

HTTP modules and HTTP handlers in ASP.Net MVC?

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



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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?

[asp.net](#)[asp.net-mvc](#)[httphandler](#)[httpmodule](#)[edited Nov 4 '16 at 14:10](#)[asked Nov 4 '16 at 13:57](#)[rohit singh](#)

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Filters are only invoked for requests handled by controllers. To be more general you would have to use `IHandler` 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



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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.

- If you want your functionality to only be executed once per `Http Request`, you should use an `HttpModule`.
- `ActionFilters` may be executed several times in a single trip 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 `jpg` 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 `IHttpHandler` class and implement `ProcessRequest` method and `IsReusable` property. `IsReusable` 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
{
    public void Init(HttpContext context)
```

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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

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answered Jan 13 '17 at 14:53



Ujain

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