**Asp.net MVC implementing custom action filters**

This article demonstrated to create a custom action filter to create an action log to a text file.

**What are the Filters**

Filters in ASP.NET MVC allow you to run code before or after a particular stage in the execution process. Filters can be configured globally, per-controller, or per-action.

**Filter Types**

There various types of filters that can be implemented to inject custom processing logic.

* Authorization filter - his filter provides authentication and authorization logic. It will be executed before the action gets executed.
* Action filter - This filter will be called before and after the action starts executing and after the action has executed.
* Result filter - This filter will execute before and after the result of the action method has been executed.
* Exception filter - This filter will be invoked whenever a controller or action of the controller throws an exception.

Action filter allow us to execute some custom code, either, just before an action method is executed or immediately after an action method completes execution. Below are some of the built-in action filters in ASP.net MVC:

* Authorize attribute
* HandleError attribute
* OutputCache attribute
* RequireHttps attribute
* ValidateInput attribute
* Add new class to do audit logs. This class will inherit from ActionFilterAttribute and IExceptionFilter.
* This class should override following methods of ActionFilterAttribute.
  + OnActionExecuted(ActionExecutedContext) - Called by the ASP.NET MVC framework after the action method executes.
  + OnActionExecuting(ActionExecutingContext) - Called by the ASP.NET MVC framework before the action method executes.
  + OnResultExecuted(ResultExecutedContext) - Called by the ASP.NET MVC framework after the action result executes.
  + OnResultExecuting(ResultExecutingContext) - Called by the ASP.NET MVC framework before the action result executes.
* In each of the overridden method we can we can access associated controller and action methods by following syntax something like below:

filterContext.ActionDescriptor.ControllerDescriptor.ControllerName

" -> " + filterContext.ActionDescriptor.ActionName

Please see attached sample project to check the usage of custom filters in asP.net MVC

ASP.Net MVC,MVC,Custom Actions

References

<https://msdn.microsoft.com/en-us/library/gg416513(v=vs.98).aspx>