Creating an Order Form



Gill Cleeren
CTO XPIRIT BELGIUM

@gillcleeren www.snowball.be



Overview



Using Tag Helpers to create the Form
Understanding Model Binding
Adding validation



Using Tag Helpers to Create the Form



Built-in Form Tag Helpers

Form tag helper
Input tag helper
Label tag helper
Textarea tag helper
Select tag helper
Validation tag helpers



```
<a href="label-asp-for="FirstName">
</label>
<label for="FirstName">
 FirstName
</label>
<label for="FirstName">
 First name
</label>
<label for="FirstName"</pre>
 class="SomeClass">
 First name
</label>
```

■ Label Tag Helper

■ Resulting HTML

Attributes on Model

◆ Other HTML attributes



Form Tag Helpers

asp-controller

asp-action

asp-route-*

asp-route

asp-antiforgery



```
<form asp-action="Checkout" method="post"
  role="form">
  ...
</form>
```

Form Tag Helper



Demo



Adding support for the Order creation

Creating the Order form

Navigating to the Order form



Understanding Model Binding



Model Binding

Data from request

Passed to controller actions

Various sources

Complex types



Model Binding

Form data Route variables Pie/Detail/1 Query string Public ViewResult Detail(int id) Query string



Binding to Complex Types

Model binders

Form data

Route variables

Query string

public ViewResult Add(Order order)



Orderld=123 Total = 100

Add "Order"

...

Demo



Model Binding



Adding Validation



The Need for Validation



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





public ViewResult Add(Order order)



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

Model Validation



ModelState Properties

GetValidationState AddModelError IsValid



Validation

Attributes on the model classes

Constraints, required, regex patterns...

Custom attributes



Validation Attributes

Required

StringLength

Range

RegularExpression

DataType

- Phone
- Email
- Url



Adding Validation Attributes

```
public class Order
{
    [Required(ErrorMessage = "Enter your first name")]
    [StringLength(50)]
    public string FirstName { 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





Up next:Securing the application

