HTTP modules and HTTP handlers in ASP.Net MVC?

Asked 3 years, 2 months ago Active 1 year, 8 months ago Viewed 20k times



I was asked a question in interview that how to implement HTTP module and HTTP handler in ASP.Net MVC. I know that they are used in ASP.Net to write pre-processing logic before the aspx page is called. But in ASP.Net MVC we have filters for that so i told them we use Filters for that. Did i gave the right answer?





httphandler http

httpmodule



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edited Nov 4 '16 at 14:10

asked Nov 4 '16 at 13:57



857 2 8

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Filters are only invoked for requests handled by controllers. To be more general you would have to use IHttpHandler and IHttpModule... unless you're in OWIN in which case it would be an OWIN Middleware class. – Dai Nov 4 '16 at 14:13

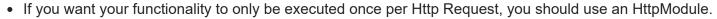
I didn't get you here. I'm not sure about OWIN - rohit singh Nov 4 '16 at 14:23

1 Answer



Action Filters allow you to hook into *MVC specific events only*, whereas **HTTP Modules** allow you to hook into *ASP.Net events*. So even in MVC, to implement a HTTP Module and HTTP handler, you will need to implement corresponding interface.

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ActionFilters may be executed several times in a single trin to the server

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To explain HTTP Modules and HTTP Handlers, HTTP module and HTTP handler are used by MVC to inject pre-processing logic in the request chain.

- HTTP Handlers are extension based pre-processor whereas HTTP Module are event based preprocessor.
 - For example: if you want to change how <code>jpg</code> files are processed, you will implement custom HTTP handler versus if you want to execute additional logic during processing of the request, you will implement a custom HTTP module. There is always only one HTTP handler for a specific request but there can be multiple HTTP modules.

To Implement an HTTP Handler:

You implement InttpHandler class and implement ProcessRequest method and IsResuable property. IsResuable property determines whether handler can be reused or not.

```
public class MyJpgHandler: IHttpHandler
{
    public bool IsReusable => false;
    public void ProcessRequest(HttpContext context)
    {
        // Do something
    }
}
```

Next we need to specify which kind of request will be handled by our custom handler in web.config file:

```
<httpHandlers>
     <add verb="*" path="*.jpg" type="MyJpgHandler"/>
</httpHandlers>
```

To implement an HTTP module:

We need to implement IHttpModule and register the required events in Init method. As a simple example, if we wanted to log all requests:

```
public class MyHttpModule: IHttpModule
{
```

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```
application.BeginRequest += new EventHandler(this.context BeginRequest);
         application.EndRequest += new EventHandler(this.context EndRequest);
     public void context BeginRequest(object sender, EventArgs e)
         StreamWriter sw = new StreamWriter(@ "C:\log.txt", true);
         sw.WriteLine("Request began at " + DateTime.Now.ToString());
         sw.Close();
     public void context_EndRequest(object sender, EventArgs e)
         StreamWriter sw = new StreamWriter(@ "C:\log.txt", true);
         sw.WriteLine("Request Ended at " + DateTime.Now.ToString());
         sw.Close();
     public void Dispose() {}
And register our module in web.config file:
 <httpModules>
     <add name="MyHttpModule " type="MyHttpModule " />
 </httpModules>
```

edited Apr 25 '18 at 1:50



a-man

answered Jan 13 '17 at 14:53



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