Microsoft

ASP.NET

# Module 6

# Controllers

# Label, Textbox, Button, RadioButton, and DropDownList

Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

Management
System
ISO 9001:2015

TÜVRheinland
CERTIFIED

www.tuv.com
ID 9108652629

**QS STARS**
RATING SYSTEM
★  ★  ★

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

## I.  Preparations

At the end of this module students will:

- Set the properties of the controllers
- implement the Label, Textbox, Button, RadioButton, Checkbox and Dropdown List controllers.

## II.  Presentation

### Label Controller

This control is used to display textual information on the web forms. It is mainly used to create caption for the other controls like: textbox.

To create label either we can write code or use the drag and drop facility of visual studio 2017.

This is server side control, asp provides own tag to create label. The example is given below.

**< asp:LabelID="Label1" runat="server" Text="Label" ></asp:Label>**

| Property | Description |
|---|---|
| AccessKey | It is used to set keyboard shortcut for the label. |
| TabIndex | The tab order of the control. |
| BackColor | It is used to set background color of the label. |
| BorderColor | It is used to set border color of the label. |
| BorderWidth | It is used to set width of border of the label. |
| Font | It is used to set font for the label text. |
| ForeColor | It is used to set color of the label text. |
| Text | It is used to set text to be shown for the label. |
| ToolTip | It displays the text when mouse is over the label. |
| Visible | To set visibility of control on the form. |

Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

| Height | It is used to set height of the control. |
|--------|------------------------------------------|
| Width | It is used to set width of the control. |

### Textbox Controller

This is an input control which is used to take user input. To create **TextBox** either we can write code or use the drag and drop facility of visual studio IDE.

This is server side control, asp provides own tag to create it. The example is given below.

**< asp:TextBoxID="TextBox1" runat="server" ></asp:TextBox>**

| Property | Description |
|----------|-------------|
| AccessKey | It is used to set keyboard shortcut for the control. |
| TabIndex | The tab order of the control. |
| BackColor | It is used to set background color of the control. |
| BorderColor | It is used to set border color of the control. |
| BorderWidth | It is used to set width of border of the control. |
| Font | It is used to set font for the control text. |
| ForeColor | It is used to set color of the control text. |
| Text | It is used to set text to be shown for the control. |
| ToolTip | It displays the text when mouse is over the control. |
| Visible | To set visibility of control on the form. |
| Height | It is used to set height of the control. |
| Width | It is used to set width of the control. |
| MaxLength | It is used to set maximum number of characters that can be entered. |
| Readonly | It is used to make control readonly. |

Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

**Button Controller**

This control is used to perform events. It is also used to submit client request to the server. To create **Button** either we can write code or use the drag and drop facility of visual studio IDE.

This is a server side control and asp provides own tag to create it. The example is given below.

**< asp:ButtonID="Button1" runat="server" Text="Submit" BorderStyle="Solid" ToolTip="Submit"/>**

| Property | Description |
|---|---|
| AccessKey | It is used to set keyboard shortcut for the control. |
| TabIndex | The tab order of the control. |
| BackColor | It is used to set background color of the control. |
| BorderColor | It is used to set border color of the control. |
| BorderWidth | It is used to set width of border of the control. |
| Font | It is used to set font for the control text. |
| ForeColor | It is used to set color of the control text. |
| Text | It is used to set text to be shown for the control. |
| ToolTip | It displays the text when mouse is over the control. |
| Visible | To set visibility of control on the form. |
| Height | It is used to set height of the control. |
| Width | It is used to set width of the control. |

Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

Management
System
ISO 9001:2015
www.tuv.com
ID 9108652629

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

### RadioButton

It is an input control which is used to takes input from the user. It allows user to select a choice from the group of choices. To create **RadioButton** we can drag it from the toolbox of visual studio.

This is a server side control and ASP.NET provides own tag to create it. The example is given below.

**< asp:RadioButtonID="RadioButton1" runat="server" Text="Male" GroupName="gender"/>**

| Property | Description |
|----------|-------------|
| AccessKey | It is used to set keyboard shortcut for the control. |
| TabIndex | The tab order of the control. |
| BackColor | It is used to set background color of the control. |
| BorderColor | It is used to set border color of the control. |
| BorderWidth | It is used to set width of border of the control. |
| Font | It is used to set font for the control text. |
| ForeColor | It is used to set color of the control text. |
| Text | It is used to set text to be shown for the control. |
| ToolTip | It displays the text when mouse is over the control. |
| Visible | To set visibility of control on the form. |
| Height | It is used to set height of the control. |
| Width | It is used to set width of the control. |
| GroupName | It is used to set name of the radio button group. |

Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

### DropDownList Controller

The DropDownList is a web server control which is used to create an HTML Select component. It allows us to select an option from the dropdown list. It can contain any number of items

ASP.NET provides a tag to create DropDownList for web application. The following is the Syntax of DropDownList tag.

```
<asp:DropDownList id="DropDownList1" runat="server"
    DataSource="<% databindingexpression %>"
    DataTextField="DataSourceField"
    DataValueField="DataSourceField"
    AutoPostBack="True|False"
    OnSelectedIndexChanged="OnSelectedIndexChangedMethod">
  <asp:ListItem value="value" selected="True|False">
    Text
  </asp:ListItem>
</asp:DropDownList>
```

Initially, it is an empty form. Now, we will add a new DropDownList by dragging it from the toolbox.

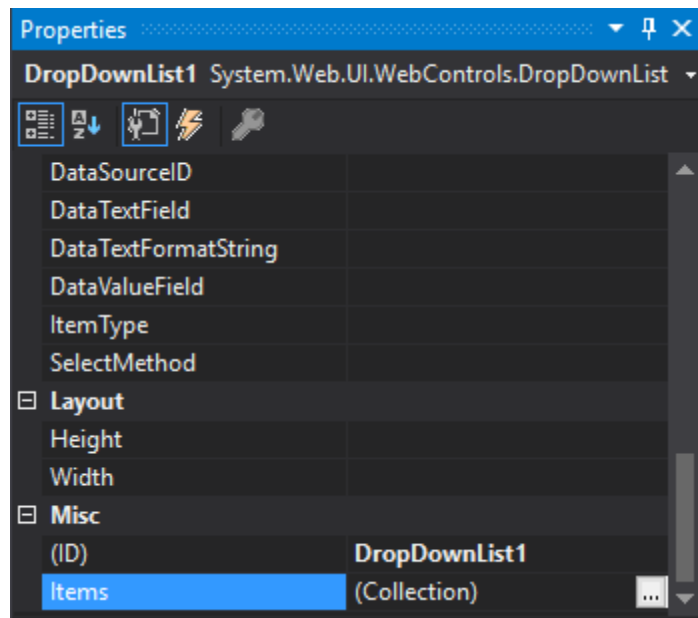**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**
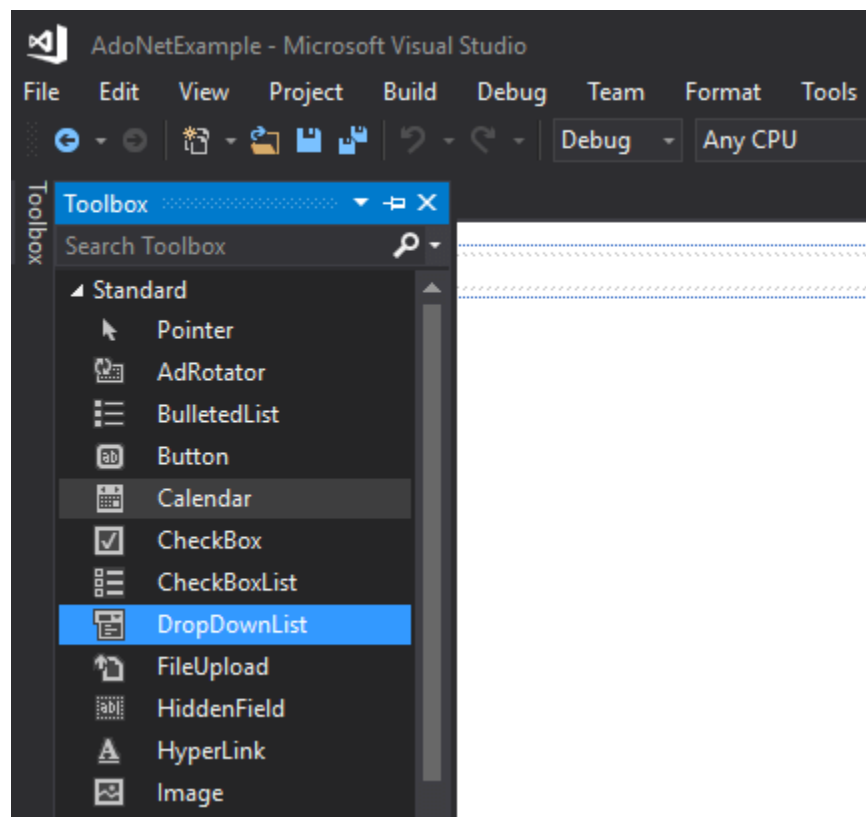


After dragging, our web form looks like the below.
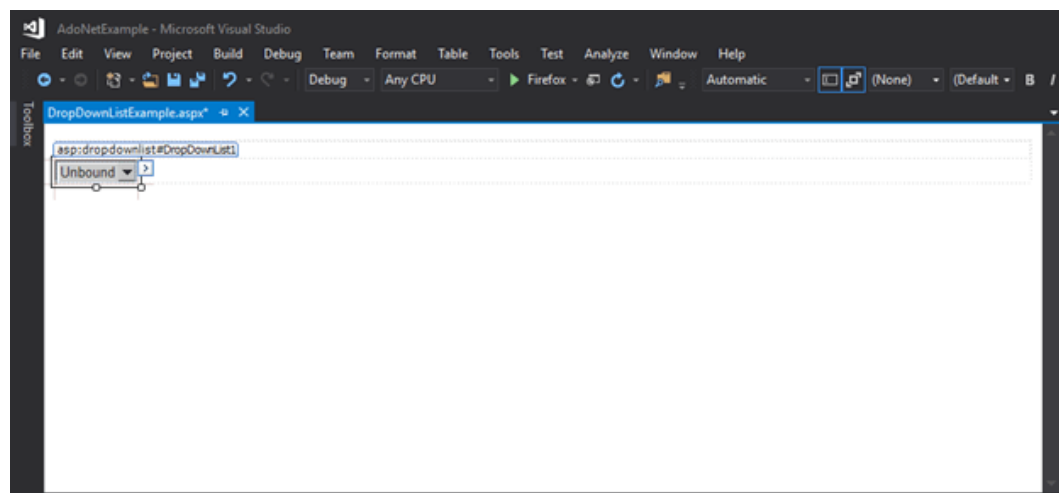
**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

Now, to add items to the list, visual studio provides **Items** property where we can add items. The property window looks like this.
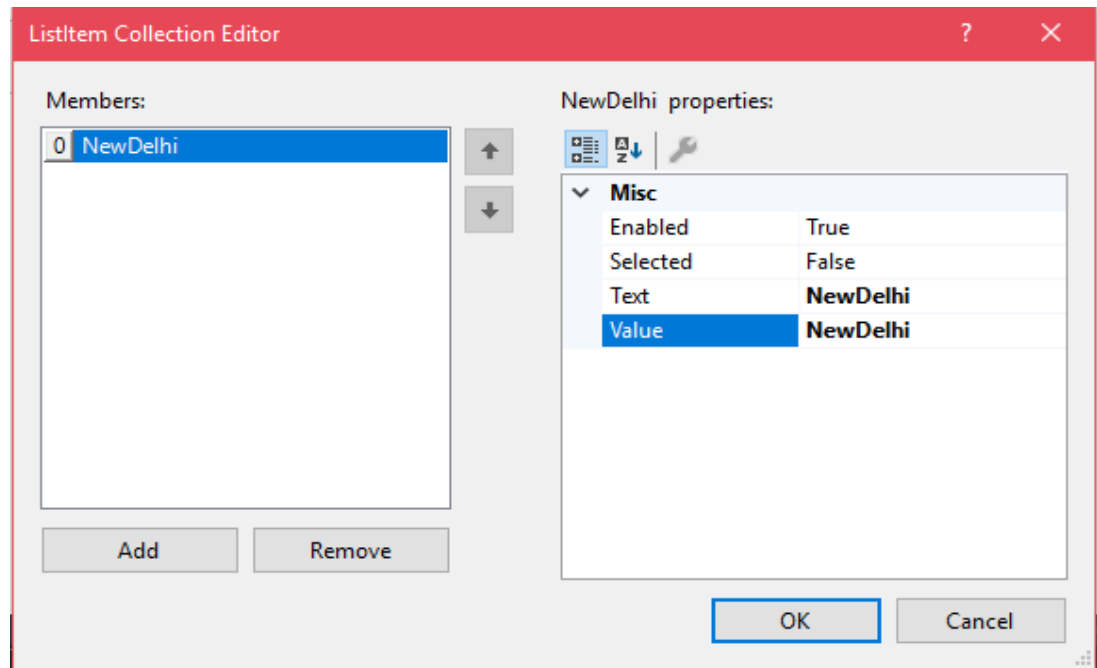


Click on the items (collection) and it will pop up a new window as given below. Initially, it does not have any item. It provides **add** button to add new items to the list.
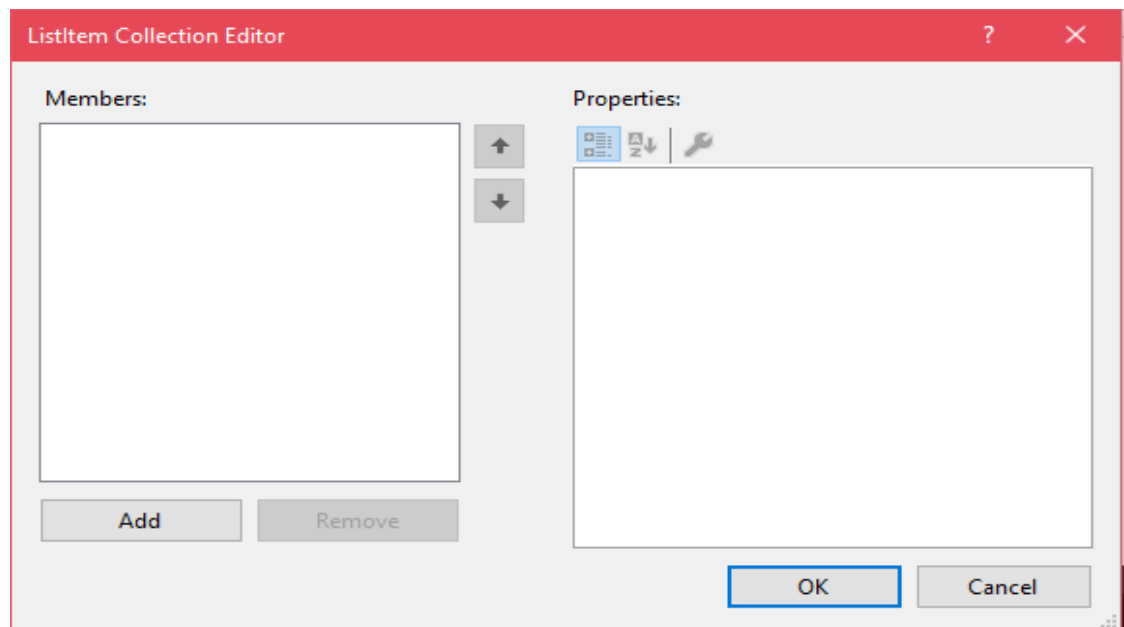
**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

Adding item to the DropDownList, by providing values to the Text and Value properties.
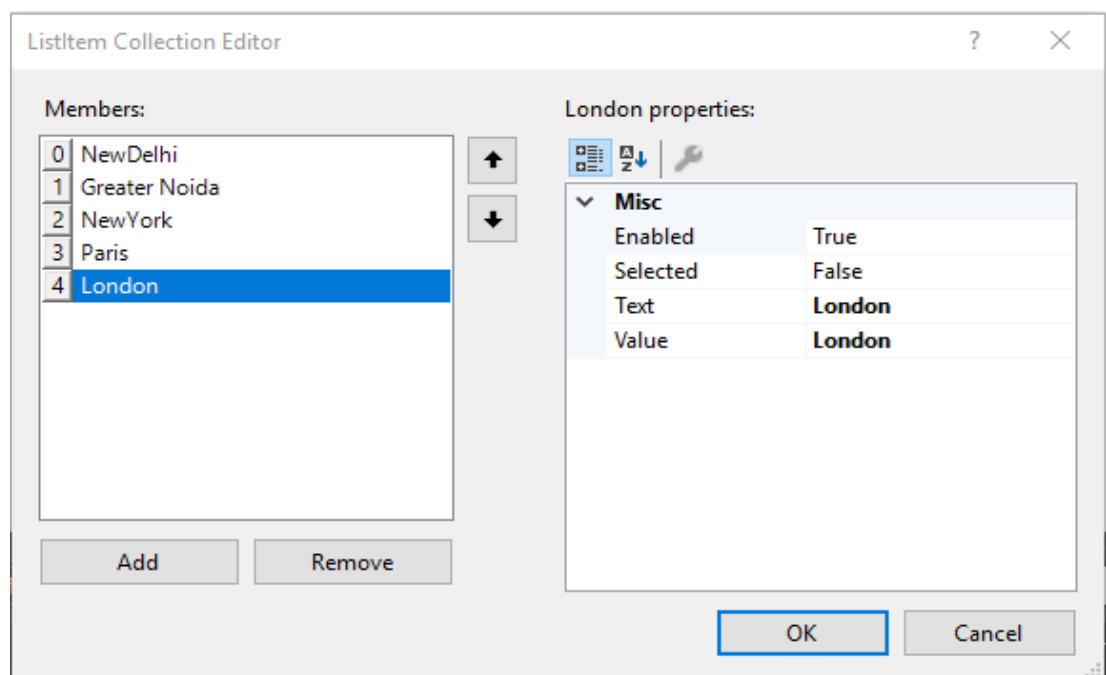


We have added more items to it and now, it looks like the following.
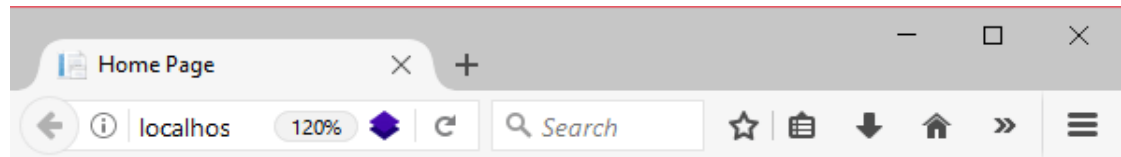
Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

After clicking OK,



At server side, selected city is fetched and display to the user.



All server side control has its own properties and events. below list shows basic properties of Dropdownlist control.

Republic of the Philippines
**CEBU TECHNOLOGICAL UNIVERSITY**
MAIN CAMPUS
M.J. Cuenco Ave. Cor. R. Palma Street, Cebu City, Philippines
Website: http://www.ctu.edu.ph

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

| Properties | Description |
|---|---|
| ID | Identification name of control. |
| BackColor | It is used to set background color of control. |
| ForColor | It is used to set text color of the control. |
| ToolTip | It displays a text on control when mouse over on it. |
| TabIndex | It is used manage tab order of control. |
| CssClass | It is used to apply style on control. |
| Enable | true/false – used to enable or disable control. |
| Enable Theming | true/false – It is used to enable or disable effect of theme on control. |
| CausesValidation | true/false – It is used to enable or disable validation effect on control |
| Visible | true/false – It is used to hide or visible control on web page. |

Below lists show important properties of Dropdownlist control, which is use in programming side.

| Properties | Description |
|---|---|
| Items | It shows the collection of item in the Dropdownlist. |
| DropDownList1.Items.Count | Return the total count of items in the dropdownlist. |
| DropDownList1.Items.Add("ItemName") | Add the new item in to the dropdownlist control. |

**COLLEGE OF COMPUTER, INFORMATION AND COMMUNICATIONS TECHNOLOGY**

| | |
|---|---|
| DropDownList1.Items.Insert(int index, "ItemName") | Add the new item at specific position in dropdownlist control. |
| DropDownList1.Items.Remove("ItemName") | Remove the item from the dropdownlist control. |
| DropDownList1.Items.RemoveAt(int index) | Remove the item from the dropdownlist at desired position index. |
| DropDownList1.Items.Clear() | Clear all the items from dropdownlist control. |
| DropDownList1.SelectedItem.Text | Returns the Text value of selected item of the dropdownlist. |
| DropDownList1.SelectedValue | Returns the Value property of the selected item of the dropdownlist. |
| DropDownList1.SelectedIndex | Returns the Index of selected item of dropdownlist. (Index always start from Zero). |