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McDork - April 25, 2013, 1:40 pm

INI Filesystem

So, here is my INI File system. I'm not going to spend ages explaining it - I'm tired.

The system allows easy file creation, edition and removal. The natives are designed to the best of my ability to be bug-free and of course, efficient. I made this so it would be easier for me to create files in my projects! :)

Functions ([Click to View](#))

Function: iniGet(file, key)

Parameters: "file" = The file to read the data from

"key" = They ini key to read the data from

Return: fetched data as String

Function: iniSet(file, key, data)

Parameters: "file" = The file to write the data to

"key" = They ini key to write the data to (if they key does not exist, it will be created)

"data" = The data to write to the ini key in the file

Retun: an integer value, either 1 (write succeeded) or -1 (write failed - function terminated due to error or finished with no write)

Function: strFind(haystack, needle)

Parameters: "haystack" = The string to search in

"needle" = The string to search for

Return: an integer value, the start position of the string - it will return -1 if it was not found

Function: CreateFile(file)

Parameters: "file" = The file to create

Return: 1 on success (file created), or 0 otherwise (file already exists).

Function: GetLineFromString(str)

Parameters: "str" = The string to look in

Return: The position of the new line reference (Environment.NewLine). -1 if an error occured or it could not be found.

Function: DeleteFile(file)

Parameters: "file" = The file to delete

Return: 1 on success (file deleted), or 0 otherwise (file failed to delete).

The INI VB code:

Code Module ini

```
Function iniGet(ByVal file As String, ByVal key As String) As String
If (System.IO.File.Exists(file) = False) Then
```

```
MsgBox("iniGet Error: Unable to open file to read")
Return vbNullString
Exit Function
End If
```

```
Dim OpenFile As New System.IO.StreamReader(file)
Dim tmpKey As String = vbNullString
Dim tmpData As String = vbNullString
Dim tmpLine As String = ""
```

```
While OpenFile.Peek <> -1
    tmpLine = OpenFile.ReadLine()
    If (strFind(tmpLine, "=") <> 0 Or strFind(tmpLine, "=") <> -1) Then
        If (tmpLine = "") Then
            MsgBox("iniGet Read Blankspace. Cannot continue.")
            OpenFile.Close()
            Return vbNullString
            Exit Function
            End If
        tmpKey = Microsoft.VisualBasic.Left(tmpLine, strFind(tmpLine, "="))
        If (tmpKey = key) Then
            Dim tmpRevLen As Integer = Microsoft.VisualBasic.Len(tmpLine) - (strFind(tmpLine, "=") + 1)
            tmpData = Microsoft.VisualBasic.Right(tmpLine, tmpRevLen)
            OpenFile.Close()
            Return tmpData
            Exit Function
            End If
        End If
    End While
OpenFile.Close()
Return vbNullString
End Function
```

```
Function iniSet(ByVal file As String, ByVal key As String, ByVal data As String)
If (System.IO.File.Exists(file) = False) Then
    Return -1
    Exit Function
End If
```

```
Dim tmpKey As String
Dim tmpData As String
Dim tmpLine As String = ""
Dim tmpFileContent As String
```

```
Dim tmpFile As New System.IO.StreamReader(file)
tmpFileContent = tmpFile.ReadToEnd()
tmpFile.Close()
```

```
Dim OpenFile As New System.IO.StreamReader(file)
If (Microsoft.VisualBasic.Val(iniGet(file, key)) <> -1) Then
    While OpenFile.Peek() <> -1
        tmpLine = OpenFile.ReadLine()
        If (strFind(tmpLine, "=") <> -1) Then
```

```

tmpKey = Microsoft.VisualBasic.Left(tmpLine, strFind(tmpLine, "="))
If (tmpKey = key) Then
    Dim tmpRevLen As Integer = Microsoft.VisualBasic.Len(tmpLine) - (strFind(tmpLine, "=") + 1)
    tmpData = tmpKey & "=" & Microsoft.VisualBasic.Right(tmpLine, tmpRevLen)
    OpenFile.Close()
    Dim OpenFileWrite As New System.IO.StreamWriter(file)
    OpenFileWrite.Write("")
    tmpFileContent = Microsoft.VisualBasic.Strings.Replace(tmpFileContent, tmpData, key & "=" &
data)
    OpenFileWrite.Write(tmpFileContent)
    OpenFileWrite.Close()
    Return 1
    Exit Function
End If
End If
End While
End If
'Else
OpenFile.Close()
Dim _OpenFile As New System.IO.StreamWriter(file, True)

_OpenFile.WriteLine(key & "=" & data)
_OpenFile.Close()
Return 1
Exit Function
End Function

Function strFind(ByVal haystack As String, ByVal needle As String)
Return Microsoft.VisualBasic.Strings.InStr(haystack, needle) - 1
End Function

Function CreateFile(ByVal file As String)
If (System.IO.File.Exists(file)) Then
    Return 0
    Exit Function
End If
Dim CreatedFile As FileStream = System.IO.File.Create(file)
CreatedFile.Close()
Return 1
End Function

Function GetLineFromString(ByVal str As String)
For I = 0 To Microsoft.VisualBasic.Len(str) - 1
    If (str(I) = Environment.NewLine) Then
        GetLineFromString = Microsoft.VisualBasic.Left(str, I)
        Exit Function
    End If
Next
Return -1
End Function

Function DeleteFile(ByVal file As String)
If (System.IO.File.Exists(file)) Then

```

```
System.IO.File.Delete(file)
Else
Return 0
Exit Function
End If
Return 1
End Function
```

End Module

'MCDORK - hackforums.net 2013 - DO NOT DISTRIBUTE. Save the file to your main project folder as 'ini.vb' (or whatever you want to call it)

Hope you enjoy! If you have any questions, please post here :)

I'm not all that protective, but please make sure you keep my name at the bottom of it! :)

ident - April 25, 2013, 1:58 pm

First turn strict on. Learn data types. Learn about code reuse. Take this

```
Code Function DeleteFile(ByVal file As String)
If (System.IO.File.Exists(file)) Then
System.IO.File.Delete(file)
Else
Return 0
Exit Function
End If
Return 1
End Function
```

Functions should have an As clause. Why are you returning 0 or 1? Where is the functions modifier? What about exception handling?

You are using loads of VB6 left overs also.

Yui Asuna - April 25, 2013, 4:44 pm

Msgbox.

Microsoft.VisualBasic.Len.

Like Ident stated, now, let's turn Option Strict on...

This method is far from being efficient.

You could just do something like that:

It's smaller, no ?

ident - April 26, 2013, 3:15 pm

this edit is getting worse. how is System.IO.File.Exist compatible with net? You really have no fucking clue what u copy and pasted above

Yui Asuna - April 26, 2013, 3:17 pm

System.IO ?

Compatible with .Net ?

Since when ?

0xDEAD10CC - April 27, 2013, 1:16 am

An INI filesystem? ?... Windows started out with INI for settings and configuration, and then realized that it was horrible for larger and more complex data, which is why XML, and also the Registry exists

today. So what is the reasoning behind this idea of using it as a filesystem?

Kapoor - April 27, 2013, 7:54 pm

```
Code Private Declare Ansi Function GetPrivateProfileString Lib "kernel32.dll" Alias  
"GetPrivateProfileStringA" (ByVal lpApplicationName As String, ByVal lpKeyName As String, ByVal  
lpDefault As String, ByVal lpReturnedString As String, ByVal nSize As Int32, ByVal lpFileName As  
String) As Int32
```

```
Private Declare Ansi Function WritePrivateProfileString Lib "kernel32.dll" Alias  
"WritePrivateProfileStringA" (ByVal lpApplicationName As String, ByVal lpKeyName As String,  
ByVal lpString As String, ByVal lpFileName As String) As Int32
```

```
Public Function INI_ReadValueFromFile(ByVal strSection As String, ByVal strKey As String,  
ByVal strDefault As String, ByVal strFile As String) As String  
Dim strTemp As String = Space(1024), lLength As Integer  
lLength = GetPrivateProfileString(strSection, strKey, strDefault, strTemp, strTemp.Length, strFile)  
Return (strTemp.Substring(0, lLength))  
End Function
```

```
Public Function INI_WriteValueToFile(ByVal strSection As String, ByVal strKey As String, ByVal  
strValue As String, ByVal strFile As String) As Boolean  
Return (Not (WritePrivateProfileString(strSection, strKey, strValue, strFile) = 0))  
End Function  
Code INI_ReadValueFromFile("Test", "Test", "", ".\settings.ini")  
Code INI_WriteValueToFile("Test", "Test", "A text", ".\settings.ini")
```