

ASP .

- 1) Demonstrate the usage of HTML and Web Server control in creating a simple application.

* HTML control

The HTML controls, attributes is used to specify that the audio or video control must be displayed. It is a boolean attribute new in HTML file 5. We can use this attribute in two tags. It contains data = it links to the file which is in binary format.

* Control Name

- 1) Button

It is used to create HTML button.

- 2) Password - It is a password field which is used to get password from the user.

- 3) Text field - It is used to create text input.

- 4) Label - It is used to display text or images that cannot be edited by the user.

e.g. `<input id = "UserName" type = "text" size = "50" runat = "Server" />`

* Web con

- 2) Write an asp.net program that demonstrate use of web control.

The asp.net page framework includes a number of built-in controls that are designed to provide a more structured programming model for the web. These controls provide many features like automatic state management. Common approach to build the user interface for the web pages is simple access to value without having to use request object output is automatically customized based on the capabilities of the browser's ability to react to events in server side code to create applications that are better structured.

1) Dropdown list → The dropdown list control is a web server element that creates the dropdown menu & lets user select a single item from various options.

2) Button - It is used to create HTML button.

3) Label - It is used to display text or images that cannot be edited by the user.

(3) Write an asp.net that returns the windows name of your computer & URL of the page that you are visiting.

→ URL stands for Uniform resource locator.

A URL is nothing more than the address of a given unit resource on the Web. In theory, each valid URL points to a ^{unique} unit resource.

Such resources can be an HTML page, a CSS document, an image, etc.

A uniform resource locator colloquially known as address on the web is a reference to a resource that specifies its location on a computer network and mechanism for retrieving it.

A URL is a specific type of uniform resource identifier. Although many people use the two terms interchangeably, syntax - URL = Scheme ["://" authority] Path ["?" query] ["#" Fragment]

This is represented in a syntax diagram as:

IP address -

An Internet protocol [IP] address is a unique numerical identifier for every device or network that connects to the internet. Typically assigned by an internet service provider (ISP), an IP address is an online device address used for communicating across the internet.

There are two versions of IP addresses that are commonly used on the internet: IPv4 & IPv6.

4) Demonstrate dropdownlist box, checkbox, Radio button controls.

* dropdown list box control

All dropdown list box control combines the features of a listbox and a singlelineedit. In some Dropdownlist boxes, the user can select an item by entering the name of the item in the text box. In other Dropdownlist boxes, the user cannot modify the textbox and must click the item or enter the first character of the item to select it.

Syntax:

```
<select id="id"><option value=""></option></select>
```

* Radio button

RadioButton control is used, when we want the user to select only one option from the available choices. It is an input control which is used to get input from the user.

It allows user to select choice from the group of choices.

To create RadioButton we can drag it

from the toolbox of visual studio. This is

Server side control asp.net provides own tag to create it, with various attributes.

Syntax:-

```
<asp:RadioButton ID="RB1" runat="Server"
Text="Male" GroupName="gender"/>
```

5]

Demonstrate the use of calendar & advertisement control.

→ Calender control -

The Calender control in asp.net is used to display a single month of a Calender on a web page. The control allows you to select dates and move to the next or previous month. The calender control supports all the system controls to work with calendar. By default, this control displays the name of the current month, day headings for the days of the weeks, days of the months & arrow character for navigation to the previous or next month.

The calender is complex, powerful web server control that you can used to add a calender feature to your web page.

Syntax:

```
<asp:calender ID="Calender1" runat="Server">
```

```
</asp:Calenders>
```

* Advertisor control :-

The Advertisor control is used to select banners, graphics from a list, which is specified in an external XML schedule file. This external XML schedule file is called the advertisement file.

The Advertisor control allows you to specify the advertisement file & the type of window that the link should follow in the advertisement file. & the target property respectively.

Syntax :-

<asp:AdvertiserRunAd runat="server" Advertiser-
mentFile = "adfile.xml" Target = "_blank" />

Q) Create a "Registration" form to demonstrate
use of various validation controls.

⇒ Validation Control :-

In ASP.NET there are Validation Controls
are used to validate the user input
data such as data formated data type
etc. The Validation Controls are used for
validating the data entered in text
box controls, then any user enters the
data in a textbox and submits the
page on the server, then Validation
controls tag will check the data
field entered by the user.

Some different types of Validation
Controls :-

i) RequiredFieldValidator Control

It is known as an elementary
Validation control. It is a form that
does not consist of fields that are
mandatory to be filled. If the user
wants to proceed with the form, they
will have to mandatory fill this
fields.

Syntax :-

```
<asp:RequiredFieldValidator id="uniqueId" runat="Server" ControlToValidate="UniqueControlId" ErrorMessage="ErrorMessageForFailure" InitialValue="PlaceholderValue">
</asp:RequiredFieldValidator>
```

2) Required Regular Expression Validator

Required Regular Expression Validator is a control that holds a regular expression which clearly defines the format of the text. This means that if the text that has been added is in the same format then the Regex control will return true else false. This type of validation control is generally used to validate input fields like email, phone, zipcode etc.

Syntax :- In page1.aspx file write

```
<asp:RegularExpressionValidator id="someUniqueID" runat="Server" ControlToValidate="UniqueControlId" ErrorMessage="ErrorMessageForFailure" ValidationExpression="^([a-zA-Z]+([a-zA-Z0-9]+)*$)">
</asp:RegularExpressionValidator>
```

In this code we have to define validation expression which is defined by ^([a-zA-Z]+([a-zA-Z0-9]+)*\$). It is used to validate string which starts with letter and ends with letter. It can also contain numbers.

- i. Demonstrate the use of master pages with mapping themes

Master Page:

ASP.NET Master Pages allow you to create a consistent layout for the pages in your applications. A single master page defines the look and feel and standard behaviour that you want for all the pages or a group of pages in your applications. You can then create individual Content Pages that contain the content you want to display. When users request the Content Page, they merge with the master page to produce output that combines the layout of the master page with content from the Content Page.

How Master Page Work.

Master Page actually master pages consist of two pieces, the master page itself and one or more content pages. A master page is an ASP.NET file with the extension .master. For example: MySite.Master with a predefined layout that can include static `<html>` elements, and Server Controls.

8. Demonstrate Properties of Website Navigation Controls.

Navigation Controls.

Navigation control in ASP.NET manages the data passing between ASPX pages, web applications are having multiple pages interconnected with each other. So proper navigation system must be there which can help the end user to successfully work through and application.

- Types of Navigation Controls :-

1) Dynamic menus.

It was very difficult task to maintain the menu of a large website and time consuming, it is used to display the menus. You can use it as easy as other navigation controls. menu can be stored in a file to make it easier to maintain. This file is normally called web.sitemap, and its store in the root directory of the web.

Source Code :- Syntax :-

```
<%@ Page Language = "C#" AutoEventWireup = "true" CodeFile = "menu.aspx.cs"
Inherits = "Sapna_Navigation_Control_menu" %>
```

2) Tree Views.

A Tree view Control displays a hierarchical

list of items using lines to connect related items in a hierarchy. each item consist of a label and an optional bitmap.

Windows explorer uses a tree view control to display directories. You can use the tree view control in any situation in which you need to display hierarchical data.

Syntax -

```
<ASP: Treeview ID = "TreeView1" runat = "Server"> </ASP: Treeview>
```

3) Site map Path

use of this control is very simple. You can add this control to your page. Then view your page in browser. The site map path control displays the navigation path of the current page. The path acts as a click able links to previous pages.

Syntax -

```
<ASP: sitemappath ID = "SiteMapPath1" runat = "Server"> </ASP: sitemappath>
```