

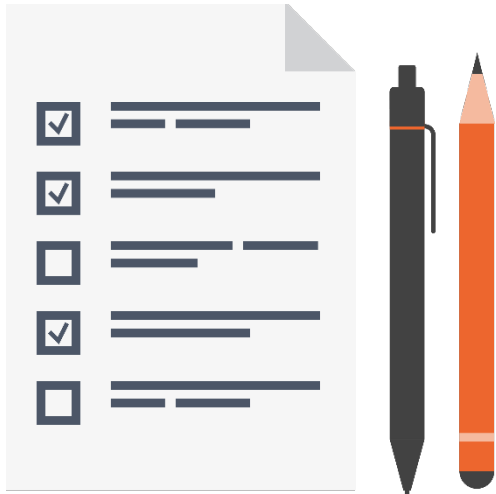
HttpModules and HttpHandlers



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Module Outline



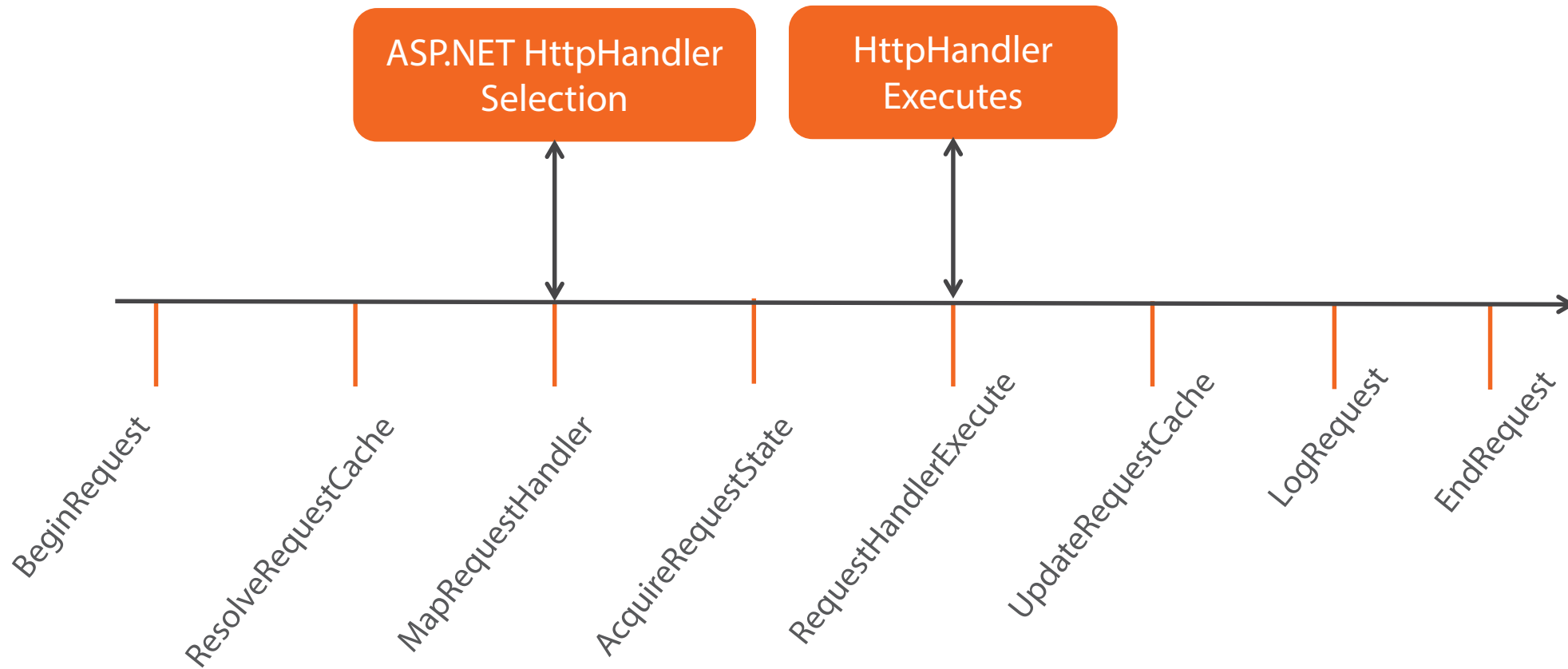
- Working with HttpHandlers
- Working with HttpModules
- Comparing HttpHandler and HttpModules
- Understanding the URLRoutingModule, MVCRouteHandler, and MVCHandler



HttpHandlers

Classes that implement IHttpHandler and generate a response to an HttpRequest

HttpHandlers and the Request Life Cycle



Creating an `HttpHandler`

- Create a class that implements the `IHttpHandler` interface
- Register the `HttpHandler` through code or config file
- `IHttpHandler` exposes two members:
 - `IsReusable`
 - `ProcessRequest()`

Building a Custom HTTPHandler

(Might be a rare occurrence)

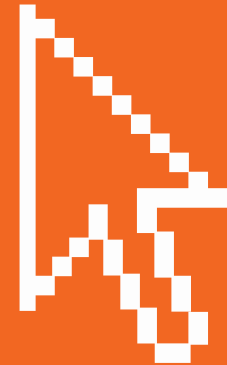
Common Uses

Customizing behavior of existing frameworks

Building your own framework

Demo

Building a Custom HTTPHandler

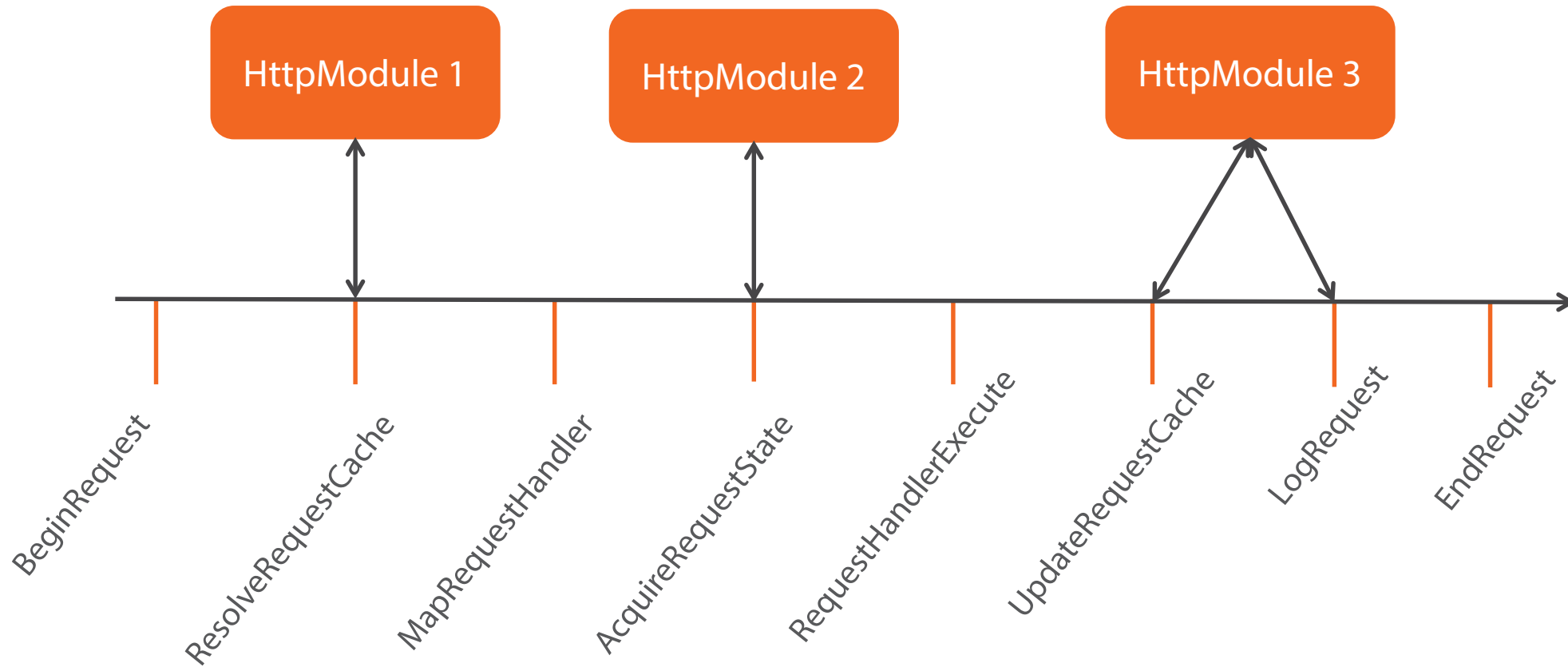




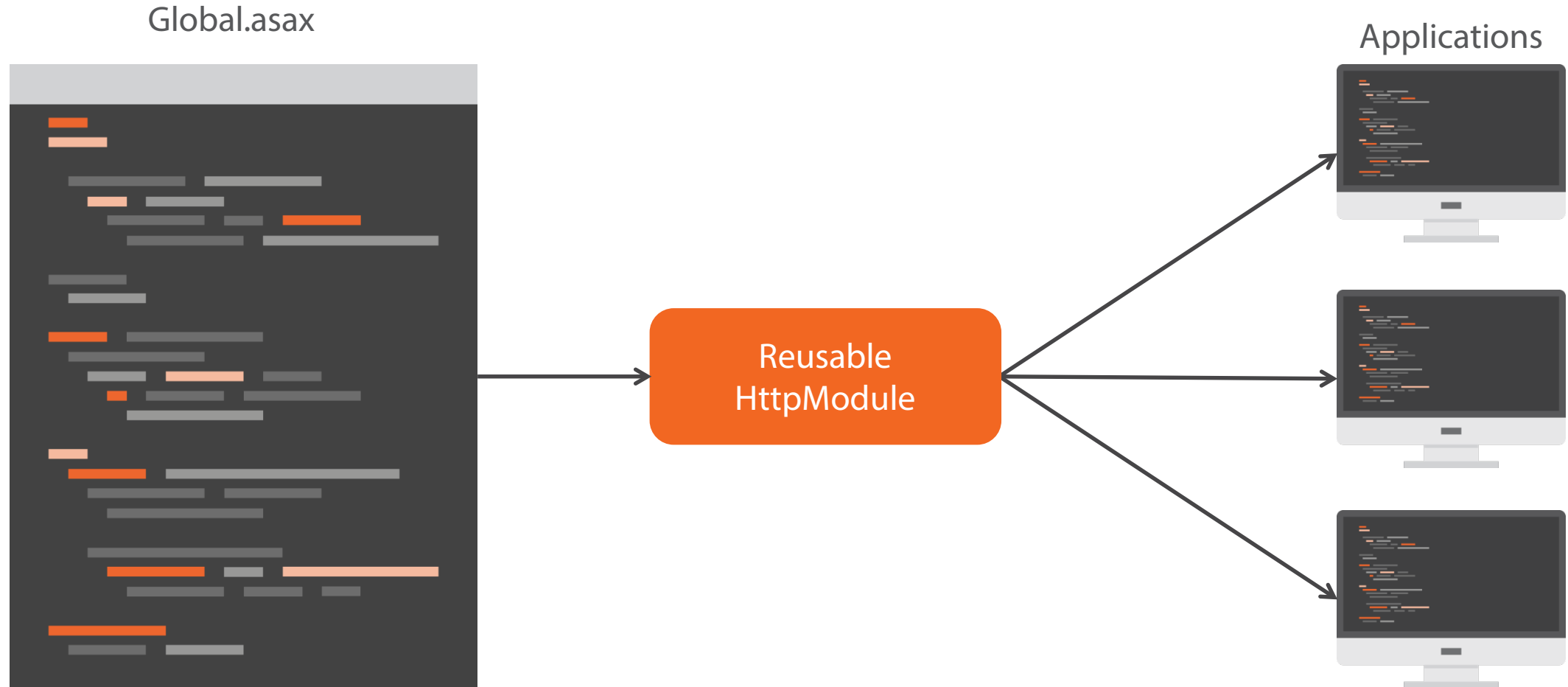
HttpModules

Classes that implement IHttpModule and are designed to respond to Life Cycle Events

HttpModules and the Request Life Cycle



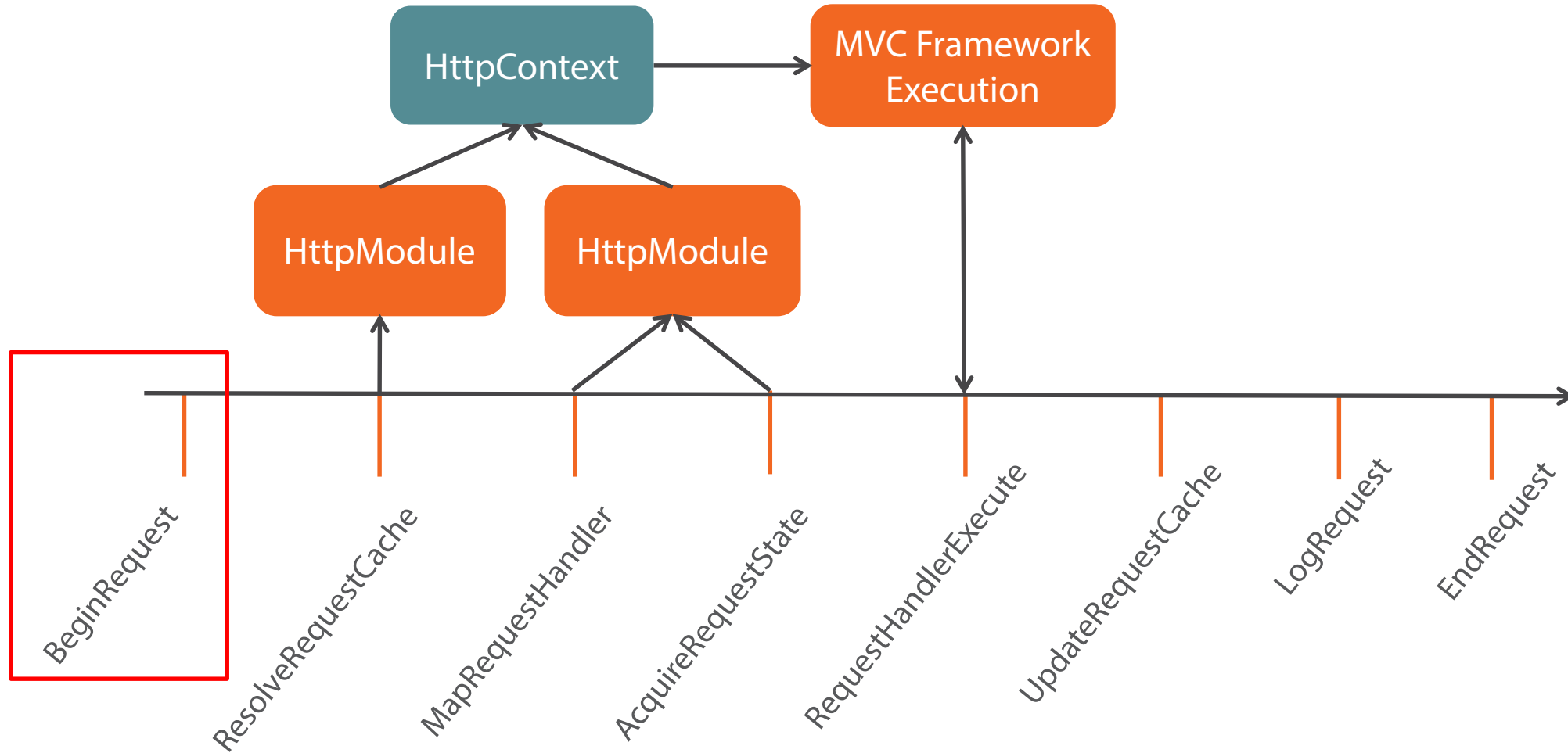
Advantages of HttpModule



Creating an HttpModule

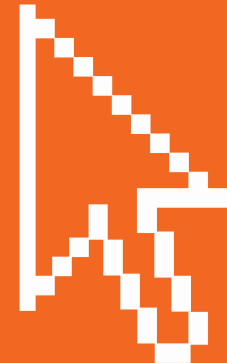
- Implement the IHttpModule interface
- Register the HttpModule through code or config file
- IHttpModule exposes two members:
 - Init()
 - Dispose()

HttpModules and HttpContext



Demo

Creating a Custom HTTPModule



Comparing **HttpModules** and **HttpHandlers**

Modules

Many HttpModules can service one request

Modify and support requests through services

Implemented through the IHttpModule interface

Registered through code or the webconfig file

Designed to integrate with any of the Life Cycle Events

Handlers

Only one HttpHandler can service a request

Generate the response that is sent back to the browser

Implemented through the IHttpHandler interface

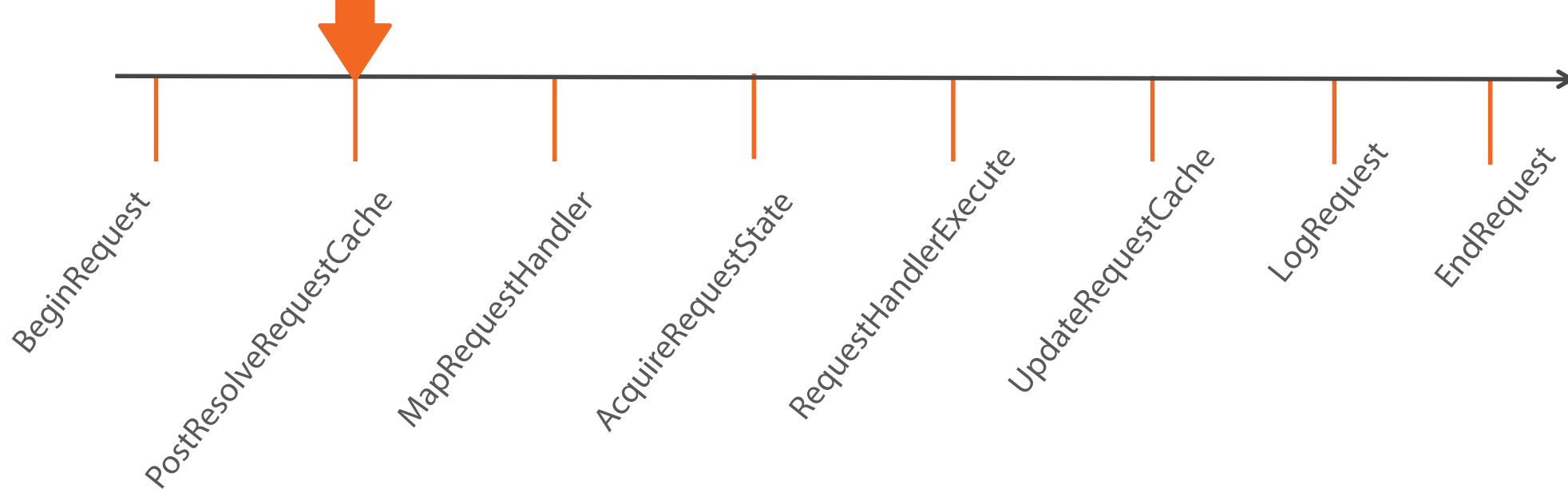
Registered through code or the webconfig file

Generally only concerned with the events related to handler mapping and execution

The MvcRouteHandler and MvcHandler

UrlRoutingModule

1. Match Url to Route defined in MVC app
2. Get the Route's MvcRouteHandler
3. Call GetHttpHandler on MvcRouteHandler
4. Call ProcessRequest on returned MvcHandler



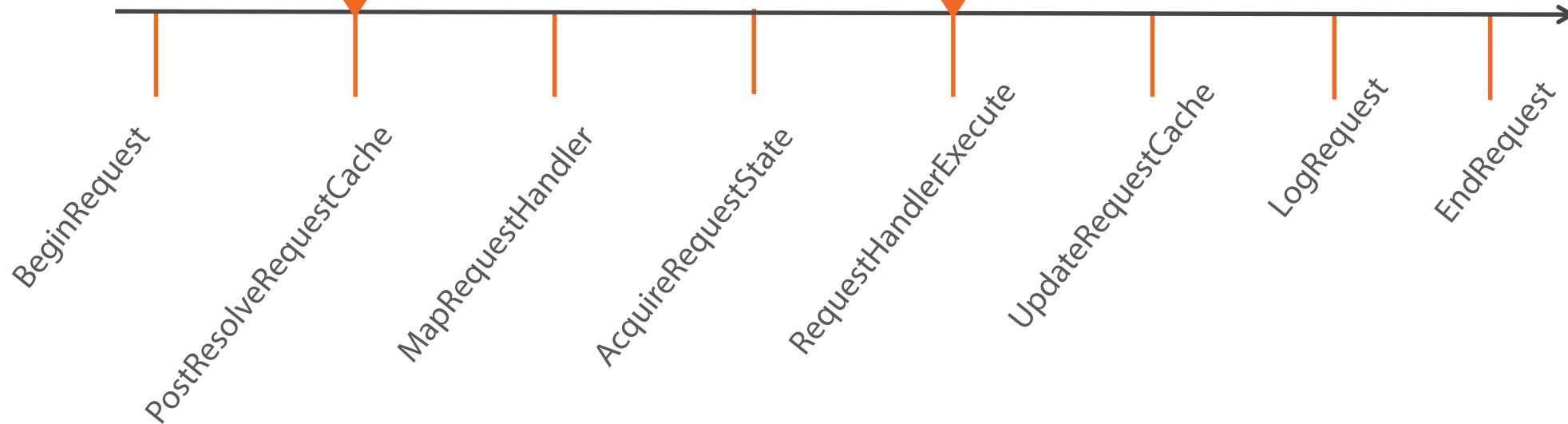
The MvcRoutehandler and MvcHandler



UrlRoutingModule

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MvcHandler Execution



Summary



- HttpHandlers generate a response for a request
- HttpModules respond to Life Cycle Events to provide services and manipulate the request
- Both are implemented through an interface
- MvcHandler is the MVC framework's implementation of IHttpHandler