Steps for Validation Control

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1. Design a Registration form Default.aspx page with fields Username, choose password, confirm password, age, email id, city and a submit button.
2. Use:
a) RequiredFieldValidator - for Username, Choose password, Age, Email Id fields.
b) CompareValidator - for Confirm password field.
c) RangeValidator - for Age field.
d) RegularExpressionValidator - for Email field.
e) CustomValidator - for City field.

3. Set the properties for:
a) RequiredFieldValidator - ControlToValidate, ErrorMessage.
b) CompareValidator - ControlToCompare, ControlToValidate, ErrorMessage.
c)RangeValidator - ControlToValidate, ErrorMessage, MaximumValue, MinimumValue, Type.
d) RegularExpressionValidator - ControlToValidate, ErrorMessage ,ValidationExpression.
e) CustomValidator - ControlToValidate, ErrorMessage, ClientValidationFunction.

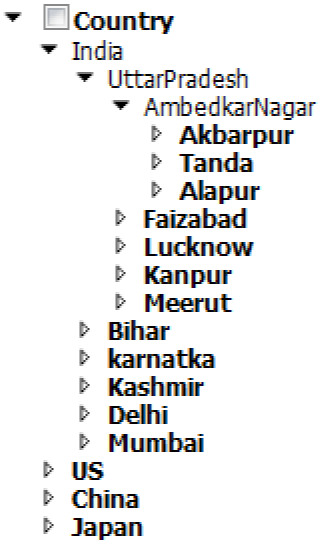
Navigation Controls

1. TreeView control

Step 1: First open your visual studio-->File-->New-->Website-->Select ASP.NET Empty Website -->OK-->open solution explorer-->Add New Web Form-->Drag and Drop TreeView control from Toolbox

Step 2: Now go **properties** of TreeView control-->Click **Nodes**-->Add Root and child Node

Step 3: Now Run the Program(press F5).



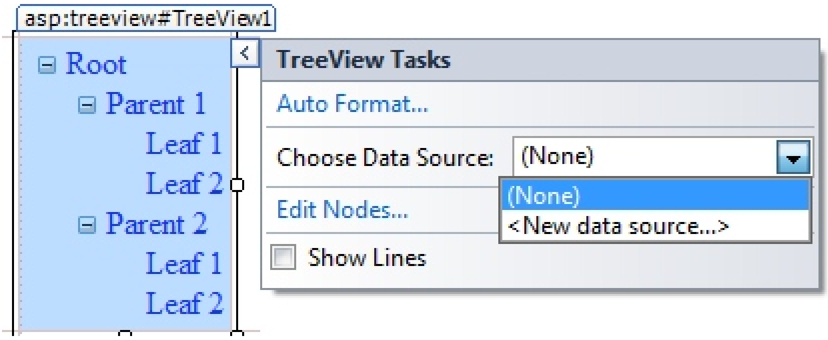
```
▾ □ Country
   ▾ India
      ▾ UttarPradesh
         ▾ AmbedkarNagar
            ▹ Akbarpur
            ▹ Tanda
            ▹ Alapur
         ▹ Faizabad
         ▹ Lucknow
         ▹ Kanpur
         ▹ Meerut
      ▹ Bihar
      ▹ karnatka
      ▹ Kashmir
      ▹ Delhi
      ▹ Mumbai
   ▹ US
   ▹ China
   ▹ Japan
```

Generate TreeView Based On XML Data:-

Step 1: Now First Add A Web Form And A XML File In Your Solution Explorer-->Now Open The XML File And Write The Following Codes As Shown Below-->Now Click Save.

```
<?xml version="1.0" encoding="utf-8" ?>
<application>
 <homepage title="Country" value="default.aspx">
  <page title ="INDIA" value="default.aspx">
  <subpage title ="up" value="default.aspx"/>
  <subpage title ="delhi" value="default.aspx"/>
  <subpage title ="mumbai" value="default.aspx"/>
  <subpage title ="kolkata" value="default.aspx"/>
  </page>
  <page title ="US" value="default.aspx"/>
  <page title ="CHNIA" value="default.aspx"/>
  <page title ="JAPAN" value="default.aspx"/>
  </homepage>
</application>
```

Step 2:Now Drag and drop TreeView control on the Web Form --> Now Choose Data Source from TreeView control-->Select **New data source**



Choose Data Source: (None)

(None)
<New data source...>

Step 3:Now select XML File

Step 4: Now Browse your XML File

Step 5: Now click **Edit TreeNode DataBindings..**-->Select each page one by one -->and click **Add** button -->set **TextField** =**title** from right side for each page-->click **Apply**

Step 6: Now Run the program

1.3) Generate TreeView Based On Sitemap Data:-

Step 1: First Add a Web Form and a SiteMap in Solution Explorer

Step 2: Open **web.sitemap** file and write the following codes. -->**Save**

Step 3: Now drag and drop TreeView control on the Form-->Now **choose Data Source**-->select **New data source**-->Select **SiteMap**

Step 4:Now click OK Button ,you will see following output.

Step 5: Now Run the program(press F5).

2.) The Menu Control:-

Step 1: First Add a New Web Form in solution Explorer -->drag and drop **menu** control on the Form-->now select **Views = static**

Step 2: Now click **Edit Menu Items...**-->Add **parent** and **child** nodes

Step 3: Now Run the program

The SiteMapPath Control:

Step 1: First open your visual studio -->File -->New-->Website-->Select ASP.NET Empty Website-->Open **solution Explorer**-->Add a **Web Form** (SiteMap.aspx)-->Now again Add **Site Map** File in solution Explorer-->open **web.sitmap** file-->write the following codes

Step 2:Now drag and drop **SiteMapPath** control on the web Form (SiteMap.aspx)-->Now drag and drop **HyperLink** control on the Form

Step 3: Now Add three more **Web Form (**page1.aspx ,page2.aspx, page3.aspx**)** in Solution Explorer-->Go **properties** of **HyperLink Button** control -->set **NavigateUrl-**->Write **Text** Information

Step 4: Now Go **page1.aspx** -->drag and drop **SiteMapPath** control and HyperLink control on the Form as shown below-->Set the **NavigateUrl** of each **HyperLink** control

Step 5: Now Go **page2.aspx -->**Same steps perform as step 4.

Step 6: Now Go **page3.aspx -->**Same steps perform as step 4 and step 5.

Step 7: Now Run the program(press F5).

Master Page Practicals

Step 1 Add new file in to our project.

Add the master page into our project.

Right click Project->Add->New item

Step 2

After clicking on new item, Window will open, select Web Form->Web Forms Master Page

Step 3

After clicking the add button, master page 'site1.master' adds to our project.

Click on site1.master into Solution Explorer

Step 4

Design the master page, using HTML.

Step 5

Add web form in to our project.

Right click on the project->Add->New item
Select Web form with the master page.
After clicking on that, add the button Window, open the selected masterpage->site1.master and click OK.

Now, design our homepage.
Finally, our Master page is created; build and run the project.

User Control pracs steps

Steps to Create User Control

1. Go to File -> New -> Project

2. Type the required name for the user control and click Add Button.

3. You will get the markup for SampleUserControl.ascx shown below.

```
<%@ Control Language="C#"
    AutoEventWireup="true"
    CodeBehind="SampleUserControl.ascx.cs"
    Inherits="UserControlSample.SampleUserControl" %>
```

5. Now add you controls into the User controls. Controls like TextBox and Label show a simple example. Note Controls can be placed just below the Control directive.

6. Register the User control in a web page. Use just next to page Directive.

```
<%@ Register
    Src="SampleUserControl.ascx"
```

```
                    TagName="MyControl"
                    TagPrefix="uc1" %>
```

Src - User Control page name with extension.
TagName - Tag name can be any name, this is user defined.
TagPrefix - Can be any prefix, this is user defined.

7. Register and add a user control in a web page then run the default.aspx page

8. Run the website

Ad rotator Steps

Let's start with an Empty Web application in Visual Studio.

Go to Project > Add New Item (Ctrl+Shift+A); select "Data" from the left and add a XML file, name it "AdRotator.xml".

Now we will write our XML file; it begins and ends with an <Advertisements> tag. Inside the <Advertisements> tag there may be several <Ad> tags which defines each ad. The predefined elements inside the <Ad> tag are listed below:

Element	**Description**
<ImageUrl>	Optional. The path to the image file
<NavigateUrl>	Optional. The URL to link to if the user clicks the ad
<AlternateText>	Optional. An alternate text for the image
<Keyword>	Optional. A category for the ad
<Impressions>	Optional. The display rates in percent of the hits

Now, from the Solution Explorer open AdRotator.aspx page. It will contain some default code. We will add the AdRotator control now either by dragging it from the Toolbox or writing its code. We will also use some attributes for it like Advertisement File (which specifies the path to the XML file that contains the ad information) and Target (specifies where to open the URL).

Compile and build your project and see if it works.

Web server controls

Listbox

Step 1) The first step is to drag the list box control on to the Web Form from the toolbox

Step 2) Once you drag the listbox to the form, a separate side menu will appear. In this menu choose the 'Edit Items' menu.

Step 3) You will now be presented with a dialog box in which you can add the list items to the listbox.

1. Click on the Add button to add a list item.
2. Give a name for the text value of the list item – In our case Mumbai. Repeat steps 1 and 2 to add list items for Mangalore and Hyderabad.
3. Click on the OK button

Step 4) Go to the properties window and change the ID property value of the control to lstLocation.

RadioButton

Step 1) The first step is to drag the 'radiobutton' control onto the Web Form from the toolbox. (see image below). Make sure to add 2 radio buttons, one for the option of 'Male' and the other for 'Female.'

Step 2) Once the Radiobutton has been added, change the 'text' property.

- Go to the properties window by clicking on the 'Radiobutton control'.
- Change the text property of the Radio button to 'Male'.
- Repeat the same step to change it to 'Female.'
- Also, change the ID properties of the respective controls to rdMale and rdFemale.

Checkbox

Step 1) The first step is to drag the checkbox control onto the Web Form from the toolbox

Step 2) Once the Checkboxes have been added, change the checkbox id property to 'chkASP'.

- Go to the properties window by clicking on the Checkbox control.
- Change the ID properties of the respective controls to 'chkC' and 'chkASP'.

Also, change the text property of the Checkbox control to 'C#'. Do the same for the other Checkbox control and change it to 'ASP.Net'.

1. Change the ID property of the checkbox to 'chkASP'

2. ______Change the ID property of the checkbox to chkC

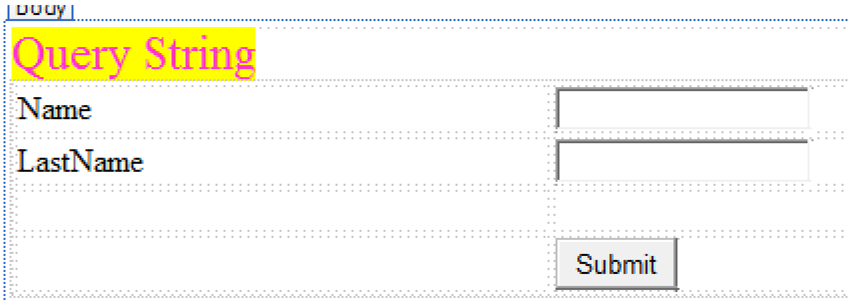
State Management

Querystring:

creating a website, click on the file, go to new and click on the website.

Now we add the two web forms to the website.

We design the web form as in the following,



After designing the web form, we need to write the following code in the button click.

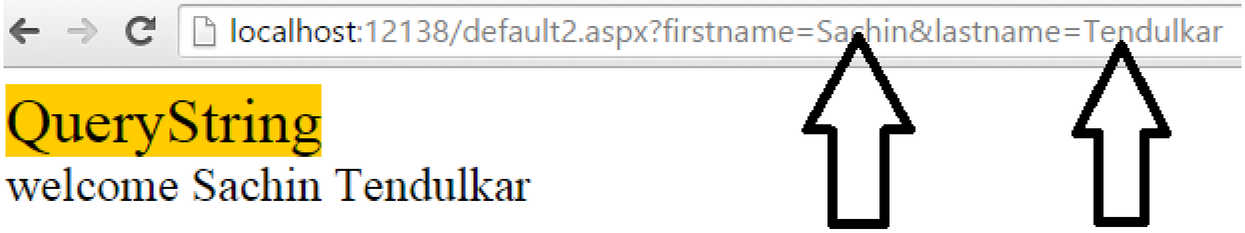
```
protected void Button1_Click(object sender, EventArgs e)
{


    Response.Redirect("default2.aspx ?firstname=" + TextBox1.Text
 + "&lastname=" + TextBox2.Text);
}
```

In the second web form we take the one lable for displaying the values of the first page. For receiving the value from the first page we write the following code on the page_load of the second page.

```
protected void Page_Load(object sender, EventArgs e)
{
     string firstname = Request.QueryString["firstname"];
     string lastname = Request.QueryString["lastname"];
     Label1.Text = "welcome" + firstname + " " + lastname;
}
```

Now we need to execute the website by using the F5 key. After execution we give the input in the textboxes like this,

After giving the values, we click on the Submit button then the following window will appear.



localhost:12138/default2.aspx?firstname=Sachin&lastname=Tendulkar

QueryString

welcome Sachin Tendulkar

Viewstate

Open Visual Studio and create a webpage. Drag and drop one TextBox and one button control to that page.

Right-click on the TextBox and select EnableViewState to false and ViewStateMode="Disabled" for TextBox.

Run the page. Then enter some value inside the TextBox and click on the button to submit the page.

Cookie

How to create a cookie?

It is really easy to create a cookie in the Asp.Net with help of Response object or HttpCookie

Example 1

```
HttpCookie userInfo = new HttpCookie("userInfo");
userInfo["UserName"] = "Annathurai";
userInfo["UserColor"] = "Black";
userInfo.Expires.Add(new TimeSpan(0, 1, 0));
Response.Cookies.Add(userInfo);
```

Example 2

```
Response.Cookies["userName"].Value = "Annathurai";
Response.Cookies["userColor"].Value = "Black";
```

How to retrieve from cookie?

It is easy way to retrieve cookie value form cookies with the help of Request object.

Example 1

```
string User_Name = string.Empty;
string User_Color = string.Empty;
User_Name = Request.Cookies["userName"].Value;
User_Color = Request.Cookies["userColor"].Value;
```

Example 2

```
string User_name = string.Empty;
string User_color = string.Empty;
HttpCookie reqCookies = Request.Cookies["userInfo"];
if (reqCookies != null)
{
    User_name = reqCookies["UserName"].ToString();
    User_color = reqCookies["UserColor"].ToString();
}
```

Database

Gridview

1. Create a web page with grid view control
2. Connect grid view to datasource control
3. Select Edit Columns option from grid view tasks
4. In the next window from Available Fields options select the HyperLinkField and Add it to Selected Field
5. Navigate the HyperLinkField to the top of the selected fileds using arrow option.
6. Remove repeated or unwanted columns from from selected fields.
7. Select the HyperLink filed from selected fields and change DataTextFiled property to Id. Press ok and run the application.