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Imports System.IO
Imports System.Text

Module Module1
    Public fileReader As System.IO.StreamReader
    Public fileWriter As System.IO.StreamWriter

    Public Function HowManyDays(UserDate As String) As Integer
        '
        ' How many days between the supplied date and the current date?
        ' (User date is of the form dd-mmm-yyyy)
        '
        Dim Gap, myYear As Integer
        Dim tempstring As String
        Dim WildcardFlag As Boolean

        tempstring = Mid(UserDate, 1, 11)
        WildcardFlag = (Mid(tempstring, 8, 4) = "****")
        If WildcardFlag Then
            myYear = Date.Today.Year
            tempString = Mid(tempString, 1, 7) + Format(myYear, "####")
            Gap = DateDiff(DateInterval.Day, Now.Date,
                           DateTime.ParseExact(tempstring, "dd-MMM-yyyy",
                                                 Nothing))
            If Gap < 0 Then
                tempString = Mid(tempString, 1, 7) + Format(myYear + 1, "####")
            End If
        End If

        HowManyDays = DateDiff(DateInterval.Day, Now.Date,
                               DateTime.ParseExact(tempstring, "dd-MMM-yyyy",
                                                     Nothing))
    End Function

    Public Sub GetReminderData()
        '
        ' Get the reminder records from the file and load into a listbox
        ' control
        '
        Dim InputRecord As String
        Dim TempStr As String
        Dim Gap As Integer

        fileReader = My.Computer.FileSystem.OpenTextFileReader(myFilename)
        Do
            InputRecord = fileReader.ReadLine
            If Len(InputRecord) = 0 Then
                Exit Do
            Else

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        TempStr = FormatListBoxEntry(InputRecord)
        Gap = HowManyDays(TempStr)
        If (Form2.RadioButton1.Checked And Gap >= 0) Or
            (Form2.RadioButton2.Checked And Gap < 0) Or
            (Form2.RadioButton3.Checked) Or
            (Form2.RadioButton4.Checked And Gap >= 0 And Gap <= 60)
        Then
            Form2.ListBox2.Items.Add(TempStr)
        End If
    End If
Loop
fileReader.Close()
End Sub

Public Sub RewriteDataFile()
    '
    ' Overwrite the reminder file with the listbox contents.
    '
    Dim i As Object
    fileWriter = My.Computer.FileSystem.OpenTextFileWriter(myFilename,
        False)
    For Each i In Form2.ListBox2.Items
        fileWriter.WriteLine(UnformatListBoxEntry(i.ToString))
    Next
    fileWriter.Close()
End Sub

Function FormatListBoxEntry(inputrecord As String) As String
    '
    ' Format the reminder file record for the listbox
    '
    Dim GapString As String
    Dim Gap As Integer

    Gap = HowManyDays(inputrecord)
    If Gap < 0 Then
        GapString = " days since "
    Else
        GapString = " days until "
    End If
    FormatListBoxEntry = Mid(inputrecord, 1, 11) +
        Strings.Right(Space(5) + Format(Gap, "#####"), 5)
        +
        GapString + Mid(inputrecord, 13)
End Function

Function UnformatListBoxEntry(myentry As String) As String
    '
    ' Un-format the listbox entry ready for writing to the reminder file
    '
    UnformatListBoxEntry = Mid(myentry, 1, 11) + Mid(myentry, 28)

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End Function  
End Module
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