

ASP .NET Control

Types Of Control

- **HTML server control** : controls refer to the HTML elements that can be used in server code
- **ASP.NET server controls** : controls include traditional form controls, such as text boxes and buttons, and complex controls, such as tables
- **Validation controls** : These controls are used to validate users' input.
- **User controls** : These controls are created from the existing Web Forms pages and can be used in other Web Forms pages

Add The Control

- Toolbox : Drag and drop the object
- The ASP.NET code : Adding from code behind

HTML Server Control

Using HTML to add a control :

- Actual syntax

```
<input id="Text1" Type=text >
```

- In ASP.NET controls

```
<asp:TextBox id="TextBox1"  
  runat="server"></asp:TextBox>
```

Lacks the attribute `input` and adding the attribute `runat="server"`

ASP.NET Server Control (1)

Label & Literal Control

- Display static text in a Web Forms page that users cannot edit
- Property :
 - Text
 - Visible
 - Backcolor
 - Forecolor

ASP.NET Server Control (2)

TextBox Control

- To get information, such as text, numbers, and dates, from users in a Web Forms page
- Property :
 - Text
 - MaxLength
 - Width
 - TextMode
 - Height
 - Columns
 - Rows

ASP.NET Server Control (3)

CheckBox Control

- A single check box
- Give independent choices or options that user can select
- Property :
 - Text
 - TextAlign
 - SelectedItem
 - Selectedvalue
 - SelectedIndex

ASP.NET Server Control (4)

CheckBoxList Control

- A collection of several check boxes
- Need to add a list of items to it
- Property :
 - TextAlign
 - Items :
 - Text
 - Value
 - Selected
 - RepeatColumns
 - RepeatDirection

ASP.NET Server Control (5)

RadioButton Control

- A single radio button
- Set of choices or options that user can select
- Property :
 - TextAlign
 - Checked

ASP.NET Server Control (6)

RadioButtonList Control

- Is a collection of radio buttons
- Provides a set of mutually exclusive options, user can select only one radio button in a group
- Property :
 - RepeatColumns
 - RepeatDirection
 - TextAlign
 - Items : Text, Value, Selected

ASP.NET Server Control (7)

ListBox Control

- Property :
 - DataTextFormatString
 - Height
 - Rows
 - Data
 - Width
 - SelectionMode

ASP.NET Server Control (8)

Hyperlink Control

- Creates links on a Web page and allows users to navigate from one page to another in an application or an absolute URL
- Property :
 - Text
 - ImageUrl
 - NavigateUrl

ASP.NET Server Control (9)

DropDownList

- Allows to select an item from a set of predefined items
- Property :
 - Text
 - Width
 - Height
 - Datasource
 - Datavaluefield
 - Datatextfield
 - Databind
 - DataTextFormatString

ASP.NET Server Control (10)

Table Control

- To display information in a tabular format
- Property :
 - ColumnSpan
 - RowSpan
 - Text
 - HorizontalAlign
 - VerticalAlign

ASP.NET Server Control (11)

Image Control

- Allows to display images in a Web Forms page
- Property :
 - ImageURL
 - ImageAlign
 - AlternateText

ASP.NET Server Control (12)

Button

- To perform an event, such as form submit, on the server
- Three kinds of buttons :
 - Button : Represents a standard button.
 - LinkButton : Represents a button that can act as a hyperlink in a page. However, a LinkButton control causes the page to be submitted to the server.

ASP.NET Server Control (13)

Button (Cont.)

- ImageButton : Represents a graphical button to provide a rich button appearance. You can set the ImageUrl property to point to a specific image.

ASP.NET Server Control (14)

Button (Cont.)

- Property
 - TextAlign : Button and LinkButton
 - Enabled : Button, LinkButton, and ImageButton
 - ImageURL : ImageButton
 - AlternateText : ImageButton

ASP.NET Server Control (15)

Datagrid Controls

- Property
 - DataSource
 - DataBind()
 - PropertyBuilder
 - BoundColumn
 - ButtonColumn
 - HyperlinkColumn
 - TemplateColumn

Validation Control (1)

- Make page validation much easier and reduce the amount of code that the developer must write to perform page validation
- Common property :
 - ControlToValidate
 - ErrorMessage : Display error message on ValidationSummary Control
 - Text : Display error message on validator
 - Display : None, Static, Dynamic

Validation Control (2)

- RequiredFieldValidator : Is used when a value is required for an input element on the Web page
- CompareValidator : Compares the value of an input control to another input control or a constant value using a variety of operators and types.
 - ControlToCompare
 - ValueToCompare
 - Operator
 - Type : String, Integer, Date, Double, etc.

Validation Control (3)

- RangeValidator : Checks that a user's entry is between specified lower and upper boundaries.
 - MinimumValue
 - MaximumValue
 - Type : String, Integer, Date, Double, etc.
- RegularExpressionValidator : Checks that the entry matches a pattern defined by a regular expression.
 - ValidationExpression

Validation Control (4)

- CustomValidator : Performs user-defined validation on an input control
- Validation Summary : capture all the validation errors from the other controls and display them on the page as a list, a bulleted list, or in single paragraph format.

User Control

These controls are created from the existing Web Forms pages and can be used in other Web Forms pages

