

Adding Navigation



Gill Cleeren

ARCHITECT

@gillcleeren www.snowball.be



Overview



Routing fundamentals

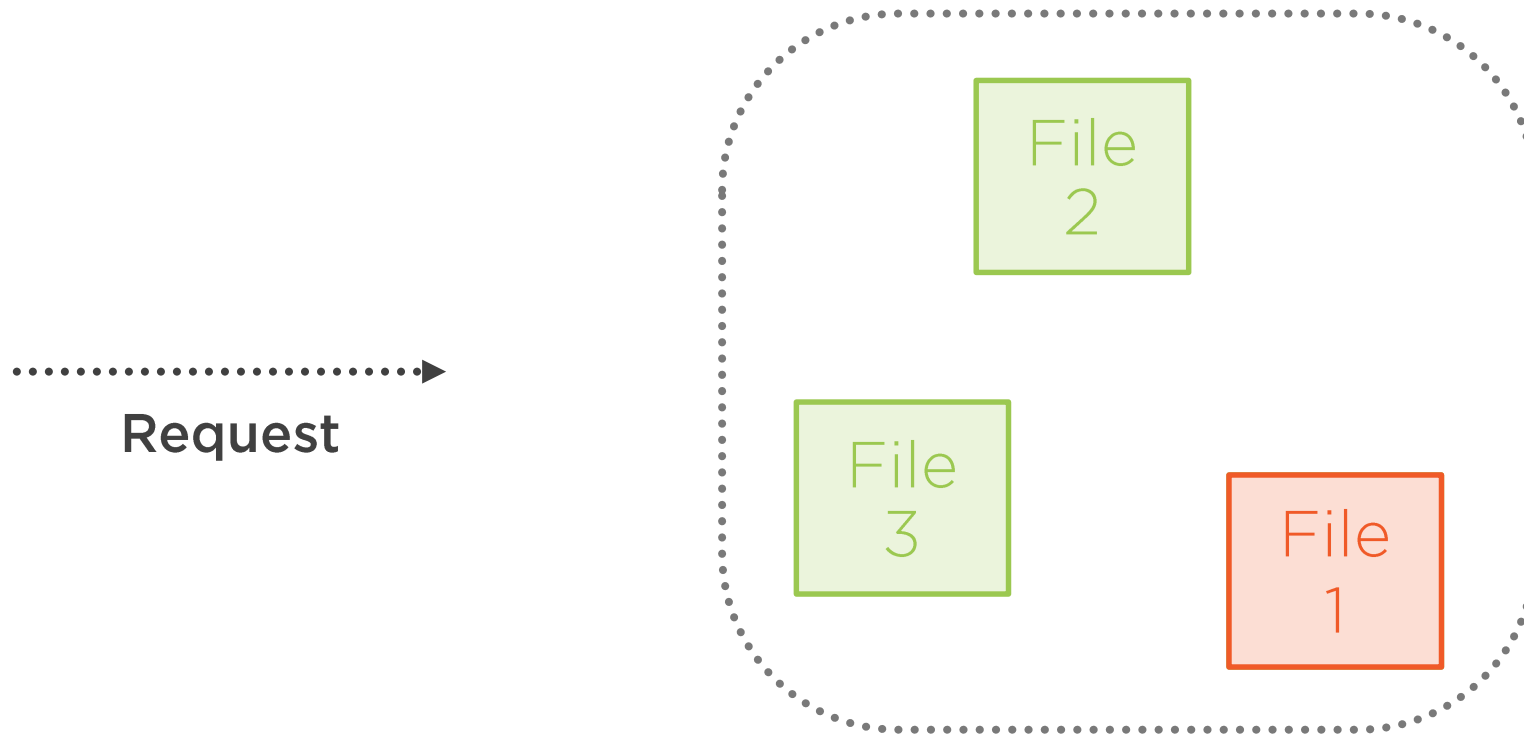
Adding navigation to our site



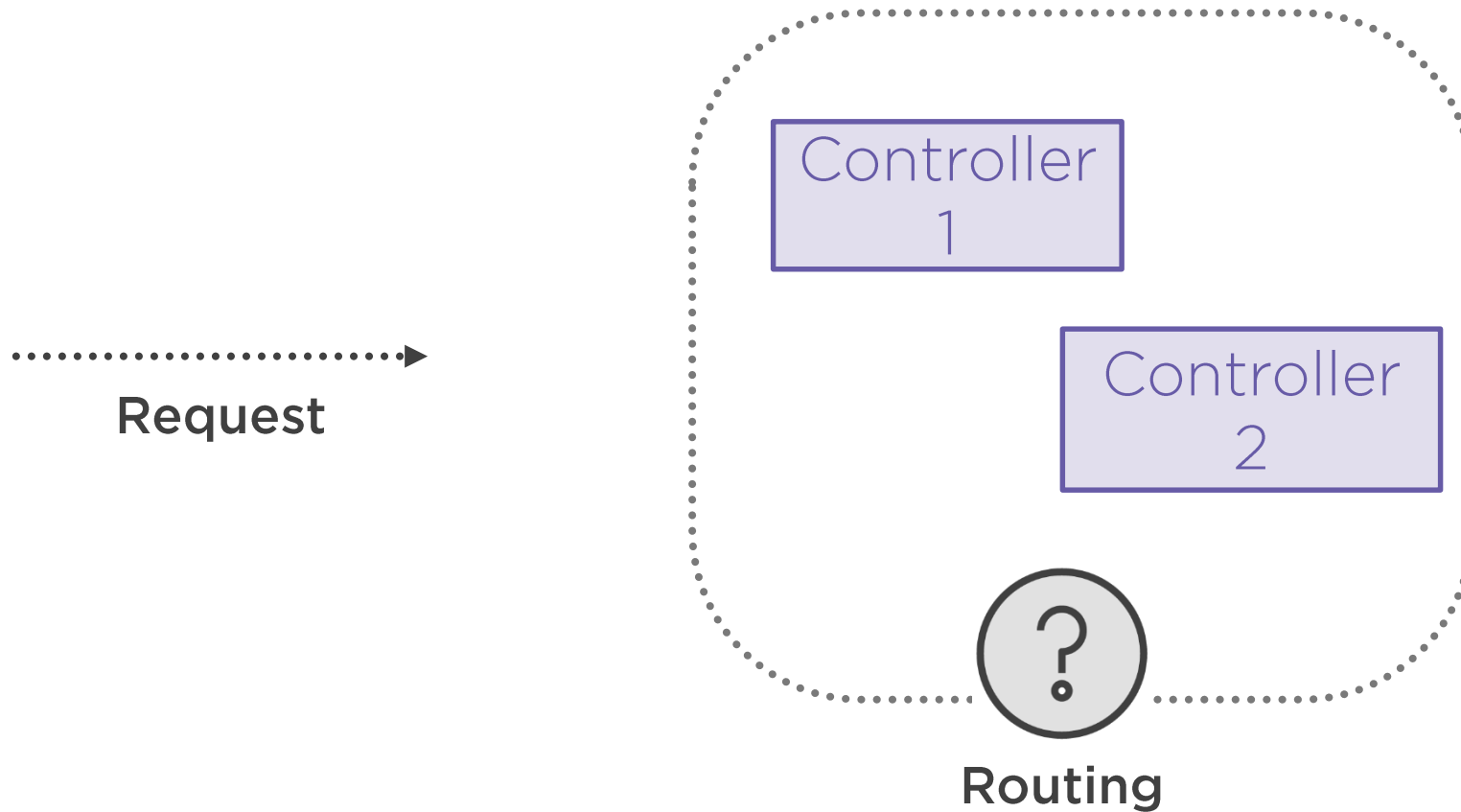
Routing Fundamentals



Navigation in ASP.NET WebForms



ASP.NET MVC



From Patterns to Routes

`http://www.bethanyspieshop.com/Home/Index`

Controller

Action

`{Controller}/{Action}`

<http://www.bethanyspieshop.com/Home> : no match

<http://www.bethanyspieshop.com/Home/index/pies> : no match



Routing

Incoming URLs

Outgoing URLs



```
public void Configure(IApplicationBuilder app,  
    IHostingEnvironment env, ILoggerFactory loggerFactory)  
{  
  
}
```

Configuring Routes




```
app.UseMvcWithDefaultRoute();
```

```
//{controller=Home}/{action=Index}/{id?}
```

Default Routes in Startup.cs



```
app.UseMvc(routes =>
{
    routes.MapRoute(
        name: "default",
        template: "{controller}/{action}");
});
```

Configuring Routes



```
app.UseMvc(routes =>
{
    routes.MapRoute(
        name: "default",
        template: "{controller}/{action}",
        defaults: new {controller="Home", action="Index"});
});
```

Using Defaults



```
app.UseMvc(routes =>
{
    routes.MapRoute(
        name: "default",
        template: "{controller=Home}/{action=Index}");
});
```

Using Defaults Inline



```
app.UseMvc(routes =>
{
    routes.MapRoute(
        name: "default",
        template: "{controller}/{action=Index}");
});
```

Using Defaults Inline



```
routes.MapRoute(  
    name: "default",  
    template:  
        "{controller=Home}/{action=Index}/{id="SomeDefault"}");
```

Passing Variable Values



```
public ViewResult Index(string id)  
{  
  
}
```

Passing Variable Values



```
routes.MapRoute(  
    name: "default",  
    template: "{controller=Home}/{action=Index}/{id?}");
```

Defining Optional Segments




```
routes.MapRoute(  
    name: "default",  
    template: "{controller=Home}/{action=Index}/{id:int?}");
```

Constraints in the Route



```
routes.MapRoute(  
    name: "categoryfilter",  
    template: "Shop/{action}/{category?}",  
    defaults: new { Controller = "Pie", action = "List" });
```

Static Segments



Attribute Routing

```
[Route("[controller]/Details/{id}")]  
public IActionResult Details(int id)  
{  
  
    var pie = _pieRepository.GetPieById(id);  
    if (pie == null)  
        return NotFound();  
    return View(pie);  
}
```



```
[Route("[controller]/All")]  
public ActionResult List()  
{  
    return View(_pieRepository.Pies);  
}
```

Changing the Action Name



Adding Navigation to Our Site



```
@Html.ActionLink  
    ("View Pie List", "List",  
     "Pie")
```

```
<a asp-controller="Pie"  
  asp-action="List">  
  View Pie List  
</a>
```

◀ HTML Helpers

◀ Tag Helpers



Demo



Add routes

Creating the menu navigation

Adding navigation



Summary



Routes are managed in Startup class

Navigation based on built-in tag helpers

