Asp.Net Core – True Ultimate Guide

Section 17 – Tag Helpers – Cheat Sheet

Tag Helpers

Tag helpers are the classes that can be invoked as an html tag or html attribute.

They generate a html tag or adds values into attributes of existing html tags.

<input asp-for="ModelProperty">

<input type="text" name="ModelProperty" id="ModelProperty" value="ModelValue" />

Tag Helpers for <a>, <form>

- asp-controller

- asp-action

- asp-route-x

- asp-route

- asp-area

Tag Helpers for <input>, <textarea>, <label>

- asp-for

Tag Helpers for <select>

- asp-for

- asp-items

Binding

The form tags such as <input>, <label>, <textarea>, <select> can be bound with specific model properties.

It applies model property name to "name" and "id" attributes of <input> tag.

Url Generation

Route URLs' will be re-generated for <a> and <form> tags;

It generates the url as "controller/action" pattern.

Tag Helpers for <img>

- asp-append-version

Tag Helpers for <span>

- asp-validation-for

Tag Helpers for <script>

- asp-fallback-src
- asp-fallback-test

Tag Helpers for <div>

- asp-validation-summary

Tag Helpers for <form>

<form asp-controller="ControllerName" asp-action="ActionName">

</form>

will be converted as:

<form action="~/ControllerName/ActionName">

</form>

asp-controller and asp-action

Generates route url for the specified action method with "controller/action" route pattern.

Tag Helpers for <a>

<a asp-controller="ControllerName" asp-action="ActionName">

will be converted as:

asp-controller and asp-action

Generates route url for the specified action method with "controller/action" route pattern.

Tag Helpers for <a> and <form>

<a asp-controller="ControllerName" asp-action="ActionName" asp-route-parameter="value" >

will be converted as:

asp-route-x

Specifies value for a route parameter, which can be a part of the route url.

Tag Helpers for <input>, <textarea>, <select>

<input asp-for="ModelProperty" />

will be converted as:

<input type="text" name="ModelProperty" id="ModelProperty" value="ModelValue" data-val-rule="ErrorMessage" />

asp-for

Generates "type", "name", "id", "data-validation" attributes for the <input>, <textarea>, <select> tags.

Tag Helpers for <label>

<label asp-for="ModelProperty"> </label>

will be converted as:

<label for="ModelProperty"> </label>

asp-for

Generates "for" attribute for the <label>.

Client Side Validations

Data annotations on model properties

[Required]

publicDataTypePropertyName { get; set; }

"data-*" attributes in html tags [auto-generated with "asp-for" helper]

<input data-val="true" data-required="ErrorMessage" />

Import jQuery Validation Scripts

https://cdnjs.cloudflare.com/ajax/libs/ jquery/3.6.0/jquery.min.js

https://cdnjs.cloudflare.com/ajax/libs/ jquery-validate/1.19.3/jquery.validate.min.js

https://cdnjs.cloudflare.com/ajax/libs/ jquery-validation-unobtrusive/3.2.12/ jquery.validate.unobtrusive.min.js

Tag Helpers for <img>

asp-append-version

- Generates SHA512 hash of the image file as query string parameter appended to the file path.

- It REGENERATES a new hash every time when the file is changed on the server. If the same file is requested multiple times, file hash will NOT be regenerated.

Tag Helpers for <script>

```
<script src="CDNUrl" asp-fallback-src="~/LocalUrl" asp-fallback-test="object"> </script>
```

```
<script src="CDNUrl"> </script>
```

```
<script> object || document.write("<script src='/LocalUrl'></script>"); </script>
```

asp-fallback-src

- It makes a request to the specified CDNUrl at the "src" attribute.

- It checks the value of the specified object at the "asp-fallback-test" tag helper.

- If its value is null or undefined (means, the script file at CDNUrl is not loaded), then it makes another request to the LocalUrl through another script tag.