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ASP.NET Core

**Day 4**

**ASP.NET Core MVC –  
Tag Helpers**

# Session Overview

- Understanding HTML Helpers
- Types of HTML Helpers
- Built-In HTML Helpers
- Tag Helpers

# HTML Helpers

- The HTMLHelper class renders HTML Controls in the Razor View
- It binds the model object to HTML controls to display the value of model properties into those controls.
- Also assigns the value of the controls to the model properties while submitting a web form.
- So always use the HtmlHelper class in razor view instead of writing HTML tags manually.

# HTML Helpers

```
@model IEnumerable<MVC_BasicTutorials.Models.Student>

@{
    ViewBag.Title = "Index";
    Layout = "~/Views/Shared/_Layout.cshtml";
}

<h2>Index</h2>

<p>
    @Html.ActionLink("Create New", "Create")
</p>
<table class="table">
    <tr>
        <th>
            @Html.DisplayNameFor(model => model.StudentName)
        </th>
        <th>
            @Html.DisplayNameFor(model => model.Age)
        </th>
        <th></th>
    </tr>
```

Diagram illustrating the use of HTML Helpers in a Razor view. The code snippet shows the @Html namespace being used to call ActionLink and DisplayNameFor methods. Annotations indicate that @Html is an object of the HtmlHelper class and that the methods are extension methods for HtmlHelper.

- @Html is an object of the HtmlHelper class.
- @ symbol is used to access server-side object in razor syntax.
- Html is a property of the HtmlHelper class included in base class of razor view WebViewPage.
- The ActionLink() and DisplayNameFor() are extension methods included in the HtmlHelper class.

# HTML Helpers

Extension method	Strongly Type Method	Html Control
Html.ActionLink()		<a> </a>
Html.TextBox()	Html.TextBoxFor()	<input type="text">
Html.CheckBox()	Html.CheckBoxFor()	<input type="checkbox">
Html.RadioButton()	Html.RadioButtonFor()	<input type="radio">
Html.DropDownList()	Html.DropDownListFor() ( )	<select> <option> </select>
Html.Hidden()	Html.HiddenFor()	<input type="hidden">
Html.Password()	Html.PasswordFor()	<input type="password">
Html.Display()	Html.DisplayFor()	HTML text: ""
Html.Label()	Html.LabelFor()	<label>

# Tag Helpers

- Tag Helpers enable server-side code to participate in creating and rendering HTML elements in Razor files.
- Tag helpers are a new feature and similar to HTML helpers, which help us render HTML.
- There are many built-in Tag Helpers for common tasks, such as creating forms, links, loading assets etc.
- Tag Helpers are authored in C#, and they target HTML elements based on the element name, the attribute name, or the parent tag.

# Install Packages for Tag Helpers

- In order to use Tag Helpers, we need to install a NuGet library
- Also add an addTagHelper directive to the view or views that use these tag helpers.
- **Microsoft.AspNet.Mvc.TagHelpers**

# Activate Tag Helpers

- The directive to do that is `addTagHelper`, and you can place this into an individual view,
  - If you plan on using tag helpers throughout the application, you can use `addTagHelper` inside the `ViewImports` file as shown below.
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- **`@using FirstAppDemo.Controllers`**
  - **`@addTagHelper "*", Microsoft.AspNet.Mvc.TagHelpers"`**