

Forum:[Hack Forums](#)

Thread: [Parsing file name from URL the proper way!](#)

Proton! - December 6, 2014, 1:00 pm

Hello there HF! -- Been a little while since I've contributed, so I figured I'd do so. I'm sure (not really) we all have been a situation where we needed to make a program that downloads and executes a file from a website.

Well that should be pretty simple, shouldn't it? Isn't that just taking the file name from the link itself by finding the last slash? E.g www.example.com/download/test.jpg

Well, this works to an extent but it requires the website to have a direct download link with the file name in the link. What if the download link looks like this: www.example.com/download.php?id=1. Well that could be a problem The file name returned when using the previous method would then be "download.php?id=1". Well, there is a solution!

It's quite simple; it just requires the use of the `HttpWebRequest` and `HttpWebResponse` classes.

First you create a URI from a string and an `HttpWebRequest` by doing so:

Code Dim Target As Uri

```
If Uri.TryCreate(TextBox1.Text, UriKind.Absolute, Target) Then
```

```
    Dim Request As HttpWebRequest = HttpWebRequest.Create(Target)
```

```
    Request.Method = "GET"
```

```
    Request.Timeout = 120000 '2 minutes timeout
```

The timeout is optional of course. The `TryCreate` is not necessary, but it's nice to have in case there is a user that inputs the link (error checking)

Now we create a result from the request by doing so:

Code Dim Result As `HttpWebResponse` = Request.GetResponse()

Note: For the sake of simplicity I use the synchronous `GetResponse()` method, depending on the timeout you set, the UI may freeze if you didn't. Now once that is done we have to get the file name using the `HttpWebResponse` object. We will do the following:

Code Dim Filename As String = Result.ResponseUri.LocalPath

```
Filename = Filename.Substring(Filename.LastIndexOf("/") + 1)
```

```
MessageBox.Show(Filename)
```

What we are doing here is declaring a string called `Filename` and we assign that the `LocalPath` property. We then change filename to the substring after the last index of `"/"`, this is because the `LocalPath` gives us the folder the file is inside on the remote server.

Now our code looks like this:

Code Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

```
    Dim Target As Uri
```

```
    If Uri.TryCreate(TextBox1.Text, UriKind.Absolute, Target) Then
```

```
        Dim Request As HttpWebRequest = HttpWebRequest.Create(Target)
```

```
        Request.Method = "GET"
```

```

Request.Timeout = 120000 '2 minutes timeout
Dim Result As HttpWebResponse = Request.GetResponse() 'This can be made
asynchronous using the .BeginGetResponse method
Dim Filename As String = Result.ResponseUri.LocalPath
Filename = Filename.Substring(Filename.LastIndexOf("/") + 1)
MessageBox.Show(Filename)
Else
    MessageBox.Show("The inputted link is invalid...", "Error", MessageBoxButtons.OK,
    MessageBoxIcon.Error)
End If

End Sub
The Result \(Click to View\)

```

If you would like to download my VS Solution, you may do so [here](#)

I hope you all enjoy ?

SIM-1456245 - December 6, 2014, 1:42 pm

Wow I must say, amazing tutorial bro. Nice concept and very nice explanation. Keep it up.

Proton! - December 6, 2014, 1:54 pm

(Dec 6, 2014 02:42 PM)Electroalek Wrote: [\[CITE\]](#) Wow I must say, amazing tutorial bro. Nice concept and very nice explanation. Keep it up.

Thanks Electro! I have been so busy with school lately and working on Proton RAT so I haven't been able to contribute much :/

Only3 - December 6, 2014, 1:56 pm

? Net.HttpWebRequest.Create(New Uri("Url",
UriKind.Absolute)).GetResponse.ResponseUri.LocalPath

Proton! - December 6, 2014, 1:58 pm

(Dec 6, 2014 02:56 PM)Only3 Wrote: [\[CITE\]](#) ? Net.HttpWebRequest.Create(New Uri("Url",
UriKind.Absolute)).GetResponse.ResponseUri.LocalPath

I like to explain every single line of code so that others that don't understand, will :)

SIM-1456245 - December 6, 2014, 2:07 pm

(Dec 6, 2014 02:56 PM)Only3 Wrote: [\[CITE\]](#) ? Net.HttpWebRequest.Create(New Uri("Url",
UriKind.Absolute)).GetResponse.ResponseUri.LocalPath

God damn it man, stop with the one liners. I told you to take the AntiOneLiner Pills already.

Only3 - December 6, 2014, 2:09 pm

? its good tut i bet for 99% its new

Proton! - December 6, 2014, 3:55 pm

(Dec 6, 2014 03:09 PM)Only3 Wrote: [\[CITE\]](#) ? its good tut i bet for 99% its new

Thanks :) -- One liners argh ahha xD