

## 1. import tag helper

```
@*@addTagHelper [namespace], [assembly]*@  
@addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
```

## 2. Use Tag Helpers

### link

```
<a asp-controller="home" asp-action="details" asp-route-id="@employee.Id" class="btn btn-  
primary">View</a>
```

### Image tag helper

```

```

Based on the content of the image, a unique hash value is calculated and is appended to image URL. This unique string prompts the browser to reload the image from the server and not from the browser cache.

Each time the image on the server changes a new hash value is calculated and cached. If the image has not changed the hash isn't recalculated. Using this unique hash value, the browser keeps track of whether the image content on the server has changed.

### Input Tag Helper

```
<input asp-for="<Expression Name>">
```

Generates the id and name HTML attributes for the expression name specified in the asp-for attribute.

Sets the HTML type attribute value based on the model type and [data annotation](#) attributes applied to the model property

Won't overwrite the HTML type attribute value when one is specified

Generates [HTML5](#) validation attributes from [data annotation](#) attributes applied to model properties

Provides strong typing. If the name of the property changes and you don't update the Tag Helper you'll get an error similar to the following:

### Label Tag Helper

```
<label for="Email">Email Address</label>
```

You automatically get the descriptive label value from the Display attribute.

### form Tag Helper

```
<form asp-controller="Demo" asp-action="Register" method="post">  
</form>
```

The Form Tag Helper also generates a hidden [Request Verification Token](#) to prevent cross-site request forgery it must apply attribute [ValidateAntiForgeryToken] to use it to not include write `asp-antiforgery="false"`

## Select Tag Helper

### Single Select

```
public string Country { get; set; }
public List<SelectListItem> Countries { get; } = new List<SelectListItem>
{
    new SelectListItem { Value = "MX", Text = "Mexico" },
    new SelectListItem { Value = "CA", Text = "Canada" },
    new SelectListItem { Value = "US", Text = "USA" },
};
```

```
<select asp-for="Country" asp-items="Model.Countries">
<option value="">Pick one</option>
</select>
```

The Select Tag Helper only works with SelectListItem element

the asp-for attribute specifies the property in your view model to bind to

The asp-items attribute is provided the IEnumerable to display the available <option> .

```
<select id="Country" name="Country">
    <option value="MX">Mexico</option>
    <option value="CA">Canada</option>
    <option value="US">USA</option>
</select>
```

### multiple select

```
public IEnumerable<string> CountryCodes { get; set; }
```

The Select Tag Helper will automatically generate the [multiple = "multiple"](#) attribute if the property specified in the asp-for attribute is an IEnumerable

### Enum binding

```
public class CountryEnumViewModel
{
    public CountryEnum EnumCountry { get; set; }
}
```

```
public enum CountryEnum
{
    [Display(Name = "United Mexican States")]
    Mexico,
    [Display(Name = "United States of America")]
    USA,
    Canada,
    France,
    Germany,
```

```
    Spain
}
```

```
<select asp-for="EnumCountry"
asp-items="Html.GetEnumSelectList<CountryEnum>()">
</select>
```

## Environment Tag Helper

```
<environment include="Development,Staging">

</environment>

<environment exclude="Production">

</environment>
```

## Validation Message Tag Helper

`<span asp-validation-for="Email"></span>` if there are any validation errors with this property  
Display them here

```
<div asp-validation-summary="ModelOnly"></div>
ValidationSummary.All Property and model level
ValidationSummary.ModelOnly Model
ValidationSummary.None None
```

## Form

```
<div class="container">
    <h1>Login</h1>
    <form asp-controller="Account" asp-action="Login" method="post">
        <div asp-validation-summary="All" class="text-danger"></div>

        <div class="form-group">
            <label asp-for="Email"></label>
            <input asp-for="Email" class="form-control" />
            <span asp-validation-for="Email" class="text-danger"></span>
        </div>
        <div class="form-group">
            <label asp-for="Password"></label>
            <input asp-for="Password" class="form-control" />
            <span asp-validation-for="Password" class="text-danger"></span>
        </div>
        <div class="form-group">
```

```
        <label asp-for="ConfirmPassword"></label>
        <input asp-for="ConfirmPassword" class="form-control" />
        <span asp-validation-for="ConfirmPassword" class="text-danger"></span>
    </div>

    <button type="submit" class="btn btn-primary">Login</button>
</form>
</div>
```