

VBA SOURCE CODE BOOK

GENERATE THUMBNAILS

**GENERATE THUMBNAILS
JOB MANAGER**

Enter Job #

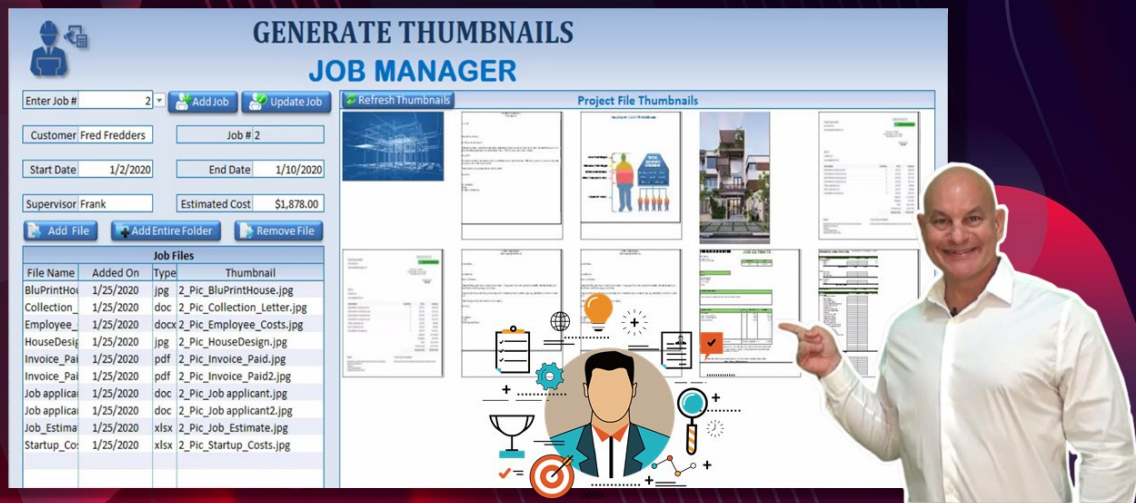
Customer Fred Fredders Job # 2

Start Date 1/2/2020 End Date 1/10/2020

Supervisor Frank Estimated Cost: \$1,878.00

File Name	Added On	Type	Thumbnail
BluPrintHoi	1/25/2020	jpg	2_Pic_BluPrintHouse.jpg
Collection	1/25/2020	doc	2_Pic_Collection_Letter.jpg
Employee_	1/25/2020	docx	2_Pic_Employee_Costs.jpg
HouseDesig	1/25/2020	jpg	2_Pic_HouseDesign.jpg
Invoice_Pai	1/25/2020	pdf	2_Pic_Invoice_Paid.jpg
Invoice_Pai	1/25/2020	pdf	2_Pic_Invoice_Paid2.jpg
Job applica	1/25/2020	doc	2_Pic_Job applicant.jpg
Job applica	1/25/2020	doc	2_Pic_Job applicant2.jpg
Job_Estima	1/25/2020	xlsx	2_Pic_Job_Estimate.jpg
Startup_Co	1/25/2020	xlsx	2_Pic_Startup_Costs.jpg

Project File Thumbnails



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by: Randy Austin

ABOUT THE AUTHOR

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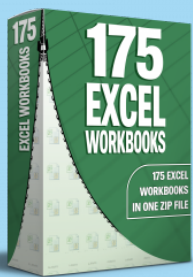
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```
1 Option Explicit
2
3 Private Sub Worksheet_Change(ByVal Target As Range)
4     If Not Intersect(Target, Range("E3" )) Is Nothing And Range("E3" ).Value <> Empty Then
5         Job_Load
6     End Sub
7
8 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
9
10 End Sub
```

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```
1 Option Explicit
```

```
2  
3 Sub AddAllFiles()
```

```
4 Dim FileFolder As FileDialog
```

```
5 Dim FolderPath As String
```

```
6 Dim JobNumb As Long, FileRow As Long
```

```
7 Dim ObjFile As Object, objFSO As Object, objFolder As Object
```

```
8 Set FileFolder = Application.FileDialog(msoFileDialogFolderPicker)
```

```
9 With FileFolder
```

```
10 .Title = "Select A Folder To Add"
```

```
11 If .Show <> -1 Then GoTo NoSelection
```

```
12 FolderPath = .SelectedItems(1) 'Put File Name in B84
```

```
13 End With
```

```
14  
15 Set objFSO = VBA.CreateObject("Scripting.FileSystemObject" )
```

```
16 JobNumb = Sheet1.Range("H5" ).Value ' Job #
```

```
17 With Sheet4
```

```
18 FileRow = .Range("A9999" ).End(xlUp).Row + 1 'First Available Row
```

```
19 Set objFolder = objFSO.GetFolder(FolderPath)
```

```
20 For Each ObjFile In objFolder.Files
```

```
21 .Range("A" & FileRow).Value = JobNumb
```

```
22 .Range("B" & FileRow).Value = ObjFile.Name
```

```
23 .Range("C" & FileRow).Value = Now
```

```
24 .Range("D" & FileRow).Value = objFSO.getextensionname(ObjFile.Path)
```

```
25 .Range("E" & FileRow).Value = ObjFile.Path
```

```
26 .Range("G" & FileRow).Value = "=Row()"
```

```
27 FileRow = FileRow + 1
```

```
28 Next ObjFile
```

```
29 End With
```

```
30 GenerateThumbnail
```

```
31 NoSelection:
```

```
32 End Sub
```

```
33  
34  
35 Sub AddSingleFile()
```

```
36 Dim ItemFile As FileDialog
```

```
37 Dim FilePath As String
```

```
38 Dim FileRow As Long
```

```
39 Dim ObjFile As Object, objFSO As Object
```

```
40 Set objFSO = VBA.CreateObject("Scripting.FileSystemObject" )
```

```
41 With Sheet4
```

```
42 Set ItemFile = Application.FileDialog(msoFileDialogFilePicker)
```

```
43 With ItemFile
```

```
44 .Title = "Select A File To Add"
```

```
45 If .Show <> -1 Then GoTo NoSelection
```

```
46 FilePath = .SelectedItems(1)
```

```
47 End With
```

```
48 FileRow = .Range("A9999" ).End(xlUp).Row + 1 'First Available Row
```

```
49 .Range("A" & FileRow).Value = Sheet1.Range("E3" )
```

```
50 .Range("B" & FileRow).Value = Dir(FilePath) 'File Name
```

```
51 .Range("C" & FileRow).Value = Now 'Current Date & Time
```

```
52 .Range("D" & FileRow).Value = objFSO.getextensionname(FilePath) 'Extension
```

```
53 .Range("E" & FileRow).Value = FilePath 'Full file path
```

```
54 .Range("G" & FileRow).Value = "=Row()"
```

```
55  
56 End With
```

```
57 Job_LoadFiles
```

```
58 NoSelection:
```

```
59 End Sub
```

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```

1  Option Explicit
2
3  Sub GenerateThumbnail()
4      Dim FullFilePath As String, FileType As String, PicPath As String, FileName As String
5      Dim FileObj As Object, FSObj As Object
6      Dim FileRow As Long, JobNumb As Long, LastRow As Long
7      Dim ObjChart As ChartObject
8      Dim PicShape As Shape
9      With Sheet3
10         'Delete any remaining shapes on the sheet
11         For Each PicShape In .Shapes
12             PicShape.Delete
13         Next PicShape
14
15         LastRow = Sheet4.Range("A9999").End(xlUp).Row 'Last Row
16         If LastRow < 3 Then Exit Sub
17         .Activate
18         Set FSObj = CreateObject("Scripting.FileSystemObject")
19
20         For FileRow = 3 To LastRow
21             If Sheet4.Range("F" & FileRow).Value <> Empty Then GoTo NextRow
22
23             JobNumb = Sheet4.Range("A" & FileRow).Value
24             FullFilePath = Sheet4.Range("E" & FileRow).Value
25             FileType = Sheet4.Range("D" & FileRow).Value
26             FileName = FSObj.GetBaseName(FullFilePath) 'File name without extension
27             'On Word, Excel, PDF or Text Type File
28             If InStr(FileType, "xls" ) > 0 Or InStr(FileType, "doc" ) > 0 Or FileType = "pdf"
29                 Then
30                     .Range("A1" ).Select
31                     'On Error GoTo SkipFile
32                     .OLEObjects.Add(FileName:=FullFilePath, Link:=False, DisplayAsIcon:=False).Name =
33                         "ObjectFile"
34
35                     If InStr(FileType, "xls" ) > 0 Then Workbooks(Dir(FullFilePath)).Close
36                     SaveChanges:=False 'Close Workbook
37                     If InStr(FileType, "xls" ) > 0 Then Workbooks(2).Close SaveChanges:=False 'Close
38                     secondary workbook (often hidden if not closed)
39                     With .Shapes("ObjectFile" )
40                         .Left = Sheet3.Range("A1" ).Left
41                         .Top = Sheet3.Range("A1" ).Top
42                         .Width = 586
43                         '.Height = 726
44                     End With
45
46                     .Range("A1:A10" ).CopyPicture
47                     DoEvents
48                     .Paste
49                     Selection.Name = "ThumbPic"
50                     On Error GoTo SkipFile
51                     With .Shapes("ThumbPic" )
52                         .Left = Sheet3.Range("C1" ).Left
53                         .Top = Sheet3.Range("C1" ).Top
54                         .DrawingObject.Formula = "=$A$1:$A$10"
55                         .LockAspectRatio = True
56                         .Width = 100
57                     End With
58                     Application.ScreenUpdating = True
59                     .Calculate
60                 End If
61             'On Picture Type

```

1 2 3

```

58      1 2 3
59      If FileType = "jpg" Or FileType = "jpeg" Or FileType = "png" Or FileType = "bmp"
60      Or FileType = "tiff" Or FileType = "gif" Then '6 most common picture types
61          .Pictures.Insert(FullFilePath).Name = "ThumbPic"
62          With .Shapes("ThumbPic" )
63              If .Width > .Height Then .Width = 100 Else: .Height = 115
64              .Left = Sheet3.Range("C1" ).Left
65              .Top = Sheet3.Range("C1" ).Top
66              .Visible = msoCTrue
67          End With
68      End If
69      DoEvents
70      .Shapes("ThumbPic" ).Select
71      .Shapes("ThumbPic" ).Copy
72      Set ObjChart = ActiveSheet.ChartObjects.Add(200, 200, .Shapes("ThumbPic" ).Width, .
73      Shapes("ThumbPic" ).Height)
74      ObjChart.Activate
75      ActiveChart.Paste
76      PicPath = ThisWorkbook.Path & "\ " & "Thumbnails\" & JobNumb & "_Pic_" & FileName
77      & ".jpg"
78      If Dir(ThisWorkbook.Path & "\ " & "Thumbnails" , vbDirectory) = "" Then Mkdir (
79      ThisWorkbook.Path & "\Thumbnails" ) 'Create a Folder if it does not exist
80      On Error Resume Next
81      Kill (PicPath) 'Delete Any Older File If the Picture
82      On Error GoTo 0
83      ActiveChart.Export FileName:=PicPath, FilterName:="JPEG"
84      ActiveSheet.ChartObjects.Delete
85      Sheet4.Range("F" & FileRow).Value = JobNumb & "_Pic_" & FileName & ".jpg"
86
87      'Cleanup
88      SkipFile:
89      .OLEObjects.Delete
90      Set ObjChart = Nothing
91      On Error Resume Next
92      .Shapes("ThumbPic" ).Delete 'Clear Any Previous Shape Preview (if any)
93      On Error GoTo 0
94      On Error Resume Next
95      .Shapes("ObjectFile" ).Delete 'Clear Any Previous Object File
96      On Error GoTo 0
97
98      Application.CutCopyMode = False 'Clear Clipboard
99      NextRow:
100     Next FileRow
101     End With
102     NoData:
103     Sheet1.Activate
104     End Sub
105
106

```

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```

1  Option Explicit
2  Dim JobRow As Long, JobCol As Long, JobNumb As Long
3  Sub Job_AddNew()
4      Dim ThumbShape As Shape
5      With Sheet1
6          'Remove any old thumbnails
7          For Each ThumbShape In .Shapes
8              If InStr(ThumbShape.Name, "ThumbPic" ) > 0 Then
9                  ThumbShape.Delete
10             End If
11         Next ThumbShape
12         .Range("E3,H5,E5,E7,H7,E9,H9,D14:H28" ).ClearContents 'Clear Fields
13         .Range("B3" ).Value = True 'Set Job To True
14         .Shapes("SaveJobBtn" ).Visible = msoCTrue
15         .Shapes("AddJobBtn" ).Visible = msoFalse
16         .Shapes("UpdateJobBtn" ).Visible = msoFalse
17     End With
18 End Sub
19 Sub Job_CancelNew()
20     If Sheet2.Range("A4" ).Value <> Empty Then Sheet1.Range("E3" ).Value = Sheet2.Range("A4" )
21     .Value
22 End Sub
23
24 Sub Job_Load()
25     Dim ThumbShape As Shape
26     With Sheet1
27         If .Range("B5" ).Value = Empty Then
28             MsgBox "Please select a correct job"
29             Exit Sub
30         End If
31         'Remove any old thumbnails
32         For Each ThumbShape In .Shapes
33             If InStr(ThumbShape.Name, "ThumbPic" ) > 0 Then
34                 ThumbShape.Delete
35             End If
36         Next ThumbShape
37         .Range("H5,E5,E7,H7,E9,H9,D14:H28" ).ClearContents 'Clear Fields
38         JobRow = .Range("B5" ).Value 'Job Row
39         For JobCol = 1 To 6
40             .Range(Sheet2.Cells(1, JobCol).Value).Value = Sheet2.Cells(JobRow, JobCol).Value
41         Next JobCol
42         .Range("B3" ).Value = False 'New Job To False
43         .Shapes("SaveJobBtn" ).Visible = msoFalse
44         .Shapes("UpdateJobBtn" ).Visible = msoCTrue
45         .Shapes("AddJobBtn" ).Visible = msoCTrue
46         Job_LoadFiles 'Run Macro to load files & thumbnails
47     End With
48 End Sub
49
50 Sub Job_LoadFiles()
51     GenerateThumbnail 'Run macro to generate thumbnails (if any are missing)
52     Dim LastRow As Long, LastResultsRow As Long
53     Dim ThumbRow As Long, ThumbCol As Long, LastThumbRow As Long, ThumbNumb As Long
54     Dim ThumbPath As String
55     Dim ThumbShape As Shape
56     With Sheet4
57         LastRow = .Range("A9999" ).End(xlUp).Row 'Last File Row
58         If LastRow < 3 Then GoTo NoData
59         .Range("A2:G" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range("K2:K3" ),
60         CopyToRange:=.Range("M2:S2" ), Unique:=True

```

```

1 2
60 LastResultsRow = .Range("M9999" ).End(xlUp).Row
61 If LastResultsRow < 3 Then GoTo NoData
62 If LastResultsRow > 17 Then LastResultsRow = 17 'Set Max to 15 files
63 LastThumbRow = LastResultsRow + 11
64 Sheet1.Range("D14:F" & LastThumbRow).Value = .Range("N3:P" & LastResultsRow).Value
65 'Copy over File Name, Added On & Type
66 Sheet1.Range("G14:G" & LastThumbRow).Value = .Range("R3:R" & LastResultsRow).Value
67 'Copy Over Thumbnails
68 End With
69
70 'Load Thumbnails
71 With Sheet1
72 'Remove any old thumbnails
73 For Each ThumbShape In .Shapes
74 If InStr(ThumbShape.Name, "ThumbPic" ) > 0 Then
75 ThumbShape.Delete
76 End If
77 Next ThumbShape
78 ThumbCol = 10
79 ThumbRow = 4
80 For ThumbNum = 14 To LastThumbRow
81 If .Range("G" & ThumbNum).Value <> Empty Then 'Thumbnail Exists
82 ThumbPath = ThisWorkbook.Path & "\Thumbnails\" & .Range("G" & ThumbNum).Value
83 'Thumbnail Path
84 On Error GoTo NextPic
85 .Pictures.Insert(ThumbPath).Name = "ThumbPic" & ThumbNum 'Insert & Name
86 Thumbnail
87 With .Shapes("ThumbPic" & ThumbNum)
88 .Left = Sheet1.Cells(ThumbRow, ThumbCol).Left
89 .Top = Sheet1.Cells(ThumbRow, ThumbCol).Top
90 .IncrementLeft 3
91 .IncrementTop 3
92 .Visible = msoCTrue
93 End With
94 .Hyperlinks.Add Sheet1.Shapes("ThumbPic" & ThumbNum), Sheet4.Range("Q" &
95 ThumbNum - 11).Value, , "Click To Open"
96 If ThumbCol = 14 Then 'On last Column, move 6 rows down and reset column
97 ThumbCol = 10
98 ThumbRow = ThumbRow + 8
99 Else: 'Move one column to the right
100 ThumbCol = ThumbCol + 1
101 End If
102 End If
103 NextPic:
104 Next ThumbNum
105 End With
106 NoData:
107 End Sub
108
109
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1 2 3
116 JobNumb = .Range("H5" ).Value
117 JobRow = .Range("B5" ).Value 'Job Row
118 End If
119 For JobCol = 1 To 6
120 Sheet2.Cells(JobRow, JobCol).Value = .Range(Sheet2.Cells(1, JobCol).Value).Value
121 Next JobCol
122 .Range("B3" ).Value = False 'New Job To False
123 .Shapes("SaveJobBtn" ).Visible = msoFalse
124 .Shapes("UpdateJobBtn" ).Visible = msoCTrue
125 .Shapes("AddJobBtn" ).Visible = msoCTrue
126 End With
127
128
129 End Sub
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Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

Thank you so much for your continued shares, likes and support. It really helps.



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