



Html Helper



Lesson Objectives





- HTML Helpers
- Build-in Helpers
- Create custom helper
- Helper extension
- Templated Helpers





HTML HELPERS





- With MVC, we can create view by using HTML code only
 - ✓ <input type="text" name="ProductName" id="ProductName" />
- It becomes complex, difficult to read, understand and update
 - ✓ Long code
 - ✓ Take long time to develop
 - ✓ Not strongly typed





<input type="text" name="ProductName" id=" ProductName" />

is replaced by:

@Html.TextBox("ProductName")





- An HTML helper in MVC is an extension method of the HTML Helper class which is used to generate HTML content in a view.
- HtmlHelper method is designed to make it easy to bind to view data or model data.
- MVC use extension methods to create methods in HtmlHelper class





- There are several overloaded versions available for each method in HTML helper
- It provides basic properties for common case
 - ✓ @Html.TextBox("ProductName")
 - ✓ @Html.TextBox("ProductName", "Apple Macbook")
 - ✓ @Html.TextBox("ProductName", "Apple Macbook", new { title = "Please enter product name" })





- It is also possible to set the HTML attributes
 - ✓ passing the HTML attributes as an anonymous type
 - ✓ Some of the HTML attributes are reserved keywords, we use @ symbol for them
 - ✓ @Html.TextBox("ProductName", "Apple Macbook", new { title =
 "Please enter product name", @class = "new-product", @readonly
 ="true" })





BUILD-IN HELPERS

TextBox





- Used to generate HTML input, type is text (usually called textbox)
- There are 7 overloads in MVC

```
public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name, object value, string format, IDictionary<string, object> htmlAttr public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name, object value, IDictionary<string, object> htmlAttributes); public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name, object value, string format, object htmlAttributes); public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name, object value); public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name, object value, string format); public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name); public static MvcHtmlString TextBox(this HtmlHelper htmlHelper, string name, object value, object htmlAttributes);
```

TextBox





Parameters:

- ✓ name: The name of the form field and the System.Web.Mvc.ViewDataDictionary key that is used to look up the value
- ✓ value: The value of the text input element.
- ✓ format: A string that is used to format the input
- ✓ htmlAttributes: An object that contains the HTML attributes to set for the element.

TextBoxFor





- Used to generate a text input element for the model property specified using a lambda expression.
- Binds a specified model object property to input text.
- It automatically displays a value of the model property in a textbox in both directions.

TextBoxFor





Example:

✓ @Html.TextBoxFor(model => model.ProductName, new { @class = "new-product" })

Parameters:

✓ expression: An expression that identifies the object that contains the properties to display.

TextBox vs. TextBoxFor





TextBox

- @Html.TextBox() is loosely typed method
- TextBox() requires property name as string parameter
- TextBox doesn't give you compile time error if you have specified wrong property name.
 It will throw run time exception.

TextBoxFor

- @Html.TextBoxFor() is a strongly typed (generic) extension method
- TextBoxFor() requires lambda expression as a parameter.
- TextBoxFor is generic method so it will give you compile time error if you have specified wrong property name or property name changes.

TextArea





- Used to generate HTML textarea with rows and cols attributes
- Example:
 - ✓ @Html.TextArea("Description", "This is newest Apple Macbook Pro 2019", 6, 10, new { @class = "new-product" })

TextArea





Parameters:

- ✓ name:
- ✓ value
- ✓ rows: The number of rows.
- ✓ columns: The number of columns.
- √ htmlAttribute

The rule:





- Each method should have a pair, 1 is loosely typed, 1 is strongly typed
- Strongly typed method is end with For

CheckBox- CheckBoxFor





- Used to generate input tag with type is checkbox
- Parameter isChecked to set the checkbox is checked by default or not

RadioButton-RadioButtonFor





- Used to generate input tag with type is radio.
- Radios are always come in group.
- All radios with same name are considered as one group
- Parameter isChecked to set the checkbox is checked by default or not

DropDownList-DropDownListFor





- Used to generate <select> tag.
- DropDownList requires a IEnumerable<SelectListItem>





DropDownList vs RadioButton group

- ✓ What are differences between them?
- ✓ When do we use either DropDownList orRadioButton group?

Editor - EditorFor





 Generate HTML elements based on the data type of the model object's property

Property DataType	Html Element
string	<input type="text"/>
int	<input type="number"/>
decimal, float	<input type="text"/>
boolean	<input type="checkbox"/>
Enum	<input type="text"/>
DateTime	<input type="datetime"/>

Others





- Hidden
- Password
- Display
- Label
- ValidationMessage





CREATE CUSTOM HELPER





HELPER EXTENSION





TEMPLATED HELPERS

Lesson Summary









Thank you