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'Dan Morgan Copyright 2006 VisuMAX
'This application will retrieve current weather from NOAA using XML.
'Feel free to use or don't ;-)
Imports System.Xml
Imports System.Drawing
Public Class frmVisuWeather
    Private ShowForm As Boolean
    Public TrayWeather As String
    Public Inetconn As Boolean
    Public OldICAO As String
    Public ICAO As String

    Private Sub frmVisuWeather_Load(ByVal sender As System.Object, ByVal e As System.
        EventArgs) Handles MyBase.Load
        tmrVisuWeather.Enabled = True

        Call VisuWeatherStatus()

        ShowForm = True 'Form is open

        With nfi
            .Visible = False 'hide icon while the form is visible
            .Text = TrayWeather 'Show the current weather
            .Icon = Me.Icon
        End With

    End Sub

    Public Sub VisuWeatherStatus()
        Try
            ICAO = My.Settings.ICAO 'Set the users ICAO

            ' Retrieve XML document
            Dim reader As XmlTextReader = New XmlTextReader("http://www.weather.gov/data/
current_obs/" & ICAO & ".xml")
            Dim parse_xmld As XmlDocument

            'URL to current weather icon for current condition.
            Dim VisuWeatherIcon As String

            Dim path As String
            path = Application.StartupPath 'Path to VisuWeather

            'Dim VisuWeather As String
            'Dim parse_xmlnodelist As XmlNodeList
            'Dim parse_xmlnode As XmlNode

            parse_xmld = New XmlDocument()
            parse_xmld.Load(reader)

            Dim location As XmlNodeList = parse_xmld.GetElementsByTagName("location")
            Dim tempet As XmlNodeList = parse_xmld.GetElementsByTagName(
"temperature_string")
            Dim wind As XmlNodeList = parse_xmld.GetElementsByTagName("wind_string")
            Dim weather As XmlNodeList = parse_xmld.GetElementsByTagName("weather")
            Dim humidity As XmlNodeList = parse_xmld.GetElementsByTagName(
"relative_humidity")
            Dim pressure As XmlNodeList = parse_xmld.GetElementsByTagName("pressure_in")
            Dim dewpoint As XmlNodeList = parse_xmld.GetElementsByTagName("dewpoint_string
")
            Dim windchill As XmlNodeList = parse_xmld.GetElementsByTagName(
"windchill_string")
```

```
Public Class VisuWeatherIACO
    Public OldICAO As String
    Private Sub btnSaveICAO_Click(ByVal sender As System.Object, ByVal e As System.
        EventArgs) Handles btnSaveICAO.Click
        ApplyTheSettings()

        VisuWeather.frmVisuWeather.VisuWeatherStatus() 'Update the ICAO information
        Me.Hide()

    End Sub

    Private Sub ApplyTheSettings()
        Dim ICAOLen As Integer

        ICAOLen = Len(txtICAO.Text)

        If txtICAO.Text <> "" Then
            If ICAOLen = 4 Then
                With My.Settings
                    .ICAO = txtICAO.Text 'apply the user settings.
                End With
            ElseIf ICAOLen <> 4 Then
                MsgBox("ICAO invalid. Reset last known good ICAO", MsgBoxStyle.Critical,
                    "Invalid ICAO")
                My.Settings.Reset() 'Reset to default
            End If
        End If

    End Sub

    Private Sub lnkFindIcao_LinkClicked(ByVal sender As System.Object, ByVal e As System.
        Windows.Forms.LinkLabelLinkClickedEventArgs) Handles lnkFindIcao.LinkClicked
        Try
            System.Diagnostics.Process.Start("http://www.nws.noaa.gov/tg/siteloc.shtml")
        Catch ex As Exception
            MsgBox("Can't get to NOAA. Internet connection or Site may be down",
                MsgBoxStyle.Critical, "VisuWeather Error")
        End Try
    End Sub
End Class
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Dim visibility As XmlNodeList = parse_xmlld.GetElementsByTagName("visibility_mi")
Dim imgweather As XmlNodeList = parse_xmlld.GetElementsByTagName("icon_url_base")
Dim iconweather As XmlNodeList = parse_xmlld.GetElementsByTagName("icon_url_name")

'VisuWeather = "Temp: " & tempet(0).InnerText & Chr(13) & Chr(10) & "Wind: " &
wind(0).InnerText & Chr(13) & Chr(10) & "Weather: " & weather(0).InnerText
TrayWeather = weather(0).InnerText & "::" & tempet(0).InnerText
nfi.Text = TrayWeather 'Update Tray weather text
VisuWeatherIcon = imgweather(0).InnerText & iconweather(0).InnerText

pbWeather.ImageLocation = VisuWeatherIcon
lblLocation2.Text = location(0).InnerText
lblTemp2.Text = tempet(0).InnerText
lblWind2.Text = wind(0).InnerText
lblWeather2.Text = weather(0).InnerText
lblHumidity2.Text = humidity(0).InnerText
lblPressure2.Text = pressure(0).InnerText
lblDewPoint2.Text = dewpoint(0).InnerText
lblWindChill2.Text = windchill(0).InnerText
lblVisibility2.Text = visibility(0).InnerText

lblLastUpdate2.Text = Format(Now, "M/d/yy - H:mm") & " hrs." 'Show user last
update

Catch ex As Exception
Inetconn = False 'We don't have an internet connection, or bad ICAO
If Inetconn = False Then
    TrayWeather = "Weather: Not Available for location."
    MsgBox("Can't get weather. Feed Not available. Maybe connection down or
bad ICAO?", MsgBoxStyle.Critical, "Error")
    clear_all() 'clear out all the data
    lblLocation2.Text = "No Weather Data"
End If

End Try
End Sub

Private Sub tmrVisuWeather_Tick(ByVal sender As System.Object, ByVal e As System.
EventArgs) Handles tmrVisuWeather.Tick
    tmrVisuWeather.Interval = 1800000 'Check weather every 30 mins
    VisuWeatherStatus()
End Sub

Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnExit.Click
    shutdown()
End Sub

Protected Sub shutdown()
    nfi.Visible = False
    Application.Exit()
End Sub

Private Sub btnTaskTray_Click(ByVal sender As System.Object, ByVal e As System.
EventArgs) Handles btnTaskTray.Click
    Me.Hide()
    ShowForm = False
    nfi.Visible = True
End Sub

Private Sub nfi_MouseDoubleClick(ByVal sender As System.Object, ByVal e As System.
Windows.Forms.MouseEventHandler) Handles nfi.MouseDoubleClick
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nfi.Visible = False
ShowForm = True
Me.Show()
End Sub
```

```
Private Sub WeatherToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles WeatherToolStripMenuItem.Click
    Try
        System.Diagnostics.Process.Start("http://www.weather.com/")
    Catch ex As Exception
        MsgBox("Can't get weather. Feed or Internet connection may be down",
            MsgBoxStyle.Critical, "Error")
    End Try
End Sub
```

```
Private Sub VisumaxcomToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles VisumaxcomToolStripMenuItem.Click
    Try
        System.Diagnostics.Process.Start("http://www.visumax.com/")
    Catch ex As Exception
        MsgBox("Can't get to VisuMAX.com. Internet connection or Site may be down",
            MsgBoxStyle.Critical, "Error")
    End Try
End Sub
```

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Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ExitToolStripMenuItem.Click
    shutdown()
End Sub
```

```
Private Sub btnChange_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnChange.Click
    Dim frmICAO As New VisuWeatherIACO
    frmICAO.Show()
End Sub
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Private Sub clear_all()
    'Clear out all the lables and pic box
    'I miss control array's :(
    pbWeather.ImageLocation = ""
    lblLocation2.Text = ""
    lblTemp2.Text = ""
    lblWind2.Text = ""
    lblWeather2.Text = ""
    lblHumidity2.Text = ""
    lblPressure2.Text = ""
    lblDewPoint2.Text = ""
    lblWindChill2.Text = ""
    lblVisibility2.Text = ""
End Sub
```

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End Class
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