

Organizing Application Flow with Action Filters



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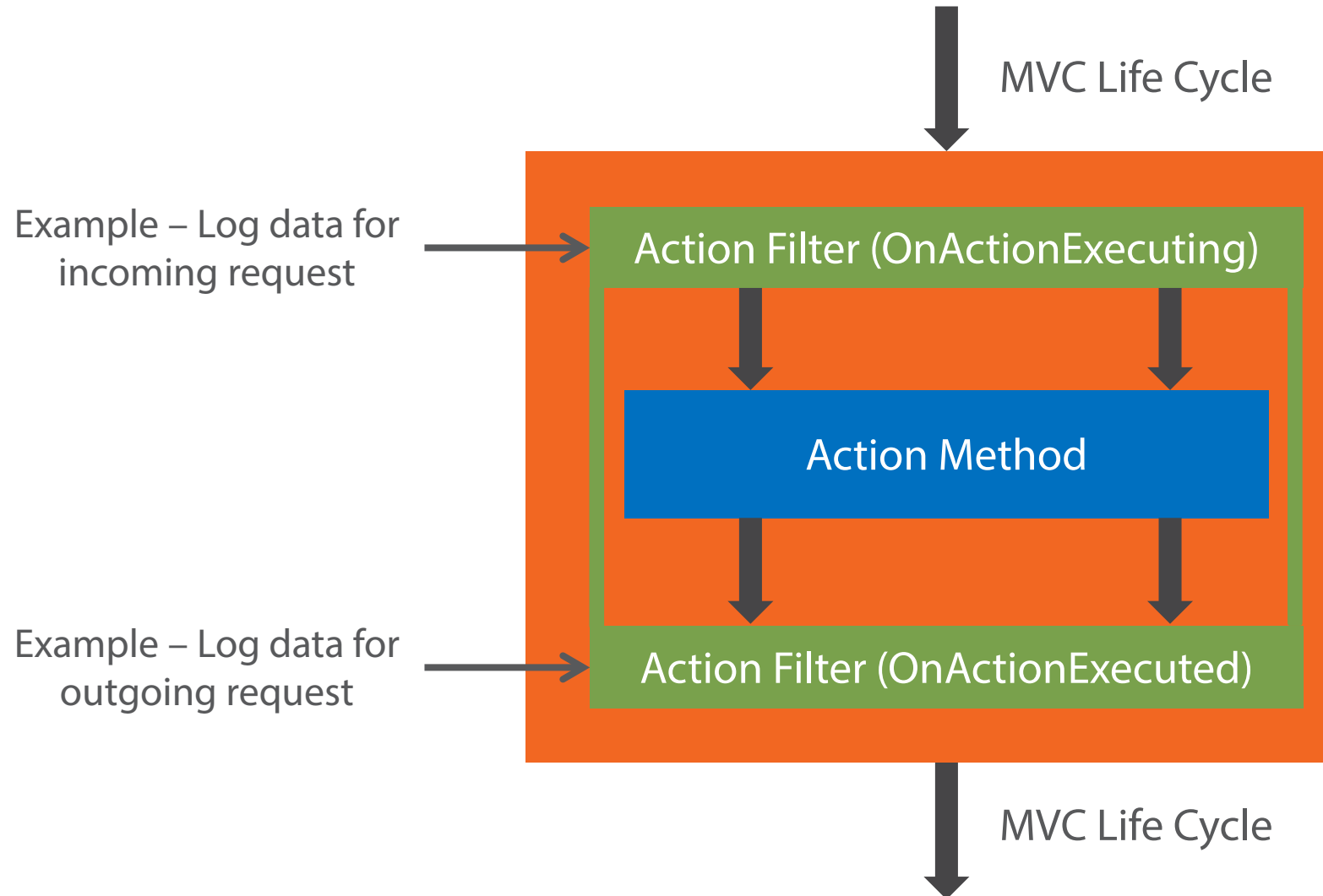
Understanding Action Filters

Action Filter Basics

```
public class SampleFilter : FilterAttribute, IActionFilter
{
    public void OnActionExecuted(ActionExecutedContext filterContext)
    {
    }

    public void OnActionExecuting(ActionExecutingContext filterContext)
    {
    }
}
```

Injecting Additional Logic



Controller **Action Filter** Methods

```
public class SampleController : Controller
{
    public ActionResult Index()
    {
        return View();
    }

    protected override void OnActionExecuting(ActionExecutingContext filterContext)
    {
        base.OnActionExecuting(filterContext);
    }

    protected override void OnActionExecuted(ActionExecutedContext filterContext)
    {
        base.OnActionExecuted(filterContext);
    }
}
```

Other Alternatives

```
public abstract class ActionFilterAttribute : FilterAttribute, IActionFilter, IResultFilter
{
    public virtual void OnActionExecuting(ActionExecutingContext filterContext)
    {
    }
    public virtual void OnActionExecuted(ActionExecutedContext filterContext)
    {
    }
    public virtual void OnResultExecuting(ResultExecutingContext filterContext)
    {
    }
    public virtual void OnResultExecuted(ResultExecutedContext filterContext)
    {
    }
}
```

Understanding Filter Context

```
public void OnActionExecuting(ActionExecutingContext filterContext)
{
}
}
```

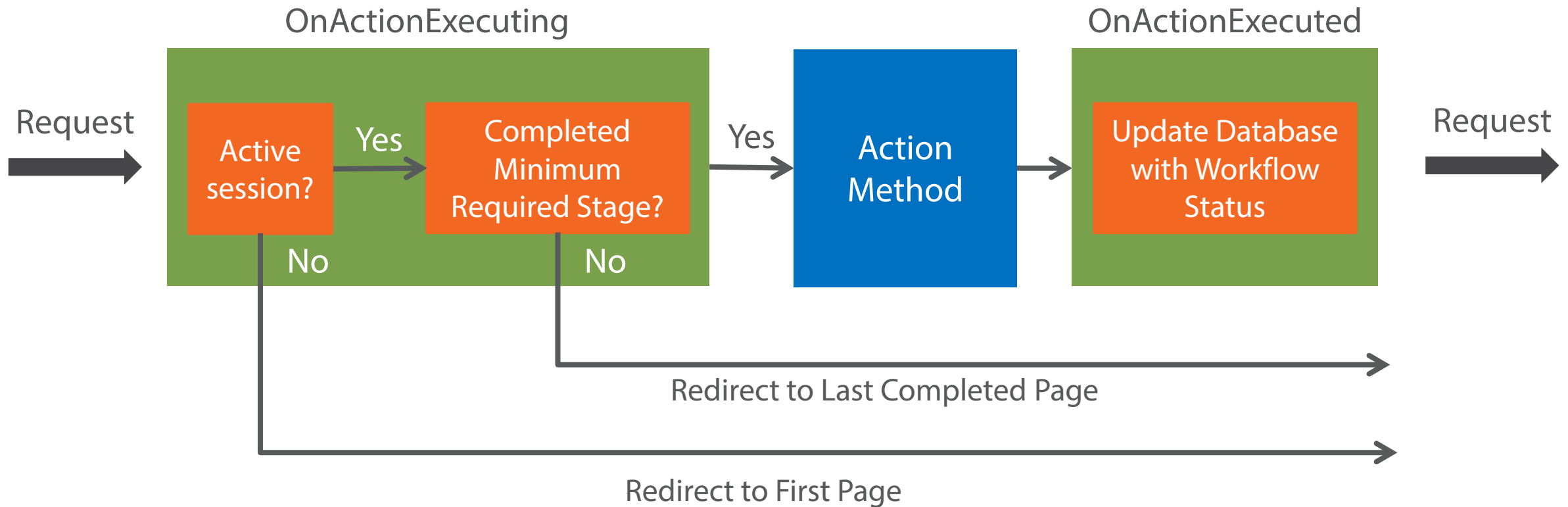


Gives Access To:

- ControllerContext
- Request Object
- ActionDescriptor
- ActionResult

(And More!)

Filtering the Request



Summary



- Action Filters can be used to inject logic into the MVC pipeline
- Implement the `IActionFilter` interface and execute right before and after Action Methods
- Expose a useful context object for working with requests
- Can be applied at method, controller, or global scope