

QUEZON CITY UNIVERSITY

COLLEGE OF COMPUTER STUDIES



WEEK 6

DEVELOPING VIEWS

– HTML Helpers

IPT102 – INTEGRATIVE PROGRAMMING AND TECHNOLOGIES 2
1ST SEMESTER

LEARNING OUTCOMES:

- To understand standard HTML Helpers in ASP .NET
- To identify different HTML Helpers Controls
- To learn the advantages of using Standard HTML helpers in ASP.NET

MVC

Using HTML Helpers and Tag Helpers

Standard HTML Helpers are used to render the most common type of HTML controls like Label, Textbox, Password, Text Area, Checkbox, RadioButton, Dropdown List, Listbox, Display Editor and ActionLink etc.

Html helpers are always starting with @HTML and It is an object of Html helper class. @ symbol is used to access the server-side code.

Html is a property of type HtmlHelper included in base class of razor view WebViewPage (System.Web.MVC) in controller.

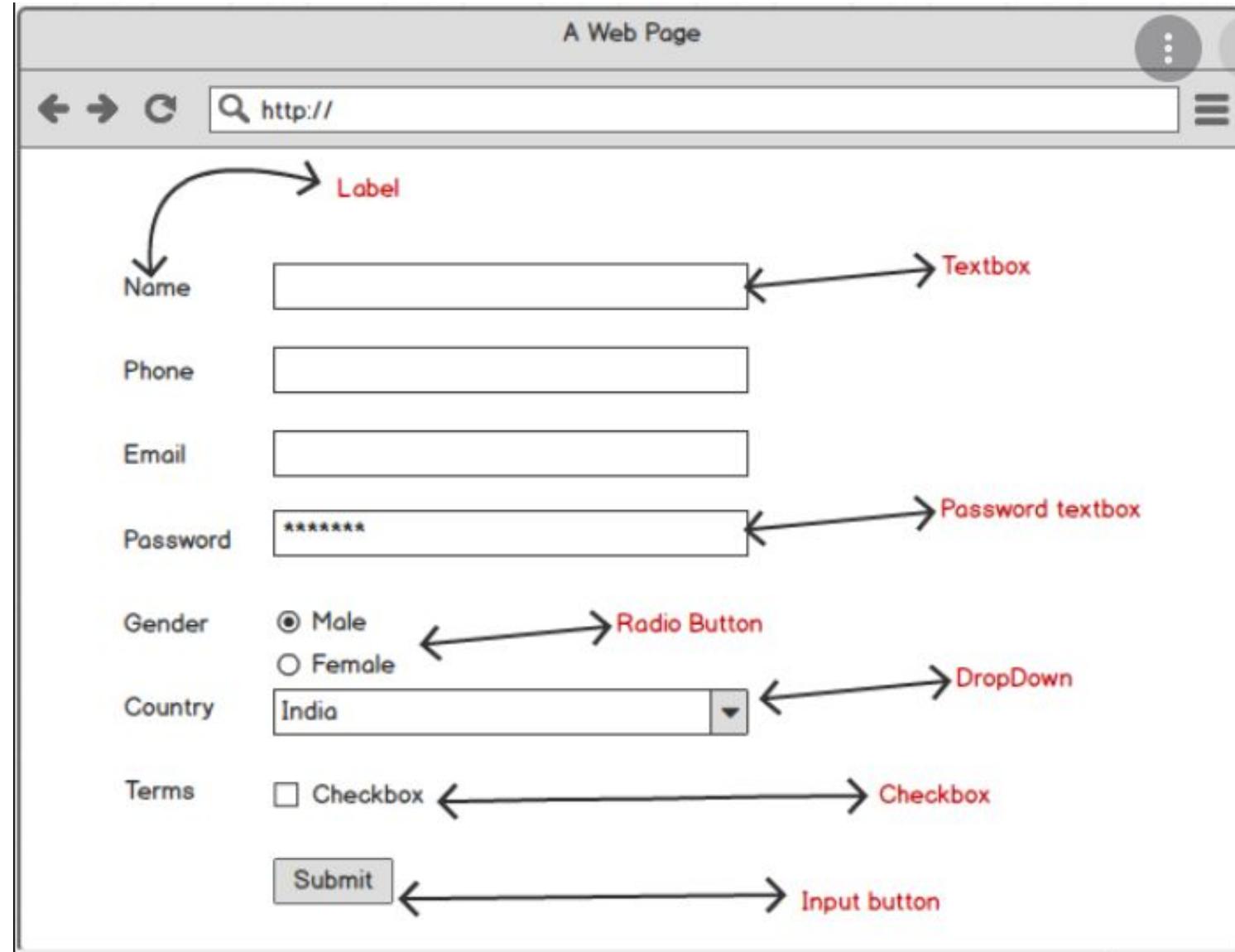
Using HTML Helpers and Tag Helpers

An HTML Helper in ASP.NET MVC is an extension method of the HTML Helper class which is used to generate HTML content in a view. For example, if you want to generate a textbox with id="firstname" and name="firstname" then you can type all the required HTML in a view as shown below:

```
<input type="text" name="firstname" id="firstname" />
```

But in ASP.NET MVC, you can use the following “TextBox” HTML helper method in a view to generating a text box.

```
@Html.TextBox("firstname");
```



The following table lists the **HtmlHelper** methods and **HTML control each method renders.**

Extension Method	Strongly Typed Method	Html Control
Html.ActionLink()	NA	<a>
Html.TextBox()	Html.TextBoxFor()	<input type="textbox">
Html.TextArea()	Html.TextAreaFor()	<input type="textarea">
Html.CheckBox()	Html.CheckBoxFor()	<input type="checkbox">
Html.RadioButton()	Html.RadioButtonFor()	<input type="radio">
Html.DropDownList()	Html.DropDownListFor()	<select> <option> </select>
Html.ListBox()	Html.ListBoxFor()	multi-select list box: <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>
Html.Editor()	Html.EditorFor()	Generates Html controls based on data type of specified model property e.g. textbox for string property, numeric field for int,

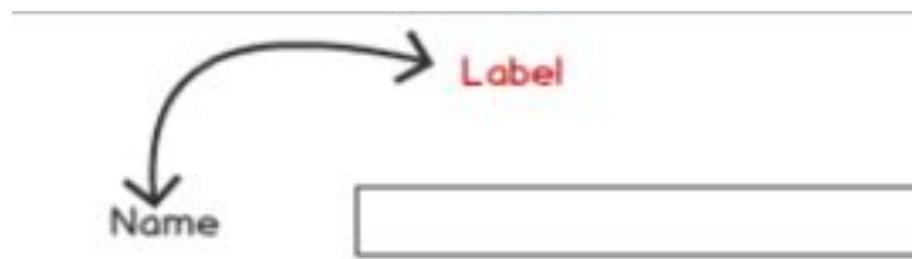
Create a Label in ASP.NET MVC

Html.Label Helper class renders an HTML label control that displays read-only text. It is a simple type method that only renders label control and it may be or not bounded by any model properties.

Html helper class is used to generate Html elements. The label () helper method is a loosely typed extension method that is used to create a Label(<label>) element in the razor view.

Example:

```
@Html.Label("User Name ")
```



Create a Textbox in ASP.NET MVC

`Html.TextBox` is extension method of `HtmlHelper` class that draws HTML `TextBox` and accept input from user. `Html.TextBox` is loosely typed method that renders plain textbox input and doesn't get bounded with any model properties.

To create a `TextBox` using `HTML Helper Method` in the `ASP.NET MVC` application, we need to use the `TextBox Helper` method. The `TextBox()` `HTML Helper` method is a loosely typed method whereas the `TextBoxFor()` `HTML Helper` method is a strongly typed method.

Example:

```
@Html.TextBox()
```

```
@Html.TextBox("txtUsername")
```

Html helper class is used to generate Html elements. TextBox() helper method is a loosely typed extension method that is used to create a textbox(<input type="text">) element in razor view.

Output:

Create a Password Helper in ASP.NET MVC

Html.Password Helper class generates password input fields in a web form that is used to ask and validate user passwords. The characters entered in the password field are masked with a special character * (asterisk) or whatever you set on it.

Example:

```
@Html.Password() = @ Html.Password("Password")
```

The Password() method is a loosely typed method because It has a name parameter is a string. The name parameter can be the model class property. The value should be binding the property. So it automatically displays a value of the model property in a password and visa-versa

Output:

How to use RadioButton() Helper in ASP.NET MVC

Radio Button provides a list of options and lets you choose only one option in a panel. Radio Button is used widely in a form and carry true for selected items and false for non-selected items

RadioButton() Method Signature:

```
MvcHtmlString RadioButton(string name, object value, bool isChecked, object htmlAttributes)
```

Example: Male and Female

```
@Html.RadioButton("Gender", "Male", true, new { id = "male" }) Male
```

```
@Html.RadioButton("Gender", "Female", false, new { id = "female" }) Female
```

The RadioButton() method is a loosely typed method because It has a name parameter is a string. The name parameter can be the model class property. The value should be an object value of the property.

Output:

Gender:	<input checked="" type="radio"/> Male <input type="radio"/> Female
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How to use TextArea() Helper in ASP.NET MVC

TextArea is a multiline text input control that can accept a large number of string lines. Usually, the size of TextArea is divided into rows and columns and you can set it according to your needs.

TextArea() Method Signature:

```
MvcHtmlString Html.TextArea(string name, string value, object htmlAttributes)
```

Example:

```
@Html.TextArea("Address")
```

The TextArea() method is a loosely typed method because It has a name parameter is a string. The name parameter can be model class property. The value should be an object value of the property. So it automatically displays a value of the model property in a textarea and visa-Versa.

Output:

How to use CheckBox() Helper in ASP.NET MVC

A checkbox is a small box that lets you choose multiple options. It only carries true and false values for the checked and unchecked items. In the ASP.NET MVC Helper class, you have given `Html.CheckBox()` and `Html.CheckBoxFor()` Extension method to work with.

CheckBox() Method Signature::

```
MvcHtmlString CheckBox(string name, bool isChecked, object htmlAttributes)
```

Example:

```
@Html.CheckBox("Dancing") Dancing
```

The CheckBox() method is a loosely typed method because It has a name parameter is a string. The name parameter can be model class property. The value should be an object value of the property. So it automatically displays a value of the model property in a CheckBox and visa-Versa.

Output:

Hobbies :	<input checked="" type="checkbox"/> Cricket	<input type="checkbox"/> Dancing	<input type="checkbox"/> Drawing
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How to use DropDownList() Helper in ASP.NET MVC

DropDownList is a visual control with a down arrow that displays a list of items and forces you to choose only one item at a time. Dropdown List is not editable, it means the user cannot enter own value and is limited to choosing an item from the selection.

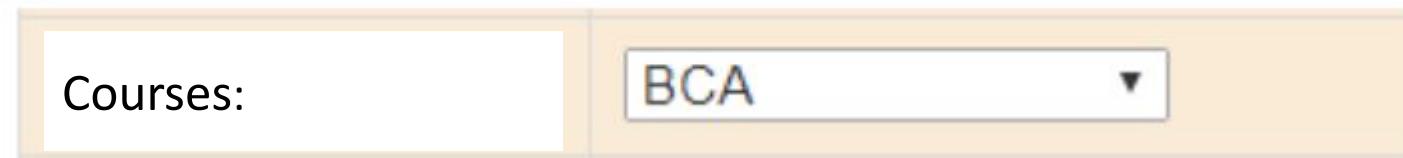
DropDownList() Method Signature:

```
MvcHtmlString Html.DropDownList(string name, IEnumerable<SelectListItem> selectList,  
string optionLabel, object htmlAttributes)
```

Example:

```
@Html.Label("Courses")
@{IEnumerable<String> strCourses= new List<String>
{"BSCS","BSIT","BSBA","BSIE","BSECE";}
@Html.DropDownList("ddlCourses", new
SelectList(strCourses),"Select Course")
```

The DropDownList() method is a loosely typed method because It has a name parameter is a string. The name parameter can be model class property. The second parameter to include the list. So it automatically displays a value of the model property in a DropDownList and visa-Versa.

Output:

**END OF PRESENTATION.
THANK YOU!**