

Overview



Using Tag Helpers to create the Form
Adding validation

Using Tag Helpers to Create the Form

```
<email address="info@@bethanyspieshop.com"  
  content="Contact us"></email>
```



```
<a href="mailto:info@bethanyspieshop.com">Contact us</a>
```

Tag Helpers

- Server-side
- Trigger code
- Built-in or custom
- Replace HTML Helpers

Built-in Form Tag Helpers

Form tag helper

Input tag helper

Label tag helper

Textarea tag helper

Select tag helper

Validation tag helpers

```
<label asp-for="FirstName">  
</label>
```

```
<label for="FirstName">  
    FirstName  
</label>
```

```
<label for="FirstName">  
    First name  
</label>
```

```
<label for="FirstName"  
    class="SomeClass">  
    First name  
</label>
```

◀ **Label Tag Helper**

◀ **Resulting HTML**

◀ **Attributes on Model**

◀ **Other HTML attributes**

Tag Helpers

asp-controller

asp-action

asp-route-*

asp-route

asp-antiforgery

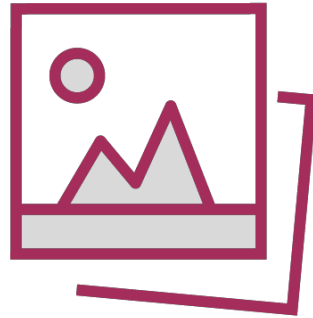
```
<form asp-action="Checkout" method="post"  
      asp-antiforgery="true" class="form-horizontal"  
      role="form">  
  
    ...  
</form>
```

Form Tag Helper

Tag Helpers Are Everywhere



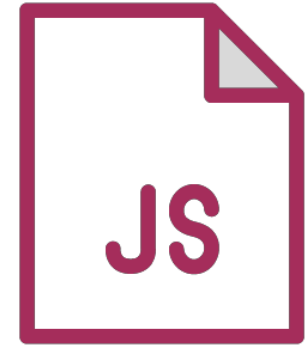
anchor



image



css

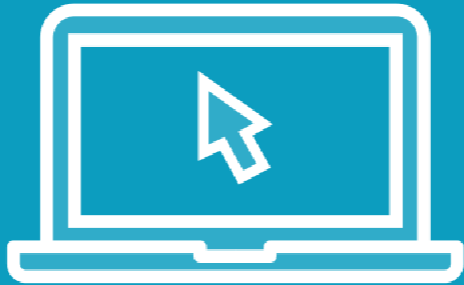


javascript


```
<link rel="stylesheet"  
      asp-href-include="lib/bootstrap/dist/css/*.min.css" />
```

Using the CSS Tag Helpers

Demo



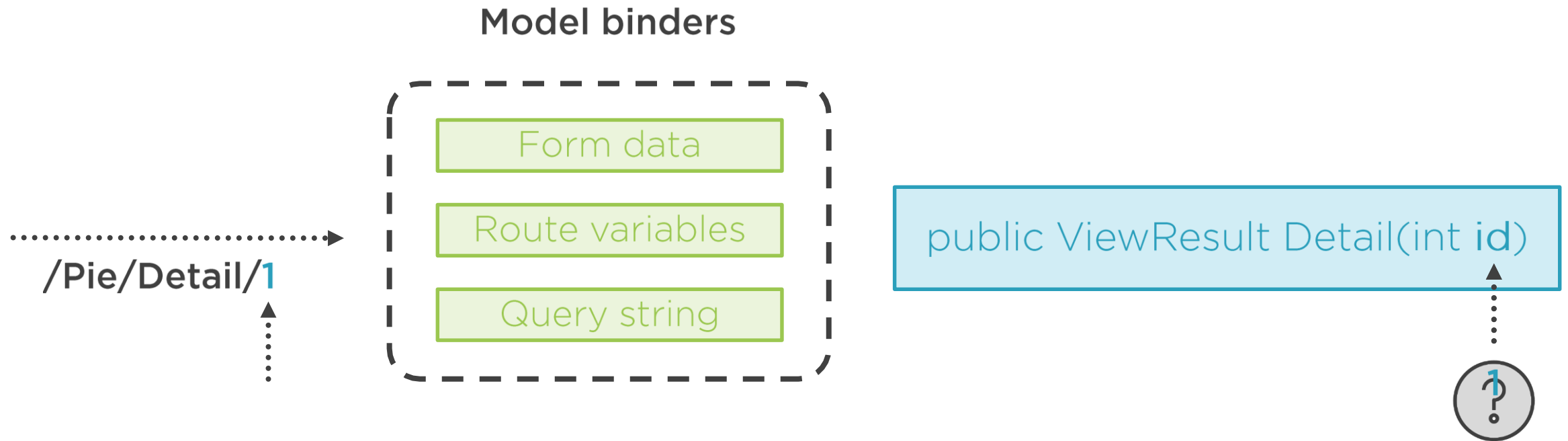
Adding support for the Order creation

Creating the Order form

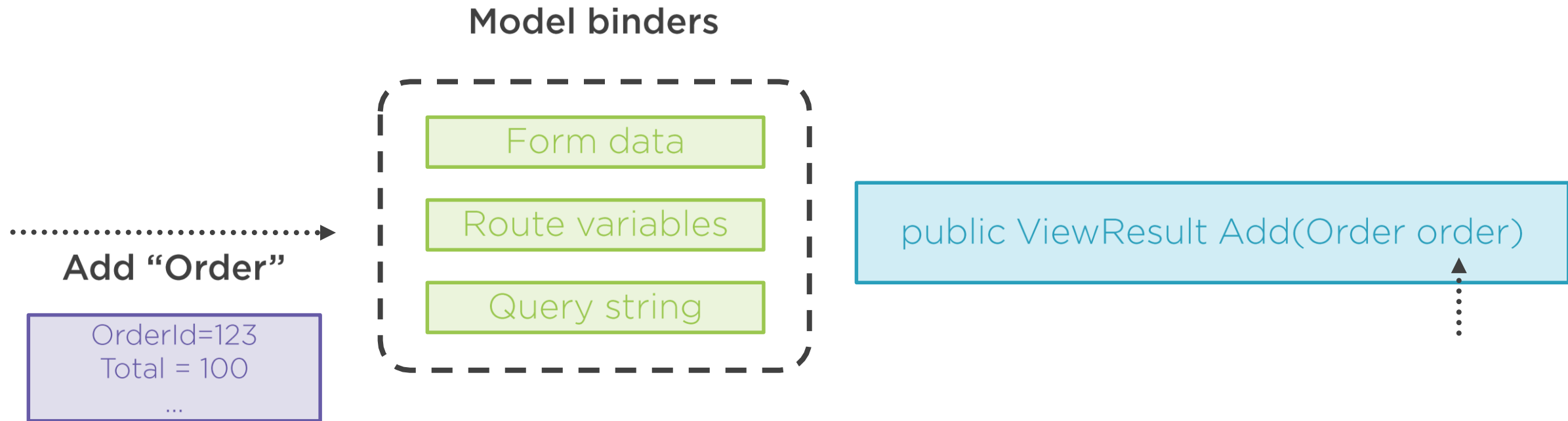
Navigating to the Order form

Adding Validation

Model Binding



Binding to Complex Types



The Need for Validation



Add "Order"

OrderId="ABC"
Total = "Hello world"
...



Validation

```
public ActionResult Add(Order order)
```



```
if (ModelState.IsValid)
{
    _orderRepository.CreateOrder(order);
    return RedirectToAction("CheckoutComplete");
}
else
{
    return View();
}
```

Model Validation

ModelState Properties

IsValid

GetValidationState

AddModelError

Validation

Attributes on the
model classes

Constraints,
required, regex
patterns...

Custom attributes

Validation Attributes

Required

StringLength

Range

RegularExpression

DataType

- Phone
- Email
- Url

Sample Model with Validation Attributes

```
public class Order
{
    [Required(ErrorMessage = "Please enter your first name")]
    [StringLength(50)]
    public string FirstName { get; set; }

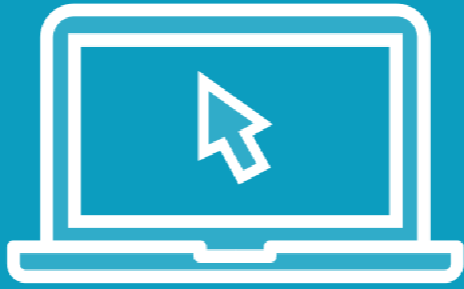
    [Required(ErrorMessage = "Please enter your phone number")]
    [StringLength(25)]
    [DataType(DataType.PhoneNumber)]
    public string PhoneNumber { get; set; }
}
```



```
<form asp-action="Checkout" method="post">  
    <div asp-validation-summary="All" class="text-danger">  
    </div>  
</form>
```

Validation Summary

Demo



Model validation

Displaying error messages

Summary



Tag helpers are very useful for the creation of a form and its fields

Validation can be done using attributes on the model classes