
Asp.Net

Ch. 01

ASP.Net Controls

Basics Controls in ASP.NET :

1. Label Control :

- Label Control is used display any message or gives any information.
- You can assign message to Label Control by using Text property.

Syntax :

```
<asp : Label ID="Label Unique Name"  
    runat="server"  
    Text="TEXT To Display">  
</asp:Label>
```

Basics Controls in ASP.NET : Label

Property	Meaning
BackColor	Enables to change the background color of the label.
CssClass	Enables to associate Css class with the label.
Font	Enables to set the font properties of the label.
Tooltip	Enables to set Tooltip text of the label.
BorderStyle	Enables to set a border which would be displayed around the label.
BorderColor	Enables to set the color of the border which would displayed around the label.

Basics Controls in ASP.NET : Label

CssClass :

- ❖ Enables to associate Cssclass with the label.
- ❖ We can define different style in **.aspx** file. These styles can be define in head section between `<style>` tag.

Basics Controls in ASP.NET : TextBox

2. TextBox Control :

- TextBox Control is used get Text from user.
- It is a type of input control.
- It can get text in three different input modes.

SingleLine	Used to get single line input from user.
Multiline	Used to get multi line input from user.
Password	Used to get single line input from user but in from of password characters.

Basics Controls in ASP.NET : TextBox

➤ TextBox Syntax :

```
<asp:TextBoxID="TextBox1"  
  runat="server">Default Text To Display  
</asp:TextBox>
```

- The Text Control supports many properties.
- Some of the properties can given as :
 - AutoPostBack, Columns, MaxLength, ReadOnly, Rows, TextMode

Basics Controls in ASP.NET : TextBox

Property	Meaning
AutoPostBack	Enables us to post the form containing the TextBox back to the server automatically when the any event is raised.
Columns	Enables to specify the number of columns to shown to the user.
MaxLength	Enables to specify the maximum length of the data that user can enter in the text box.
ReadOnly	Enables to prevent the users from changing the text in text box.

Basics Controls in ASP.NET : TextBox

Property	Meaning
Rows	Enables to specify the number of rows to be displayed to the user.
TextMode	Used to set three different modes of TextBox. The mode can be given as: SingleLine, Multiline and Password.

TextMode Example :

```
<asp:TextBox ID="TextBox2" runat="server"  
    TextMode="MultiLine" >  
</asp:TextBox>
```


Basics Controls in ASP.NET : TextBox

■ Common Methods

Method Name	Meaning
DataBind	Used to bind Textbox control with particular table columns while connecting with database.
Focus	It is used to transfer the call to this method, when the focus is transferred to related textbox.

Basics Controls in ASP.NET : TextBox

■ Common events

Event Name	Meaning
Data Binding	It is raised when the data is bounded to TextBox.
Text Changed	It is raised on the server when the contents of TextBox are changed.

Def.

- Write Codes to demonstrate use of TextMode with given output.

- Output :

My Data	
Name	Gohil Manoharsinh
Address	A.K. House, Sanghavi Street, Opp. Soni Vadi
City	Lathi
PassWord	●●●●●●●●
<input type="button" value="Submit"/>	

Basics Controls in ASP.NET : Button

3. Button Control :

- `<asp : Button ID = "Button1" Text="Click Here" runal="server"> </asp:Button>`
- Properties of Button

Property	Meaning
Enabled	Enables to make a button enabled or disable control.
TabIndex	Enables to get or set tab index for control.

Basics Controls in ASP.NET : Button

Property	Meaning
On ClientClick	Enables to specify a client side script that executes when the button is clicked.
PostBack Url	Enables to post a form to a particular page.
Use Submit Behavior	Enables to use Javascript to post a form.
Command Argument	Enables to specify a command argument that is passed to the command event.

Basics Controls in ASP.NET : Button

Property	Meaning
Command Name	Enables to specify a command name that is passed to the command event.

Basics Controls in ASP.NET : Button

■ Common methods

Method Name	Meaning
DataBind	Used to bind Button control with particular table columns while connecting with database.
Focus	It is used to transfer the cell to this method, when the focus is transferred to related Button.

Basics Controls in ASP.NET : Button

■ Common events

Event Name	Meaning
Click	It is raised when a click event is generated.
DataBinding	It is raised when data binded to Button.
Command	It is raised when a click event is generated.

Basics Controls in ASP.NET :

□ Example:

- `<asp:Button ID="Button1" runat="server" BackColor="#FF309C" Font-Bold="True" Font-Names="Verdana" Font-Size="Large" Height="49px" Text="Click Here" Width="127px" />`

□ Output:



Basics Controls in ASP.NET :

4. RadioButton Control :

- `<asp : RadioButton ID = "RadioButton1" Text="Value1" runat="server"> </asp:RadioButton>`
- Properties of RadioButton

Property	Meaning
Enabled	Enables to make a button enabled or disable control.
TabIndex	Enables to get or set tab index for control.

Basics Controls in ASP.NET :

Property	Meaning
Checked	Enables to select RadioButton.
GroupName	Enables to create a multiple RadioButton under a same group.
TextAlign	Enables to align text in RadioButton control.
AutoPostBack	Enables us to post the form counting the RadioButton back to the server automatically when Radio Button is checked or un checked.

Basics Controls in ASP.NET :

■ Common Methods

Method Name	Meaning
DataBind	Used to bind RadioButton control with particular table columns while connecting with database.
Focus	It is used to transfer the call to this method, when the focus is transferred to related RadioButton.

Basics Controls in ASP.NET :

■ Common events

Event Name	Meaning
Data Binding	It is raised when the data is bind to RadioButton.
Checked Changed	It is raised when you check or uncheck RadioButton.

Basics Controls in ASP.NET :

□ Example:

```
<asp:RadioButton ID="RadioButton1"  
  runat="server"  
  AutoPostBack="True" Checked="True"  
  GroupName="choice" Text="Pani Puri" />
```

□ Output:

I Like...

Pani Puri

Basics Controls in ASP.NET :

5. DropDownList Control :

```
<asp : DroupDownList ID = "DroupDownList1"  
  runat="server"> </asp:DropDownList>
```

■ Properties of DropDownList

Property	Meaning
Enabled	Enables to make a button enabled or disable control.
TabIndex	Enables to get or set tab index for control.

Basics Controls in ASP.NET :

Property	Meaning
Items	Enables to get the collection of items in the List control.
Selected Index	Enables to get or set the index of the selected item in the ListBox control
AutoPostBack	Enables us to post the form counting the DropDownList back to the server automatically when DropDownList item is selected.

Basics Controls in ASP.NET :

Property	Meaning
Selected Value	Enables to get the value of selected item in the list control, or selects the item that contains specified value.

Basics Controls in ASP.NET :

■ Common Methods

Method Name	Meaning
DataBind	Used to bind DropDownList control with particular table columns while connecting with database.
Focus	It is used to transfer the call to this method, when the focus is transferred to related DropDownList.

Basics Controls in ASP.NET :

■ Common events

Event Name	Meaning
Data Binding	It is raised when the data is bind to DropDownList.
Selected Index Changed	It is raised when you change the selection in the DropDownList.

DropDownList :

- To add List ITEM :

```
<asp:ListItem>TEXT</aps:ListItem>
```

- Example :

```
<asp:DropDownList ID="Dd1" runat="server">
```

```
  <asp:ListItem>Lathi</aps:ListItem>
```

```
  <asp:ListItem>Amreli</aps:ListItem>
```

```
</asp:DropDownList>
```

Basics Controls in ASP.NET :

5. LinkButton Control :

- `<asp : LinkButton ID = "LinkButton1" runat="server">Bhavin</asp: LinkButton >`
- Properties of LinkButton

Property	Meaning
Enabled	Enables to make a link button enabled or disable control.
TabIndex	Enables to get or set tab index for control.

Basics Controls in ASP.NET :

Property	Meaning
AutoPostBack	Enables us to post the form counting the LinkButton back to the server automatically when LinkButton item is clicked.
Text	Enables to set or get the text of the control.
GroupName	Enable to make group of control with the same name.

Basics Controls in ASP.NET :

■ Common Methods

Method Name	Meaning
DataBind	Used to bind LinkButton control with particular table columns while connecting with database.
Focus	It is used to transfer the call to this method, when the focus is transferred to related LinkButton.

Basics Controls in ASP.NET :

■ Common events

Event Name	Meaning
Data Binding	It is raised when the data is bind to LinkButton.
Click	It is raised when the Link Button is clicked.
Command	It is raised when the Link Button is clicked.

Basics Controls in ASP.NET :

6. Literal Control :

- It is similar to the Label control.
- You can use the Literal control to display **text** or **HTML control in a browser.**
- ```
<asp : Literal ID = "Literal1"
 runat="server"
 Text="MONARCH">
</asp: Literal >
```

# Basics Controls in ASP.NET :

|              |                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------|
| Pass Through | Display content of the control without encoding.                                                           |
| Encode       | Displays the content of the control after HTML have encoded the content.                                   |
| Transform    | Displays the content of the control after stripping markup that is not supported by the requesting device. |

# Basics Controls in ASP.NET :

## 6. ImageMap Control :

- It enables us to post a form to the server.
- It is also displays an image, but different parts of image are linked to different URLs.
- An ImageMap is composed out of many instances of HotSpot class.
- A hotspot defines the clickable regions in an image map.
- The ASP.Net framework supports three hotspot class.

# Basics Controls in ASP.NET :

- ❑ `<asp:ImageMap ID="ImageMap1" runat="server" ></asp:ImageMap >`
- ❑ HotSpot classes are:

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Circle<br>HotSpot    | It defines a circular area in Image which has clickable region.  |
| Polygon<br>HotSpot   | It defines a polygon area in Image which has clickable region.   |
| Rectangle<br>HotSpot | It defines a rectangle area in Image which has clickable region. |

# Basics Controls in ASP.NET :

## Common Properties

| Property     | Meaning                                                                         |
|--------------|---------------------------------------------------------------------------------|
| Enabled      | Enables to make a link button enabled or disable control.                       |
| TabIndex     | Enables to get or set tab index for control.                                    |
| HotSpot Mode | Enable to specifies the behavior of the image map when you click on the region. |

# Basics Controls in ASP.NET :

| Property | Meaning                                                                                               |
|----------|-------------------------------------------------------------------------------------------------------|
| HotSpots | Enables to add or remove different types of HotSpots mode in Image like Circle, Rectangle or polygon. |
| ImageUrl | Enables to get the image from the selected item.                                                      |

# Basics Controls in ASP.NET :

## ■ Common Methods

| Method Name     | Meaning                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------|
| <b>DataBind</b> | Used to bind ImageMap control with particular table columns while connecting with database.        |
| <b>Focus</b>    | It is used to transfer the call to this method, when the focus is transferred to related ImageMap. |

# Basics Controls in ASP.NET :

## ■ Common events

| Event Name | Meaning                                    |
|------------|--------------------------------------------|
| Click      | It is raised when the ImageMap is clicked. |
| Command    | It is raised when the ImageMap is clicked. |



# Basics Controls in ASP.NET :

## 6. Panel Control :

- It is container which contain controls of different types.
- It enable you to work with a group control at a time
- ```
<asp:Panel ID="Panel1"
    runat="server" Height="74px" >
</asp:Panel>
```

Basics Controls in ASP.NET :

Common Properties

Property	Meaning
Enabled	Enables to make a Panel enabled or disable control.
TabIndex	Enables to get or set tab index for control.
BorderColor	Enable to set the color of the border.

Basics Controls in ASP.NET :

Common Properties

Property	Meaning
Direction	Enables to set the direction in which the control would be displayed as left or right or right or left.
ScrollBars	Enables to display scrollbar in control.

Basics Controls in ASP.NET :

7. Listbox Control :

- It is list control. It will store data as LIST format.
- We can set number of lines using property windows as well as runtime.
- This control will work same as DropDown List.

Basics Controls in ASP.NET :

Listbox Control :

```
<asp:ListBox ID="ListBox1"  
  runat="server"> </asp:ListBox>
```

■ Properties of Listbox Control :

Property	Meaning
Enabled	Enables to make a box enabled or disable control.
TabIndex	Enables to get or set tab index for control.

Basics Controls in ASP.NET :

Property	Meaning
Items	Enables to get the collection of items in the List control.
Selected Index	Enables to get or set the index of the selected item in the ListBox control
AutoPostBack	Enables us to post the form counting the ListBox back to the server automatically when Listbox item is selected.

Basics Controls in ASP.NET :

Property	Meaning
Selected Value	Enables to get the value of selected item in the list control, or selects the item that contains specified value.

Basics Controls in ASP.NET :

■ Common Methods

Method Name	Meaning
DataBind	Used to bind ListBox control with particular table columns while connecting with database.
Focus	It is used to transfer the call to this method, when the focus is transferred to related ListBox.

Basics Controls in ASP.NET :

■ Common events

Event Name	Meaning
Data Binding	It is raised when the data is bind to ListBox.
Selected Index Changed	It is raised when you change the selection in the ListBox.

ListBox :

- To add List ITEM :

```
<asp:ListItem>TEXT</aps:ListItem>
```

- Example :

```
<asp:ListBox ID="Lst1" runat="server">
```

```
  <asp:ListItem>Rajkot</aps:ListItem>
```

```
  <asp:ListItem>Amreli</aps:ListItem>
```

```
</asp:ListBox>
```

Basics Controls in ASP.NET :

7. CheckBox Control :

- It is CheckBox control. It will store logical data like True/False, Yes/No.
- We can use text properties for these controls.
- Syntax :

```
<asp:CheckBox ID="CheckBox1"  
    runat="server" Text="10th" />
```

Steps for Creating a Web Application :

- In Visual Studio...

Step-1

- Goto file menu
 - Select New
 - **Website (Shift + Alt + N)**

Step-2

- Step 1 will display a New Website Dialog Box.
- Select **ASP.Net Web Site** option, write your selected **web name** and press **ok**

Step-3

- It will display a screen with **default.aspx** file source view.

Steps for Creating a Web Application :

Step-4

- We can put controls by coding in Source view. OR
- Select Design view, now use the ToolBox and place some controls on to default.aspx.

Step-5

- Now double click on any of control.
- It will display a code window with file name, **Default.aspx.cs** (Note : For C#)
- now write Application Logic **or** Code in code window.

Steps for Creating a Web Application :

Step-6

- Now execute the application by,
 - Clicking on the Run Button from standard tools
 - Select Debug Menu
 - **Select : Start Debugging**
 - Press F5 to execute the application

Execution of Multiform web Application:

- We can maintain multiple webforms in ASP.Net easily....
- To maintain multiple webforms we can use **Response.Redirect()**
- Syntax :
`Response.Redirect("HTTP URL");`
- Purpose :
To redirect a webpage to another web page.
- Example :
`Response.Redirect("abc.aspx");`

Execution of Multiform web Application:

- You can add multiple forms inside Web Application by just right on your application in the Solution Explorer and then Click Add New Item and you will get a dialog box from that you can select Web Form and add that form in your application.
1. Open Visual Studio and create new website by selecting **File ->New -> Website**
 2. Rename the web application as MultiFormApp. By default, one web form **Default.aspx** would be added in the web application.

Execution of Multiform web Application:

3. We can Rename that form as **Choice.aspx**
4. Goto the **Solution Explorer** and right click on the application and click on the **Add New item** as shown below.
5. When you click on Add New Item you will get Add New Item Dialog box.
Now Select the Web Form Option from list.
Rename the form as **YourChoice.aspx**
New web form would be added in the Solution Explorer window.