Form Halaman Utama

3. Dim x As Long, y As Long
4. Dim c() As Long, d() As Long
5. Dim p1 As Long, p2 As Long
6. Dim R1 As Long, B1 As Long, G1 As Long
7. Dim R2 As Long, B2 As Long, G2 As Long
8. Dim t As Long, r As Integer
9. Dim per() As Long, msg As String
   Dim PicName() As String
10. Dim perhigh, poshigh As Long
11. Dim i As Integer
12. Private Sub Data()
   13.   List1.Clear
   14.   If Rs.State <> 0 Then Rs.Close
   15.   Rs.Open "SELECT * FROM Gambar order by ID", Con, 1, 2
   16.   If Rs.RecordCount > 0 Then
   17.      Rs.MoveFirst
   18.      While Not Rs.EOF
   19.         List1.AddItem Rs(0)
   20.      Rs.MoveNext
   21.   Wend
   22.   Else
   23.      MsgBox "There Is No Picture In The Database, Please Add Picture First!", 0 & 16, "Image Retrieval (YIQ)"
   24.      Command1.Enabled = False
   25.   End If
   26.   End Sub
27. Private Sub Command1_Click()
28.   Dim x As Long, y As Long
29.   Dim c() As Long, d() As Long
30.   Dim p1 As Long, p2 As Long
31.   Dim R1 As Long, B1 As Long, G1 As Long
32.   Dim R2 As Long, B2 As Long, G2 As Long
33.   Dim t As Long, r As Integer
34.   Dim per() As Long, msg As String
35.   Dim perhigh, poshigh As Long
36.   Dim PicName() As String
37.   t = 35
38.   Form1.Caption = "Image Mapper - Mapping"
39.   Data
40.   ReDim c(List1.ListCount - 1)
46. ReDim d(List1.ListCount - 1)
47. ReDim per(List1.ListCount - 1)
48. ReDim PicName(List1.ListCount - 1)
49. i = 0
50. Do Until i > List1.ListCount - 1
51. Picture3.Cls
52. Picture2.Cls
53. Rs.Find "ID='" & List1.List(i) & "'", 0, adSearchForward, 1
54. PicName(i) = Rs(1)
55. Field2File App.Path & "\TempPic", Rs(2)
56. Picture2.Picture = LoadPicture(App.Path & "\TempPic")
57. d(i) = 0
58. c(i) = 0
59. x = 0
60. y = 0
61. Do Until y > Picture1.Height Or y > Picture2.Height
62. p1 = Picture1.Point(x, y)
63. p2 = Picture2.Point(x, y)
64. RGB_get p1, R1, B1, G1
65. RGB_get p2, R2, B2, G2
66. Diff r, R1, R2, B1, B2, G1, G2, t
67. If r = 0 Then
68. d(i) = d(i) + 1
69. Picture3.PSet (x, y), vbBlue
70. Else
71. Picture3.PSet (x, y), vbRed
72. End If
73. c(i) = c(i) + 1
74. x = x + 15
75. If x > Picture1.Width Or x > Picture2.Width Then x = 0: y = y + 15
76. Loop
77. per(i) = 100 - ((d(i) / c(i)) * 100)
78. i = i + 1
79. Loop
80. perhigh = per(0)
81. poshigh = 0
82. For i = 0 To List1.ListCount - 1
83. If perhigh <= per(i) Then
84. perhigh = per(i)
85. poshigh = i
86. End If
87. Next i
88. If perhigh > 75 Then
Label1.Caption = "This Picture Have A Similarity With Picture " & PicName(poshigh) & " In The Database"

Else
Label1.Caption = "This Picture Does Not Have Similarity With Any Picture In The Database." & vbCrLf & "The Nearest Similarity Is With Picture " & PicName(poshigh) & vbCrLf

End If

Rs.Find "ID='" & List1.List(poshigh) & "," & 0, adSearchForward, 1
Field2File App.Path & "\TempPic", Rs(2)
Picture2.Picture = LoadPicture(""
Picture3.Picture = LoadPicture(App.Path & "\TempPic")
Label5.Caption = "Total Pixels Detected: " & c(poshigh)
Label6.Caption = "Total Different Pixels: " & d(poshigh)
Label7.Caption = "Total Similar Pixels: " & (c(poshigh) - d(poshigh))
Label8.Caption = "Percent Similar: " & per(poshigh) & " %"

End Sub

Private Sub Command2_Click()
Unload Me
End Sub

Private Sub Command3_Click()
Dim x As Long, y As Long
Dim p1 As Long, p2 As Long
Dim R1 As Long, B1 As Long, G1 As Long
Dim R2 As Long, B2 As Long, G2 As Long
Dim Ra As Long, Ba As Long, Ga As Long
Picture3.Cls

t = Text1.Text
Form1.Caption = "Image Mapper - Mapping"
Do Until y > Picture1.Height Or y > Picture2.Height
p1 = Picture1.Point(x, y)
p2 = Picture2.Point(x, y)
RGB_get p1, R1, B1, G1
RGB_get p2, R2, B2, G2
Ra = (R1 + R2) / 2
Ba = (B1 + B2) / 2
Ga = (G1 + G2) / 2

If Ga = -1 Then GoSub 10

Picture3.PSet (x, y), RGB(Ra, Ba, Ga)

10

x = x + 15
If x > Picture1.Width Or x > Picture2.Width Then
   x = 0: y = y + 15
Loop

Form1.Caption = "Image Mapper - Mapped"

End Sub

Private Sub Command4_Click()
   On Error GoTo Killer
   CommonDialog1.ShowOpen
   Picture1 = LoadPicture(CommonDialog1.FileName)
   Exit Sub
Killer:
   MsgBox "Error!", 0 & 16, "Error:"
   End Sub

Private Sub Command5_Click()
   On Error GoTo Killer
   CommonDialog1.ShowOpen
   Picture2 = LoadPicture(CommonDialog1.FileName)
   Exit Sub
Killer:
   MsgBox "Error!", 0 & 16, "Error:"
   End Sub

Private Sub Command6_Click()
   Form2.Show 1
   End Sub

Private Sub Form_Load()
   If Con.State <> 0 Then Con.Close
   Konek
   Data
   End Sub

Private Sub Picture1_Resize()
   If Picture1.Width > 3255 Or Picture1.Height > 3255 Then
      MsgBox "This Picture Dimension Is Too Big To Process!", 0 & 16, "Image Retrieval (YIQ)"
   Picture1.Width = 3255
Private Sub Picture1_Resize()
    If Picture1.Width > 3255 Then
        MsgBox "This Picture Dimension Is Too Big To Process!", 0 & 16, "Image Retrieval (YIQ)"
        Picture1.Width = 3255
        Picture1.Height = 3255
    Exit Sub
End Sub

Private Sub Picture2_Resize()
    If Picture2.Width > 3255 Or Picture2.Height > 3255 Then
        MsgBox "This Picture Dimension Is Too Big To Process!", 0 & 16, "Image Retrieval (YIQ)"
        Picture2.Width = 3255
        Picture2.Height = 3255
    Exit Sub
End Sub

Private Sub Timer1_Timer()
    If i < List1.ListCount - 1 Then
        i = i + 1
        CheckPicture
    Else
        ShowResult
    End If
    Timer1.Enabled = False
End Sub

Private Sub Auto()
    Check = True
    For i = 1 To lstSidik(0).ListCount
        If lstSidik(0).List(i - 1) <> Right("P000" & i, 6) Then
            ID = Right("P000" & i, 6)
            Check = False
        End If
        Next i
    If Check Then
        ID = Right("P000" & lstSidik(0).ListCount + 1, 6)
    End If
End Sub

Private Sub Data()
lstSidik(0).Clear
If Rs.State <> 0 Then Rs.Close
Rs.Open "SELECT * FROM Gambar order by ID", Con, 1, 2
If Rs.RecordCount > 0 Then
    Rs.MoveFirst
    While Not Rs.EOF
        lstSidik(0).AddItem Rs(0)
        Rs.MoveNext
    Wend
Else
    Frame1.Enabled = True
    Locks (False)
    SetEmpty
    Auto
    Command1.Enabled = True
    Command2(4).Enabled = True
    Command2(4).Caption = "Save"
    Text1 = ID
End If
End Sub
Private Sub Locks(val As Boolean)
    For i = 0 To 6
        Command2(i).Enabled = val
    Next i
End Sub
Private Sub SetEmpty()
    Text1 = ""
    Text2 = ""
End Sub
Private Sub SaveData()
    If Mode = "Add" Then
        Rs.AddNew
        Rs(0) = Text1
        Rs(1) = Text2
        File2Field CommonDialog1.FileName, Rs(2)
        Rs.Update
    Else
        Rs.Find "ID=" & Text1 & ":", 0, adSearchForward, 1
        Rs(1) = Text1
        File2Field CommonDialog1.FileName, Rs(2)
        Rs.Update
    End If
End Sub
Private Sub Tampil()
    Text1 = lstSidik(0).List(J)
Rs.Find "ID='" & Text1 & "'", 0, adSearchForward, 1
Text2 = Rs(1)
Field2File App.Path & "\TempPic", Rs(2)
Picture1.Picture = LoadPicture(App.Path & "\TempPic")
Image1.Picture = Picture1.Picture
End Sub

Private Sub Command1_Click()
CommonDialog1.Filter = "Picture Files (BMP & JPG)|*.bmp;*.jpg"
CommonDialog1.ShowOpen
If CommonDialog1.FileName <> "" Then
PicPath = CommonDialog1.FileName
Picture1 = LoadPicture(PicPath)
Image1.Picture = Picture1.Picture
For i = Len(PicPath) To 1 Step -1
If Mid(PicPath, i, 1) = "\ Then
ShrtPath = Mid(PicPath, i + 1, Len(PicPath) - i)
Exit For
End If
Next i
Text2 = ShrtPath
End If
End Sub

Private Sub Command2_Click(Index As Integer)
Select Case Index
Case 0
J = 0
Case 1
If J > 0 Then
J = J - 1
Else
J = 0
End If
Case 2
If J < lstSidik(0).ListCount - 1 Then
J = J + 1
Else
J = lstSidik(0).ListCount - 1
End If
Case 3
J = lstSidik(0).ListCount - 1
Case 4
If Command2(4).Caption = "Add" Then
Command1.Enabled = True
Command2(4).Caption = "Save"
Command2(7).Caption = "Cancel"
Locks (False)
Frame1.Enabled = True
Command2(4).Enabled = True
SetEmpty
Auto
Text1 = ID
Picture1.Picture = LoadPicture(""
Image1.Picture = Picture1.Picture
Mode = "Add"
Else
SaveData
Command1.Enabled = False
Command2(4).Caption = "Add"
Command2(7).Caption = "Exit"
Locks (True)
Frame1.Enabled = False
Data
lstSidik(0).ListIndex = lstSidik(0).ListCount - 1
End If
Case 5
If Command2(5).Caption = "Edit" Then
Command1.Enabled = True
Command2(5).Caption = "Save"
Command2(7).Caption = "Cancel"
Locks (False)
Frame1.Enabled = True
Command2(5).Enabled = True
Mode = "Edit"
Else
SaveData
Command1.Enabled = False
Command2(5).Caption = "Edit"
Command2(7).Caption = "Exit"
Locks (True)
Frame1.Enabled = False
Data
lstSidik(0).ListIndex = J
End If
Case 6
If MsgBox("Delete This Picture From Database?", vbYesNo + vbQuestion, "Image Retrieval (YIQ)") = vbYes Then
Rs.Find "ID='" & Text1 & "'", 0, adSearchForward, 1
Rs.Delete
Picture1.Picture = LoadPicture(""
Data
If lstSidik(0).ListCount > 0 Then
lstSidik(0).ListIndex = 0
End If
371. Case 7
372.    If Command2(7).Caption = "Cancel"
373.        Then
374.        Frame1.Enabled = False
375.        Locks (True)
376.        Command2(4).Caption = "Add"
377.        Command2(5).Caption = "Edit"
378.        Command2(7).Caption = "Exit"
379.        lstSidik(0).ListIndex = J
380.        Tampil
381.        Else
382.        Unload Me
383.        End If
384.    End Select
385.    If Index >= 0 And Index <= 3 Then
386.        lstSidik(0).ListIndex = J
387.    End If
388. End Sub
389. Private Sub Form_Load()
390.    If Con.State <> 0 Then Con.Close
391.    Konek
392.    Picture1.Width = 150
393.    Picture1.Height = 150
394.    Data
395.    If lstSidik(0).ListCount > 0 Then
396.        lstSidik(0).ListIndex = 0
397.        Command1.Enabled = False
398.    Else
399.        Mode = "Add"
400.        Command1.Enabled = True
401.    End If
402. End Sub
403. Private Sub lstSidik_Click(Index As Integer)
404.    J = lstSidik(0).ListIndex
405.    Tampil
406. End Sub
407. End Sub