Replace(s, ":", "") s = Replace(s, "*", "") s = Replace(s, "?", "") s = Replace(s, "''", "") s = Replace(s, "<", "") s = Replace(s, ">", "") s = Replace(s, "|", "") SafeBaseName = s End Function

'Copy a selected file into the coin folder. 'Returns RELATIVE path to store in tblCoinImages.ImagePath, 'e.g.

"Folder\CoinImages\000042\obverse.jpg" Public Function CopyImageToCoinFolderRel(_ ByVal CoinID As Long, _ ByVal sourceFile As String, _ ByVal imageTypeName As String _) As String

```

1 Dim coinFull As String
2 Dim ext As String
3 Dim base As String
4 Dim destFull As String
5 Dim destName As String
6 Dim i As Long
7
8 coinFull = EnsureCoinFolderFull(CoinID)
9 ext = GetFileExt(sourceFile)
10 base = SafeBaseName(imageTypeName)
11
12 If base = "" Then base = "image"
13
14 destName = base & "." & ext
15 destFull = coinFull & destName
16
17 'Ensure unique destination name if file already exists.
18 i = 1
19 Do While Len(Dir$(destFull)) > 0
20     destName = base & "_" & Format$(i, "00") & "." & ext
21     destFull = coinFull & destName
22     i = i + 1
23 Loop
24
25 FileCopy sourceFile, destFull
26
27 CopyImageToCoinFolderRel = IMAGE_ROOT_REL & CoinFolderName(CoinID) & "\" & destName
28

```

End Function

'Copy a selected file into the coin folder. 'Returns FULL path to store in tblCoinImages.ImagePath, 'e.g.

"C:\CoinCollection\Folder\CoinImages\000042\obverse.jpg" Public Function CopyImageToCoinFolderFull(_ ByVal CoinID As Long, _ ByVal sourceFile As String, _ ByVal imageTypeName As String _) As String

SQL ▾

```
1 Dim coinFull As String
2 Dim ext As String
3 Dim base As String
4 Dim destFull As String
5 Dim destName As String
6 Dim i As Long
7
8 coinFull = EnsureCoinFolderFull(CoinID) ' <-- this already returns FULL path
9 ext = GetFileExt(sourceFile)
10 base = SafeBaseName(imageTypeName)
11 If base = "" Then base = "image"
12
13 destName = base & "." & ext
14 destFull = coinFull & destName
15
16 'Ensure unique destination name if file already exists.
17 i = 1
18 Do While Len(Dir$(destFull)) > 0
19     destName = base & "_" & Format$(i, "00") & "." & ext
20     destFull = coinFull & destName
21     i = i + 1
22 Loop
23
24 FileCopy sourceFile, destFull
25
26 CopyImageToCoinFolderFull = destFull
27
```

End Function

'Insert a row into tblCoinImages and enforce "one primary per coin" if needed. Public Sub AddCoinImageFromFile(ByVal CoinID As Long, _ ByVal ImageTypeID As Long, _ ByVal imageTypeName As String, _ ByVal selectedFile As String)

SQL ▾

```
1 On Error GoTo ErrHandler
2
3 Dim db As DAO.Database
4 Dim rs As DAO.Recordset
5 Dim crit As String
6 Dim nextOrder As Long
7 Dim fileNameOnly As String
8 Dim isPrimaryFlag As Boolean
9
10 If CoinID <= 0 Then
11     Err.Raise vbObjectError + 1000, "AddCoinImageFromFile", "CoinID is required."
12 End If
13
14 Set db = CurrentDb
15
16 'Compute next DisplayOrder for this coin (assigned at insert time)
17 crit = "CoinID=" & CoinID
18 nextOrder = Nz(DMax("DisplayOrder", "tblCoinImages", crit), -1) + 1
19
20 'Use the real filename the user selected
21 fileNameOnly = Dir(selectedFile)
22
23 'Optional: first image becomes primary
24 isPrimaryFlag = (Nz(DCount("*", "tblCoinImages", crit), 0) = 0)
25
26 'Insert record
27 Set rs = db.OpenRecordset("tblCoinImages", dbOpenDynaset, dbAppendOnly)
28 rs.AddNew
```

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29     rs!CoinID = CoinID
30     rs!ImageTypeID = ImageTypeID
31     rs!ImagePath = selectedFile      'or store relative folder path if you prefer
32     rs!FileName = fileNameOnly
33     rs!DisplayOrder = nextOrder
34     rs!IsPrimary = isPrimaryFlag
35     rs!Active = True
36     rs!Verified = False
37     rs!ImportedDate = Now()
38 rs.Update
39 rs.Close
40
41 Exit Sub
42

```

ErrorHandler: On Error Resume Next If Not rs Is Nothing Then If rs.EditMode <> 0 Then rs.CancelUpdate rs.Close End If MsgBox "AddCoinImageFromFile failed." & vbCrLf & _ "Error " & Err.Number & ": " & Err.Description, vbCritical End Sub

Public Function AddCoinImage(_ ByVal parentForm As Form, _ ByVal parentIdControl As String, _ ByVal subformControlName As String, _ ByVal fkFieldName As String, _ ByVal imagePathField As String, _ ByVal pkFieldName As String, _ Optional ByVal imageTypeControlName As String = vbNullString, _ Optional ByVal imageTypeFieldName As String = vbNullString _) As Variant

SQL ▾

```

1  On Error GoTo ErrorHandler
2
3  Dim CoinID As Variant
4  CoinID = parentForm.Controls(parentIdControl).Value
5
6  If IsNull(CoinID) Or CoinID = 0 Then
7      MsgBox "Save the coin record first (CoinID must exist) before adding images.", vbExclamation
8      AddCoinImage = Null
9      Exit Function
10 End If
11
12 Dim filePath As String
13 filePath = PickOneImageFile() ' <-- keep this in modImageUtils
14 If Len(filePath) = 0 Then
15     AddCoinImage = Null
16     Exit Function
17 End If
18
19 ' Insert directly into tblCoinImages (works regardless of Allow Additions)
20 Dim rs As DAO.Recordset
21 Set rs = CurrentDb.OpenRecordset("tblCoinImages", dbOpenDynaset)
22
23 rs.AddNew
24 rs.Fields(fkFieldName).Value = CoinID
25 rs.Fields(imagePathField).Value = filePath
26
27 ' Optional: image type (read from parent form unless you KNOW it's on the subform)
28 If Len(imageTypeControlName) > 0 And Len(imageTypeFieldName) > 0 Then
29     Dim t As Variant
30     t = parentForm.Controls(imageTypeControlName).Value
31     If Not IsNull(t) Then
32         rs.Fields(imageTypeFieldName).Value = t
33     End If
34 End If
35
36 rs.Update
37 rs.Bookmark = rs.LastModified
38 AddCoinImage = rs.Fields(pkFieldName).Value
39 rs.Close
40
41 ' Refresh the subform display
42 parentForm.Controls(subformControlName).Requery
43
44 Exit Function

```

45

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