* Install-Package AspNet.ScriptManager.jQuery

using System.Web.Configuration;

using System.Data;

using System.Data.SqlClient;

SqlConnection con = new SqlConnection(WebConfigurationManager.ConnectionStrings["NameOfConString"].ConnectionString);

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Using a SQL Data Reader</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<asp:Literal ID="ltlOutput" runat="server"></asp:Literal>

<p><a href="Default.aspx">Default.aspx</a></p>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Web.Configuration; // Added for WebConfigurationManager

using System.Data.SqlClient; // Added for SqlConnection, SqlCommand and SqlDataReader

public partial class sqldatareader : System.Web.UI.Page

{

/// <summary>

/// Loop through all current admissions and count the number of patients on each floor.

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

if (!IsPostBack)

{

int floor1 = 0, floor2 = 0, floor3 = 0, other = 0, total;

String con\_string = WebConfigurationManager.ConnectionStrings["CHDBConnectionString"].ConnectionString;

SqlConnection con = new SqlConnection(con\_string);

SqlCommand cmd = new SqlCommand("SELECT \* FROM Admissions WHERE DischargeDate IS NULL", con);

ltlOutput.Text = "<h1>Using a SQL Data Reader</h1>\n";

try

{

using (con)

{

con.Open();

SqlDataReader reader = cmd.ExecuteReader();

while (reader.Read())

{

String floor = reader["NursingUnitID"].ToString().Substring(0, 1);

if (floor == "1")

floor1++;

else if (floor == "2")

floor2++;

else if (floor == "3")

floor3++;

else

other++;

}

reader.Close();

}

total = floor1 + floor2 + floor3 + other;

// \n is a newline character to enhance the readability of the HTML

ltlOutput.Text += "<h2>Current Patient Admissions</h2>\n";

ltlOutput.Text += "<table>\n";

ltlOutput.Text += "<tr><td>Patients on 1st floor</td><td style='text-align:right;'>" + floor1.ToString() + "</td></tr>\n";

ltlOutput.Text += "<tr><td>Patients on 2nd floor</td><td style='text-align:right;'>" + floor2.ToString() + "</td></tr>\n";

ltlOutput.Text += "<tr><td>Patients on 3rd floor</td><td style='text-align:right;'>" + floor3.ToString() + "</td></tr>\n";

ltlOutput.Text += "<tr><td>Patients in special units</td><td style='text-align:right;'>" + other.ToString() + "</td></tr>\n";

ltlOutput.Text += "<tr><td><b>Total patients</b></td><td style='text-align:right;'><b>" + total.ToString() + "</b></td></tr>\n";

ltlOutput.Text += "</table>\n";

}

catch (Exception ex)

{

ltlOutput.Text += "<br /><br /><span id=\"lblError\" style=\"color:Red;\">" + ex.Message + "</span>";

}

}

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="cancel\_an\_update.aspx.cs" Inherits="cancel\_an\_update" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Cancelling an Update</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<h1>Cancelling an Update</h1>

<asp:DetailsView

ID="dtlDepartments"

runat="server"

AutoGenerateRows="False"

DataKeyNames="DepartmentID"

DataSourceID="sqlDepartments"

AllowPaging="True">

<Fields>

<asp:BoundField DataField="DepartmentID" HeaderText="DepartmentID" ReadOnly="True" SortExpression="DepartmentID"></asp:BoundField>

<asp:BoundField DataField="DepartmentName" HeaderText="DepartmentName" SortExpression="DepartmentName"></asp:BoundField>

<asp:BoundField DataField="ManagerFirstName" HeaderText="ManagerFirstName" SortExpression="ManagerFirstName"></asp:BoundField>

<asp:BoundField DataField="ManagerLastName" HeaderText="ManagerLastName" SortExpression="ManagerLastName"></asp:BoundField>

<asp:CommandField ShowEditButton="True" />

</Fields>

</asp:DetailsView>

<p><asp:Label ID="lblError" runat="server" EnableViewState="false" ForeColor="Red"></asp:Label></p>

<p><a href="Default.aspx">Default.aspx</a></p>

<asp:SqlDataSource

ID="sqlDepartments"

runat="server"

ConnectionString='<%$ ConnectionStrings:CHDBConnectionString %>'

SelectCommand="SELECT Departments.\* FROM Departments"

UpdateCommand="UPDATE Departments SET DepartmentName = @DepartmentName, ManagerFirstName = @ManagerFirstName, ManagerLastName = @ManagerLastName WHERE (DepartmentID = @DepartmentID)"

OnUpdating="sqlDepartments\_Updating">

<UpdateParameters>

<asp:Parameter Name="DepartmentName"></asp:Parameter>

<asp:Parameter Name="ManagerFirstName"></asp:Parameter>

<asp:Parameter Name="ManagerLastName"></asp:Parameter>

<asp:Parameter Name="DepartmentID"></asp:Parameter>

</UpdateParameters>

</asp:SqlDataSource>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data.SqlClient; // Added for SqlParameter

public partial class cancel\_an\_update : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

/// <summary>

/// If any of the parameters in the update are empty, inform the user that all

/// fields are required and cancel the update.

/// </summary>

/// <param name="sender">srcDepartment</param>

/// <param name="e">Data source updating event data</param>

protected void sqlDepartments\_Updating(object sender, SqlDataSourceCommandEventArgs e)

{

foreach (SqlParameter parm in e.Command.Parameters)

{

if (parm.Value == null)

{

lblError.Text = "All fields are required!";

e.Cancel = true;

}

}

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="data\_reader.aspx.cs" Inherits="data\_reader" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>SQL Data Reader</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<h1>DataSource in DataReader Mode</h1>

<asp:GridView ID="grdPurchases" runat="server" AutoGenerateColumns="False" DataSourceID="sqlPurchases">

<Columns>

<asp:BoundField DataField="OrderDate" DataFormatString="{0:d}" HeaderText="OrderDate" SortExpression="OrderDate" />

<asp:BoundField DataField="DepartmentName" HeaderText="DepartmentName" SortExpression="DepartmentName" />

<asp:BoundField DataField="VendorName" HeaderText="VendorName" SortExpression="VendorName" />

<asp:BoundField DataField="TotalAmount" HeaderText="TotalAmount" SortExpression="TotalAmount" />

<asp:BoundField DataField="OrderStatus" HeaderText="OrderStatus" SortExpression="OrderStatus" />

</Columns>

</asp:GridView>

<p><a href="Default.aspx">Default.aspx</a></p>

<asp:SqlDataSource ID="sqlPurchases" runat="server" ConnectionString="<%$ ConnectionStrings:CHDBConnectionString %>" DataSourceMode="DataReader" SelectCommand="SELECT PurchaseOrders.OrderDate, Departments.DepartmentName, Vendors.VendorName, PurchaseOrders.TotalAmount, PurchaseOrders.OrderStatus FROM PurchaseOrders INNER JOIN Departments ON PurchaseOrders.DepartmentID = Departments.DepartmentID INNER JOIN Vendors ON PurchaseOrders.VendorID = Vendors.VendorID"></asp:SqlDataSource>

</div>

</form>

</body>

</html>

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="gridview\_error.aspx.cs" Inherits="gridview\_error" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>GridView Error Handling</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<h1>GridView Error Handling</h1>

<asp:GridView

ID="grdDepartments"

runat="server"

AutoGenerateColumns="False"

DataKeyNames="DepartmentID"

DataSourceID="sqlDepartments"

OnRowUpdated="grdDepartments\_RowUpdated">

<Columns>

<asp:CommandField ShowEditButton="True" />

<asp:BoundField DataField="DepartmentID" HeaderText="DepartmentID" ReadOnly="True" SortExpression="DepartmentID" />

<asp:BoundField DataField="DepartmentName" HeaderText="DepartmentName" SortExpression="DepartmentName" />

<asp:BoundField DataField="ManagerFirstName" HeaderText="ManagerFirstName" SortExpression="ManagerFirstName" />

<asp:BoundField DataField="ManagerLastName" HeaderText="ManagerLastName" SortExpression="ManagerLastName" />

</Columns>

</asp:GridView>

<p>To simulate a run-time error, there is an error in the SQL UpdateCommand in the DataSource.<br />

The error is handled in GridView RowUpdated event.</p>

<p><a href="Default.aspx">Default.aspx</a></p>

<p><asp:Label ID="lblError" runat="server" ForeColor="Red"></asp:Label></p>

<asp:SqlDataSource

ID="sqlDepartments"

runat="server"

ConnectionString='<%$ ConnectionStrings:CHDBConnectionString %>'

SelectCommand="SELECT \* FROM [Departments]"

UpdateCommand="UPDATE [TableThatDoesNotExist] SET [DepartmentName] = @DepartmentName, [ManagerLastName] = @ManagerLastName , [ManagerFirstName] = @ManagerFirstName WHERE [DepartmentID] = @DepartmentID">

</asp:SqlDataSource>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class gridview\_error : System.Web.UI.Page

{

/// <summary>

/// Reset error label.

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

lblError.Text = "";

}

/// <summary>

/// If an exception occurs during the update, pass the error message to the user

/// and mark the exception as handled.

/// </summary>

/// <param name="sender">grdDepartments</param>

/// <param name="e">GridView updated event data</param>

protected void grdDepartments\_RowUpdated(object sender, GridViewUpdatedEventArgs e)

{

if (e.Exception != null)

{

lblError.Text = e.Exception.Message;

e.ExceptionHandled = true;

}

}

}

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title>Repeater with DataBinding</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<h1>Repeater with DataBinding</h1>

<a href="Default.aspx">Default.aspx</a><br /><br />

<asp:SqlDataSource

ID="srcMedications"

runat="server"

ConnectionString="<%$ ConnectionStrings:CHDBConnectionString %>"

SelectCommand="SELECT [MedicationID], [MedicationDescription] FROM [Medications] ORDER BY [MedicationDescription]">

</asp:SqlDataSource>

<table>

<asp:Repeater

ID="rptMedication"

runat="server"

DataSourceID="srcMedications">

<ItemTemplate>

<tr>

<td>

<asp:HyperLink ID="HyperLink1"

Text='<%# Eval("MedicationDescription") %>'

NavigateUrl='<%# Eval("MedicationID", "medication\_detail.aspx?medicationid={0}") %>'

runat="server" />

</td>

</tr>

</ItemTemplate>

</asp:Repeater>

</table>

</div>

</form>

</body>

</html>

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="medication\_detail.aspx.cs" Inherits="medication\_detail" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Medication Detail</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<asp:Repeater ID="Repeater1" runat="server" DataSourceID="sqlMedication">

<ItemTemplate>

<h1><%# Eval("MedicationDescription") %></h1>

</ItemTemplate>

</asp:Repeater>

<asp:DetailsView ID="DetailsView1" runat="server" AutoGenerateRows="False" DataKeyNames="MedicationID" DataSourceID="sqlMedication" Height="50px" EmptyDataText="No medication found">

<Fields>

<asp:BoundField DataField="MedicationID" HeaderText="MedicationID" ReadOnly="True" SortExpression="MedicationID" />

<asp:BoundField DataField="MedicationDescription" HeaderText="MedicationDescription" SortExpression="MedicationDescription" />

<asp:BoundField DataField="MedicationCost" HeaderText="MedicationCost" SortExpression="MedicationCost" />

<asp:BoundField DataField="PackageSize" HeaderText="PackageSize" SortExpression="PackageSize" />

<asp:BoundField DataField="Strength" HeaderText="Strength" SortExpression="Strength" />

<asp:BoundField DataField="Sig" HeaderText="Sig" SortExpression="Sig" />

<asp:BoundField DataField="UnitsUsedYTD" HeaderText="UnitsUsedYTD" SortExpression="UnitsUsedYTD" />

</Fields>

</asp:DetailsView>

<p><a href="medication.aspx">Return to Medication</a></p>

<asp:SqlDataSource ID="sqlMedication" runat="server" ConnectionString="<%$ ConnectionStrings:CHDBConnectionString %>" SelectCommand="SELECT [MedicationID], [MedicationDescription], [MedicationCost], [PackageSize], [Strength], [Sig], [UnitsUsedYTD] FROM [Medications] WHERE ([MedicationID] = @MedicationID)">

<SelectParameters>

<asp:QueryStringParameter Name="MedicationID" QueryStringField="medicationid" Type="Int32" />

</SelectParameters>

</asp:SqlDataSource>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class medication\_detail : System.Web.UI.Page

{

/// <summary>

/// Ensure that query string is an int

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

string medicationid = Request["medicationid"];

int medicationid\_int;

if (!Int32.TryParse(medicationid, out medicationid\_int))

Response.Redirect("medication\_detail.aspx?medicationid=0");

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="programmatic\_insert.aspx.cs" Inherits="programmatic\_insert" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Programmatic Insert</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server" defaultfocus="txtNursingUnitID">

<div>

<h1>Programmatic Insert</h1>

<table>

<tr>

<td>Nursing Unit ID:</td>

<td><asp:TextBox ID="txtNursingUnitID" runat="server" /></td>

</tr>

<tr>

<td>Specialty:</td>

<td><asp:TextBox ID="txtSpecialty" runat="server" /></td>

</tr>

<tr>

<td>Manager First Name:</td>

<td><asp:TextBox ID="txtManagerFirstName" runat="server" /></td>

</tr>

<tr>

<td>Manager Last Name:</td>

<td><asp:TextBox ID="txtManagerLastName" runat="server" /></td>

</tr>

<tr>

<td>Beds:</td>

<td><asp:TextBox ID="txtBeds" runat="server" /></td>

</tr>

<tr>

<td>Extension:</td>

<td><asp:TextBox ID="txtExtension" runat="server" /></td>

</tr>

</table>

<asp:Button

ID="btnCreateNew"

runat="server"

Text="Create New Nursing Unit"

OnClick="btnCreateNew\_Click" />

<p><asp:Label ID="lblError" runat="server" EnableViewState="False" ForeColor="Red"></asp:Label></p>

<p><a href="Default.aspx">Default.aspx</a></p>

<asp:SqlDataSource

ID="sqlNursingUnits"

runat="server"

ConnectionString='<%$ ConnectionStrings:CHDBConnectionString %>'

InsertCommand="INSERT INTO NursingUnits(NursingUnitID, Specialty, ManagerFirstName, ManagerLastName, Beds, Extension) VALUES (@NursingUnitID, @Specialty, @ManagerFirstName, @ManagerLastName, @Beds, @Extension)"

SelectCommand="SELECT \* FROM NursingUnits">

<InsertParameters>

<asp:Parameter Name="NursingUnitID"></asp:Parameter>

<asp:Parameter Name="Specialty"></asp:Parameter>

<asp:Parameter Name="ManagerFirstName"></asp:Parameter>

<asp:Parameter Name="ManagerLastName"></asp:Parameter>

<asp:Parameter Name="Beds"></asp:Parameter>

<asp:Parameter Name="Extension"></asp:Parameter>

</InsertParameters>

</asp:SqlDataSource>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class programmatic\_insert : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

/// <summary>

/// Populate the data source insert parameters, call the insert method, then re-direct

/// to a page with a completion message passing the nursing unit as a query string.

/// </summary>

/// <param name="sender">btnCreateNew</param>

/// <param name="e">Event data</param>

protected void btnCreateNew\_Click(object sender, EventArgs e)

{

try

{

sqlNursingUnits.InsertParameters["NursingUnitID"].DefaultValue = txtNursingUnitID.Text;

sqlNursingUnits.InsertParameters["Specialty"].DefaultValue = txtSpecialty.Text;

sqlNursingUnits.InsertParameters["ManagerFirstName"].DefaultValue = txtManagerFirstName.Text;

sqlNursingUnits.InsertParameters["ManagerLastName"].DefaultValue = txtManagerLastName.Text;

sqlNursingUnits.InsertParameters["Beds"].DefaultValue = txtBeds.Text;

sqlNursingUnits.InsertParameters["Extension"].DefaultValue = txtExtension.Text;

sqlNursingUnits.Insert();

Response.Redirect("programmatic\_insert\_results.aspx?nursing\_unit\_id=" + txtNursingUnitID.Text);

}

catch (Exception ex)

{

lblError.Text = ex.Message;

}

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="programmatic\_insert\_results.aspx.cs" Inherits="programmatic\_insert\_results" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Programmatic Insert</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<p><asp:Label ID="lblResults" runat="server" Font-Size="Large"></asp:Label></p>

<p><a href="programmatic\_insert.aspx">Return to programmatic\_insert.aspx</a></p>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class programmatic\_insert\_results : System.Web.UI.Page

{

/// <summary>

/// Populate a label with a query string.

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

if (!IsPostBack)

{

lblResults.Text = "Nursing Unit " + Request["nursing\_unit\_id"] + " created.";

}

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="stored\_procedure.aspx.cs" Inherits="stored\_procedure" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Stored Procedure</title>

<link href="StyleSheet.css" rel="stylesheet" type="text/css" />

</head>

<body>

<form id="form1" runat="server">

<div>

<h1>GridView populated by stored procedure</h1>

<asp:GridView ID="grdPatientCount" runat="server" AutoGenerateColumns="False" DataSourceID="sqlPatientCount">

<Columns>

<asp:BoundField DataField="NursingUnitID" HeaderText="Nursing Unit" SortExpression="NursingUnitID" />

<asp:BoundField DataField="Specialty" HeaderText="Specialty" SortExpression="Specialty" />

<asp:BoundField DataField="PatientCount" HeaderText="Patients" ReadOnly="True" SortExpression="PatientCount">

<ItemStyle HorizontalAlign="Right" />

</asp:BoundField>

</Columns>

</asp:GridView>

<p><a href="Default.aspx">Default.aspx</a></p>

<asp:SqlDataSource ID="sqlPatientCount" runat="server" ConnectionString="<%$ ConnectionStrings:CHDBConnectionString %>" SelectCommand="CountPatientsByNursingUnit" SelectCommandType="StoredProcedure"></asp:SqlDataSource>

</div>

</form>

</body>

</html>

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="grid\_view.aspx.cs" Inherits="grid\_view" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Advanced GridView</title>

<link href="StyleSheet.css" rel="stylesheet" />

</head>

<body>

<form id="form1" runat="server">

<div>

<h1>GridView Row Highlighting and TemplateFields</h1>

<asp:GridView ID="grdAdmissions" runat="server" AllowPaging="True" AutoGenerateColumns="False" CellPadding="4" DataKeyNames="PatientID,AdmissionDate" DataSourceID="sqlAdmissions" EmptyDataText="No patients currently admitted" ForeColor="#333333" GridLines="None" OnRowDataBound="grdAdmissions\_RowDataBound" PageSize="20">

<AlternatingRowStyle BackColor="White" />

<Columns>

<asp:CommandField ShowEditButton="True" />

<asp:BoundField DataField="PatientID" HeaderText="PatientID" ReadOnly="True" SortExpression="PatientID" />

<asp:BoundField DataField="AdmissionDate" HeaderText="AdmissionDate" ReadOnly="True" SortExpression="AdmissionDate" />

<asp:BoundField DataField="PatientName" HeaderText="PatientName" ReadOnly="True" SortExpression="PatientName" />

<asp:TemplateField HeaderText="NursingUnitID" SortExpression="NursingUnitID">

<EditItemTemplate>

<asp:DropDownList ID="DropDownList1" runat="server" DataSourceID="sqlNursingUnits" DataTextField="NursingUnitID" DataValueField="NursingUnitID" SelectedValue='<%# Bind("NursingUnitID") %>'>

</asp:DropDownList>

</EditItemTemplate>

<ItemTemplate>

<asp:Label ID="Label1" runat="server" Text='<%# Bind("NursingUnitID") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:TemplateField HeaderText="Room" SortExpression="Room">

<EditItemTemplate>

<asp:TextBox ID="TextBox1" runat="server" Text='<%# Bind("Room") %>'></asp:TextBox>

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ControlToValidate="TextBox1" ErrorMessage="RequiredFieldValidator"><b>(Required)</b></asp:RequiredFieldValidator>

</EditItemTemplate>

<ItemTemplate>

<asp:Label ID="Label2" runat="server" Text='<%# Bind("Room") %>'></asp:Label>

</ItemTemplate>

</asp:TemplateField>

<asp:BoundField DataField="Bed" HeaderText="Bed" SortExpression="Bed" />

</Columns>

<FooterStyle BackColor="#1C5E55" Font-Bold="True" ForeColor="White" />

<HeaderStyle BackColor="#1C5E55" Font-Bold="True" ForeColor="White" />

<PagerSettings FirstPageText="First" LastPageText="Last" Mode="NextPreviousFirstLast" NextPageText="Next" Position="TopAndBottom" PreviousPageText="Prev" />

<PagerStyle BackColor="#666666" ForeColor="White" HorizontalAlign="Center" />

<RowStyle BackColor="#E3EAEB" />

<SelectedRowStyle BackColor="#C5BBAF" Font-Bold="True" ForeColor="#333333" />

<SortedAscendingCellStyle BackColor="#F8FAFA" />

<SortedAscendingHeaderStyle BackColor="#246B61" />

<SortedDescendingCellStyle BackColor="#D4DFE1" />

<SortedDescendingHeaderStyle BackColor="#15524A" />

</asp:GridView>

<asp:SqlDataSource

ID="sqlAdmissions"

runat="server"

ConnectionString="<%$ ConnectionStrings:CHDBConnectionString %>"

SelectCommand="SELECT a.PatientID, AdmissionDate, FirstName + ' ' + LastName AS PatientName, NursingUnitID, Room, Bed FROM Admissions a INNER JOIN Patients p ON a.PatientID = p.PatientID WHERE DischargeDate IS NULL"

UpdateCommand="UPDATE Admissions SET NursingUnitID = @NursingUnitID, Room = @Room, Bed = @Bed WHERE PatientID = @PatientID AND AdmissionDate = @AdmissionDate">

<UpdateParameters>

<asp:Parameter Name="NursingUnitID" />

<asp:Parameter Name="Room" />

<asp:Parameter Name="Bed" />

<asp:Parameter Name="PatientID" />

<asp:Parameter Name="AdmissionDate" />

</UpdateParameters>

</asp:SqlDataSource>

<asp:SqlDataSource

ID="sqlNursingUnits"

runat="server"

ConnectionString="<%$ ConnectionStrings:CHDBConnectionString %>"

SelectCommand="SELECT NursingUnitID FROM NursingUnits">

</asp:SqlDataSource>

<p><a href="Default.aspx">Default.aspx</a></p>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class grid\_view : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

/// <summary>

/// Highlight admission records in yellow if the nursing unit doesn't start

/// with a 1, 2 or 3.

/// </summary>

/// <param name="sender">grdAdmissions</param>

/// <param name="e">Grid view row event data</param>

protected void grdAdmissions\_RowDataBound(object sender, GridViewRowEventArgs e)

{

if (e.Row.RowType == DataControlRowType.DataRow)

{

String floor = DataBinder.Eval(e.Row.DataItem, "NursingUnitID").ToString().Substring(0, 1);

if (floor != "1" && floor != "2" && floor != "3")

e.Row.BackColor = System.Drawing.Color.Yellow;

}

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="\_Default" Trace="false" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Introduction to ASP.NET</title>

<style type="text/css">

.labelStyle

{

color: #006600;

background-color: #99CCFF;

border: medium Solid #006600;

font-family: Arial, Helvetica, sans-serif;

}

</style>

</head>

<body>

<form id="form1" runat="server">

<div>

<table>

<tr>

<td>

Date and time: <asp:Label ID="lblNow" runat="server"></asp:Label><br />

Date: <span id="spnDate" runat="server" /><br />

Time: <span id="spnTime" runat="server" />

</td>

<td>

<asp:Button ID="btnClick" runat="server" Text="Click Here" OnClick="btnClick\_Click" /><br />

<asp:Label ID="lblButtonClick" runat="server"></asp:Label>

</td>

<td>

First counter: <asp:Button ID="btnCounter1" runat="server" Text="0" OnClick="btnCounter\_Click" /><br />

Second counter: <asp:Button ID="btnCounter2" runat="server" Text="0" OnClick="btnCounter\_Click" />

</td>

</tr>

<tr>

<td>

<asp:ImageButton ID="btnTotoro" runat="server" ImageUrl="~/images/totoro.png" OnClick="btnTotoro\_Click" /><br />

X Coordinate: <asp:Label ID="lblX" runat="server"></asp:Label><br />

Y Coordinate: <asp:Label ID="lblY" runat="server" EnableViewState="false"></asp:Label>

</td>

<td>

<asp:Button ID="btnPageEvents" runat="server" OnClick="btnPageEvents\_Click" Text="Page Events" /><br />

<asp:Label ID="lblPageEvents" runat="server"></asp:Label>

</td>

<td>

<asp:DropDownList ID="ddlPostBack" runat="server"

onselectedindexchanged="ddlPostBack\_SelectedIndexChanged">

</asp:DropDownList><br />

<asp:Button ID="btnPostBack" runat="server" Text="Select" OnClick="btnPostBack\_Click" /><br />

<asp:Label ID="lblPostBack" runat="server"></asp:Label>

</td>

</tr>

<tr>

<td>

<asp:Label ID="Label1" runat="server" BackColor="Yellow" BorderColor="Red" BorderStyle="Solid"

BorderWidth="2px" ForeColor="Red" Text="Formatted Label"></asp:Label><br /><br />

<asp:Label ID="Label2" runat="server" Text="Style Formatted Label" CssClass="labelStyle"></asp:Label>

</td>

<td>

</td>

<td>

<asp:HyperLink ID="HyperLink1" runat="server" NavigateUrl="~/page1.aspx">Visit Page 1</asp:HyperLink>

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Collections; // Added for ArrayList

public partial class \_Default : System.Web.UI.Page

{

/// <summary>

/// The Page\_Load routine is called every time

/// </summary>

/// <param name="sender">The object that raised the event, in this case the Page object that represents .aspx web page</param>

/// <param name="e">Object that contains event data, most event handlers don't use this data</param>

protected void Page\_Load(object sender, EventArgs e)

{

string host\_name = Request.Url.Host;

lblNow.Text = DateTime.Now.ToString();

spnDate.InnerText = DateTime.Now.ToShortDateString();

spnTime.InnerText = DateTime.Now.ToShortTimeString();

lblPageEvents.Text = "Page\_Load";

// This only needs to be done once

if (!Page.IsPostBack)

{

// Create collection of items

ArrayList items = new ArrayList();

items.Add("Apples");

items.Add("Bananas");

items.Add("Lemons");

items.Add("Strawberries");

// Bind to drop down list

ddlPostBack.DataSource = items;

ddlPostBack.DataBind();

// This information will be available to other pages

Session["items"] = "fruits";

Session["item\_count"] = items.Count;

}

// Divide by 0

int i = 0;

//i = 5 / i;

}

/// <summary>

/// Event handler for Click button

/// </summary>

/// <param name="sender">btnClick</param>

/// <param name="e">Event data</param>

protected void btnClick\_Click(object sender, EventArgs e)

{

lblButtonClick.Text = "Thank you for clicking the button";

btnClick.Visible = false;

lblPageEvents.Text += "<br />btnClick\_Click";

}

/// <summary>

/// Event handler for Counter1 and Counter2 buttons

/// </summary>

/// <param name="sender">btnCounter1 or btnCounter2</param>

/// <param name="e">Event data</param>

protected void btnCounter\_Click(object sender, EventArgs e)

{

// Since this handler is called by two different buttons and the text

// of the button needs to be accessed, the sender object must be cast

// to a button type

Button btn = (Button)sender;

btn.Text = (Int32.Parse(btn.Text) + 1).ToString();

lblPageEvents.Text += "<br />btnCounter\_Click";

}

/// <summary>

/// Event handler for Totoro image button

/// </summary>

/// <param name="sender">btnTotoro</param>

/// <param name="e">Image button provides more event data, specifically

/// the X and Y co-ordinates of the user click</param>

protected void btnTotoro\_Click(object sender, ImageClickEventArgs e)

{

lblX.Text = e.X.ToString();

lblY.Text = e.Y.ToString();

lblPageEvents.Text += "<br />btnTotoro\_Click";

}

/// <summary>

/// Event handler for Page Events button

/// </summary>

/// <param name="sender">btnPageEvents</param>

/// <param name="e">Event data</param>

protected void btnPageEvents\_Click(object sender, EventArgs e)

{

lblPageEvents.Text += "<br />btnPageEvents\_Click";

}

/// <summary>

/// Event handler for Select button

/// </summary>

/// <param name="sender">btnPostBack</param>

/// <param name="e">Event data</param>

protected void btnPostBack\_Click(object sender, EventArgs e)

{

lblPostBack.Text = "You selected " + ddlPostBack.SelectedItem.Text + " which is index " + ddlPostBack.SelectedIndex.ToString();

lblPageEvents.Text += "<br />btnPostBack\_Click";

}

/// <summary>

/// Event handler for Post Back drop down list

/// </summary>

/// <param name="sender">ddlPostBack</param>

/// <param name="e">Event data</param>

protected void ddlPostBack\_SelectedIndexChanged(object sender, EventArgs e)

{

lblPageEvents.Text += "<br />ddlPostBack\_SelectedIndexChanged";

}

/// <summary>

/// The Page\_Prerender event occurs on every page cycle after any control events

/// </summary>

protected void Page\_Prerender()

{

lblPageEvents.Text += "<br />Page\_PreRender";

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="page1.aspx.cs" Inherits="page1" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

<form id="form1" runat="server">

<div>

<p><asp:Label ID="lblOutput" runat="server"></asp:Label></p>

<p><a href="Default.aspx">Return to Default.aspx</a></p>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class page1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

String items = Session["items"].ToString();

int cnt = (int)Session["item\_count"];

lblOutput.Text = String.Format("There are {0} {1} in the array list.", cnt, items);

}

}

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" Inherits="\_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<style type="text/css">

.labelStyle

{

color: #000080;

background-color: #00FFFF;

border: 2px solid #000080;

}

.resultStyle

{

font-size: x-large;

}

</style>

<title><asp:Literal id="ltlTitle" runat="server" /></title>

</head>

<body>

<form id="form1" runat="server" defaultbutton="btnSearch">

<div>

<h1>Standard Controls</h1>

<table>

<tr>

<td>

<asp:Label ID="lblFormatted" runat="server" Text="Formatted Label" BackColor="Yellow" BorderColor="Red" BorderStyle="Solid" BorderWidth="2px" ForeColor="Red"></asp:Label><br /><br />

<asp:Label ID="lblStyleFormatted" runat="server" Text="Style Formatted Label" CssClass="labelStyle"></asp:Label></td>

<td>

<table>

<tr>

<td><asp:Label ID="lblFirstName" runat="server" AssociatedControlID="txtFirstName" Text="First Name:"></asp:Label></td>

<td><asp:TextBox ID="txtFirstName" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblLastName" runat="server" AssociatedControlID="txtLastName" Text="Last Name:"></asp:Label></td>

<td><asp:TextBox ID="txtLastName" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblFavColour" runat="server" AssociatedControlID="txtFavColour" Text="Favourite Colour:"></asp:Label></td>

<td><asp:TextBox ID="txtFavColour" runat="server" TextMode="Color"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblPassword" runat="server" AssociatedControlID="txtPassword" Text="Password:"></asp:Label></td>

<td><asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblDate" runat="server" AssociatedControlID="txtDate" Text="Date:"></asp:Label></td>

<td><asp:TextBox ID="txtDate" runat="server" TextMode="Date"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblNumber" runat="server" AssociatedControlID="txtNumber" Text="Number:"></asp:Label></td>

<td><asp:TextBox ID="txtNumber" runat="server" TextMode="Number"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblMaxLength" runat="server" AssociatedControlID="txtMaxLength" Text="Max Length (3):"></asp:Label></td>

<td><asp:TextBox ID="txtMaxLength" runat="server" MaxLength="3"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblMultiLine" runat="server" AssociatedControlID="txtMultiLine" Text="Multi Line:"></asp:Label></td>

<td><asp:TextBox ID="txtMultiLine" runat="server" Columns="25" Rows="5" TextMode="MultiLine"></asp:TextBox></td>

</tr>

</table>

</td>

</tr>

<tr>

<td>&nbsp;</td>

<td>&nbsp;</td>

</tr>

<tr>

<td>

<asp:CheckBox ID="chkNewsletter" runat="server" Text="Receive newsletter?" AutoPostBack="True" OnCheckedChanged="chkNewsletter\_CheckedChanged" /><br />

<asp:CheckBox ID="chkSQL" runat="server" Text="Do you want to receive the bonus SQL newsletter?" Visible="False" /></td>

<td>

How did you hear about our website?<br />

<asp:RadioButton ID="radMagazine" runat="server" Text="Magazine article" GroupName="Source" /><br />

<asp:RadioButton ID="radTelevision" runat="server" Text="Television program" GroupName="Source" /><br />

<asp:RadioButton ID="radOther" runat="server" Text="Other source" GroupName="Source" /></td>

</tr>

<tr>

<td>

<asp:LinkButton ID="lnkSubmit"

runat="server"

OnClick="lnkSubmit\_Click"

OnClientClick="return confirm('Are you sure?');"

onmouseover="this.innerText='Click Here!'"

onmouseout="this.innerText='Submit'">

Submit

</asp:LinkButton></td>

<td>

<asp:Label ID="lblResult" runat="server" CssClass="resultStyle"></asp:Label></td>

</tr>

<tr>

<td>&nbsp;</td>

<td>&nbsp;</td>

</tr>

<tr>

<td>

<asp:Label ID="lblSearch" runat="server" Text="Search:"></asp:Label>

<asp:TextBox ID="txtSearch" runat="server"></asp:TextBox>

<asp:Button ID="btnSearch" runat="server" PostBackUrl="~/search.aspx" Text="Search" /></td>

<td>

<asp:ImageMap ID="mapButtons" runat="server" ImageUrl="~/images/buttons.PNG">

<asp:RectangleHotSpot AlternateText="Mohawk College Web Site" Bottom="105" NavigateUrl="http://www.mohawkcollege.ca"

Right="192" />

<asp:RectangleHotSpot AlternateText="eLearn Web Site" Bottom="105" Left="201"

NavigateUrl="https://elearn.mohawkcollege.ca" Right="399" />

</asp:ImageMap>

</td>

</tr>

<tr>

<td>

</td>

<td>

<asp:HyperLink ID="lnkMohawk" runat="server" NavigateUrl="~/validations.aspx">Validations Page</asp:HyperLink></td>

</tr>

</table>

<br />

<h3>Phone Numbers</h3>

<asp:Label ID="lblHomePhone" runat="server" AssociatedControlID="txtHomePhone" Text="Home:"></asp:Label>

<asp:TextBox ID="txtHomePhone" runat="server"></asp:TextBox><br />

<asp:CheckBox ID="chkBusiness" runat="server" Text="Business numbers" AutoPostBack="True" OnCheckedChanged="chkBusiness\_CheckedChanged" /><br />

<asp:Panel ID="pnlBusiness" runat="server" Width="237px"

GroupingText="Work Numbers" Visible="False">

<table>

<tr>

<td><asp:Label ID="lblWorkPhone" runat="server" Text="Work:" AssociatedControlID="txtWorkPhone"></asp:Label></td>

<td><asp:TextBox ID="txtWorkPhone" runat="server"></asp:TextBox></td>

</tr>

<tr>

<td><asp:Label ID="lblWorkFax" runat="server" Text="Fax:" AssociatedControlID="txtWorkFax"></asp:Label></td>

<td><asp:TextBox ID="txtWorkFax" runat="server"></asp:TextBox></td>

</tr>

</table>

</asp:Panel>

<br />

<br />

<br />

<asp:Panel ID="pnlList" runat="server" Height="200px" Width="125px"

ScrollBars="Auto">

<asp:BulletedList ID="bltList" runat="server">

</asp:BulletedList>

</asp:Panel>

<br />

<br />

<br />

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class \_Default : System.Web.UI.Page

{

/// <summary>

/// Set page title

/// Give focus to first name text box

/// Populate bulleted list items 0 to 99

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

ltlTitle.Text = "Standard Controls - " + DateTime.Now.ToString("D");

txtFirstName.Focus();

for (int i = 0; i < 100; i++)

bltList.Items.Add("Item " + i.ToString());

}

/// <summary>

/// Toggle visibility of SQL newsletter check box

/// </summary>

/// <param name="sender">chkNewsletter</param>

/// <param name="e">Event data</param>

protected void chkNewsletter\_CheckedChanged(object sender, EventArgs e)

{

chkSQL.Visible = chkNewsletter.Checked;

}

/// <summary>

/// Process submit link button

/// </summary>

/// <param name="sender">lnkSubmit</param>

/// <param name="e">Event data</param>

protected void lnkSubmit\_Click(object sender, EventArgs e)

{

lblResult.Text = "Favourite Colour=" + txtFavColour.Text + "<br />";

lblResult.Text += "SQL=" + chkSQL.Checked.ToString() + "<br />";

if (radMagazine.Checked)

lblResult.Text += radMagazine.Text;

else if (radTelevision.Checked)

lblResult.Text += radTelevision.Text;

else if (radOther.Checked)

lblResult.Text += radOther.Text;

}

/// <summary>

/// Toggle visibility of work phone numbers panel

/// </summary>

/// <param name="sender">chkBusiness</param>

/// <param name="e">Event data</param>

protected void chkBusiness\_CheckedChanged(object sender, EventArgs e)

{

pnlBusiness.Visible = chkBusiness.Checked;

}

/// <summary>

/// Public read only property to return the contents of the txtSearch text box

/// </summary>

public string SearchString

{

get { return txtSearch.Text; }

}

}

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

<%@ PreviousPageType VirtualPath="~/Default.aspx" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title>Search Page</title>

</head>

<body>

<form id="form1" runat="server">

<div>

<asp:Label ID="lblSearch" runat="server"></asp:Label><br />

<asp:Label ID="lblSearchTyped" runat="server"></asp:Label><br />

<asp:Label ID="lblSearchRequestObject" runat="server"></asp:Label><br />

<asp:Label ID="lblNoSearchText" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class search : System.Web.UI.Page

{

/// <summary>

/// Access previous page to retrieve search string 3 different ways

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

if (PreviousPage != null)

{

// Using FindControl

TextBox txtSearch = (TextBox)(PreviousPage.FindControl("txtSearch"));

lblSearch.Text = String.Format("Search for: {0}. Found with PreviousPage.FindControl", txtSearch.Text);

// Using typed property

lblSearchTyped.Text = "Search for: " + PreviousPage.SearchString + ". Found with PreviousPage.SearchString";

// Using request object

lblSearchRequestObject.Text = "Search for: " + Request["txtSearch"] + ". Found with Request[\"txtSearch\"]";

}

else

lblNoSearchText.Text = "This page was called directly and therefore there is no previous page to access.";

}

}

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title>Validation Controls</title>

<script type="text/javascript">

function cusProgram\_ClientValidate(source, args) {

if (args.Value == "548" || args.Value == "558" || args.Value == "559")

args.IsValid = true;

else

args.IsValid = false;

}

</script>

<style type="text/css">

.auto-style1 {

height: 26px;

}

</style>

</head>

<body>

<form id="form1" runat="server" defaultfocus="txtID">

<div>

<h1>Validation Controls</h1>

<asp:Panel ID="pnlStudent" runat="server" Height="366px"

GroupingText="Student Information" Width="595px">

<table>

<tr>

<td>

<asp:Label ID="lblID" runat="server" AssociatedControlID="txtID" Text="Student ID:"></asp:Label></td>

<td>

<asp:TextBox ID="txtID" runat="server" Columns="9" MaxLength="9"></asp:TextBox>

<asp:RequiredFieldValidator ID="reqID" runat="server" ControlToValidate="txtID" ErrorMessage="Student ID is required" Display="Dynamic" SetFocusOnError="True">(Required)</asp:RequiredFieldValidator>&nbsp;

<asp:RangeValidator ID="rngID" runat="server" ControlToValidate="txtID"

ErrorMessage="StudentID must be in range 1 to 999999999" MaximumValue="999999999" MinimumValue="1"

SetFocusOnError="True" Type="Integer">(Must be in range 1 to 999999999)</asp:RangeValidator></td>

</tr>

<tr>

<td><asp:Label ID="lblName" runat="server" Text="Name:" AssociatedControlID="txtName"></asp:Label></td>

<td>

<asp:TextBox ID="txtName" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="reqName" runat="server" ControlToValidate="txtName" Display="Dynamic" ErrorMessage="Name is required" SetFocusOnError="True"><img src='images/error.jpg' alt='Name is required' title='Name is required' /></asp:RequiredFieldValidator>

</td>

</tr>

<tr>

<td>

<asp:Label ID="lblAge" runat="server" AssociatedControlID="txtAge" Text="Age:"></asp:Label></td>

<td>

<asp:TextBox ID="txtAge" runat="server" Columns="3" MaxLength="3"></asp:TextBox>

<asp:RequiredFieldValidator ID="reqAge" runat="server" ControlToValidate="txtAge"

ErrorMessage="Age is required" Display="Dynamic" SetFocusOnError="True">(Required)</asp:RequiredFieldValidator>

<asp:CompareValidator ID="cmpAge" runat="server" ControlToValidate="txtAge"

ErrorMessage="Age must be whole number" Operator="DataTypeCheck" Type="Integer" SetFocusOnError="True">(Must be whole number)</asp:CompareValidator>

</td>

</tr>

<tr>

<td>

<asp:Label ID="lblGender" runat="server" AssociatedControlID="ddlGender" Text="Gender:"></asp:Label></td>

<td>

<asp:DropDownList ID="ddlGender" runat="server">

<asp:ListItem Value="none">Select gender</asp:ListItem>

<asp:ListItem Value="F">Female</asp:ListItem>

<asp:ListItem Value="M">Male</asp:ListItem>

</asp:DropDownList>

<asp:RequiredFieldValidator ID="reqGender" runat="server" ControlToValidate="ddlGender"

ErrorMessage="Gender is required" InitialValue="none" SetFocusOnError="True">(Required)</asp:RequiredFieldValidator></td>

</tr>

<tr>

<td>

<asp:Label ID="lblDOB" runat="server" AssociatedControlID="txtDOB" Text="Date of birth:"></asp:Label></td>

<td>

<asp:TextBox ID="txtDOB" runat="server" TextMode="Date"></asp:TextBox>

<asp:RequiredFieldValidator ID="reqDOB" runat="server" ControlToValidate="txtDOB"

Display="Dynamic" ErrorMessage="Date of birth is required" SetFocusOnError="True">(Required)</asp:RequiredFieldValidator>

<asp:CompareValidator ID="cmpDOB" runat="server" ControlToValidate="txtDOB"

ErrorMessage="Date of birth must be valid and before today" Type="Date"

Operator="LessThan" SetFocusOnError="True">(Date must be valid and before today)</asp:CompareValidator>

</td>

</tr>

<tr>

<td>

<asp:Label ID="lblEmail" runat="server" AssociatedControlID="txtEmail" Text="Email:"></asp:Label><td>

<asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator ID="reqMail" runat="server" ControlToValidate="txtEmail"

Display="Dynamic" ErrorMessage="Email is required" SetFocusOnError="True">(Required)</asp:RequiredFieldValidator>

<asp:RegularExpressionValidator ID="regEmail" runat="server" ControlToValidate="txtEmail"

ErrorMessage="Email address is invalid" SetFocusOnError="True" ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-.]\w+)\*">(Invalid email)</asp:RegularExpressionValidator></td>

</tr>

<tr>

<td class="auto-style1">

<asp:Label ID="lblProgram" runat="server" AssociatedControlID="txtProgram" Text="Program:"></asp:Label></td>

<td class="auto-style1">

<asp:TextBox ID="txtProgram" runat="server"></asp:TextBox>

<asp:RequiredFieldValidator

ID="reqProgram"

runat="server"

ControlToValidate="txtProgram"

Display="Dynamic"

ErrorMessage="Program of study is required"

SetFocusOnError="True">(Required)</asp:RequiredFieldValidator>

<asp:CustomValidator

ID="cusProgram"

runat="server"

ControlToValidate="txtProgram"

OnServerValidate="cusProgram\_ServerValidate"

ClientValidationFunction="cusProgram\_ClientValidate"

ErrorMessage="Program of study invalid, valid programs are: 548, 558, 559"

SetFocusOnError="True">(Valid programs: 548, 558, 559)

</asp:CustomValidator>

</td>

</tr>

</table>

<asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit\_Click" />

<asp:Button ID="btnCancel" runat="server" CausesValidation="False" Text="Cancel" /><br />

<asp:Label ID="lblResult" runat="server"></asp:Label><br />

&nbsp;<asp:ValidationSummary ID="valSummary" runat="server" />

</asp:Panel>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class validations : System.Web.UI.Page

{

/// <summary>

/// Populate Date of Birth compare validator with current date to compare against

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

cmpDOB.ValueToCompare = DateTime.Now.ToString("d");

}

/// <summary>

/// If all validations are successful, acknowledge user input

/// </summary>

/// <param name="sender">btnSubmit</param>

/// <param name="e">Event data</param>

protected void btnSubmit\_Click(object sender, EventArgs e)

{

if (Page.IsValid)

{

lblResult.Text = "Thank you for your input.";

}

}

/// <summary>

/// Perform custom validation server side, in case client has disabled JavaScript

/// </summary>

/// <param name="source">cusProgram</param>

/// <param name="args">Event data</param>

protected void cusProgram\_ServerValidate(Object source, ServerValidateEventArgs args)

{

if (args.Value == "548" || args.Value == "558" || args.Value == "559")

args.IsValid = true;

else

args.IsValid = false;

}

}

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title>File Uploader</title>

</head>

<body>

<form id="form1" runat="server">

<div>

<asp:Label

id="lblImageFile"

Text="Image File: "

AssociatedControlID="upImage"

Runat="server" />

<asp:FileUpload

id="upImage"

Runat="server" />

<br /><br />

<asp:Button

id="btnAdd"

Text="Add Image"

OnClick="btnAdd\_Click"

Runat="server" />

&nbsp;

<asp:Label ID="lblError" runat="server"></asp:Label>

<hr />

<asp:DataList

id="dlstImages"

RepeatColumns="3"

runat="server">

<ItemTemplate>

<asp:Image ID="Image1"

ImageUrl='<%# Eval("Name", "~/UploadImages/{0}") %>'

style="width:200px"

Runat="server" />

<br />

<%# Eval("Name") %>

</ItemTemplate>

</asp:DataList>

<a href="Default.aspx">Default.aspx</a>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.IO; // Added for Path class

public partial class FileUploader : System.Web.UI.Page

{

/// <summary>

/// Reset error label.

/// </summary>

/// <param name="sender">Page</param>

/// <param name="e">Event data</param>

protected void Page\_Load(object sender, EventArgs e)

{

lblError.Text = "";

}

/// <summary>

/// Save image file to file system if it is of correct type.

/// </summary>

/// <param name="sender">btnAdd</param>

/// <param name="e">Event data</param>

protected void btnAdd\_Click(object sender, EventArgs e)

{

if (upImage.HasFile)

{

if (CheckFileType(upImage.FileName))

{

String filePath = "~/UploadImages/" + upImage.FileName;

upImage.SaveAs(MapPath(filePath));

}

else

{

lblError.Text = "File type must be gif, png, jpg or jpeg.";

}

}

}

/// <summary>

/// Determines if the fileName is of type gif, png, jpg or jpeg.

/// </summary>

/// <param name="fileName">A System.String that represents the name of the

/// file that is potentially about to be uploaded.</param>

/// <returns>True if the file is of the expected type.</returns>

bool CheckFileType(string fileName)

{

string ext = Path.GetExtension(fileName);

switch (ext.ToLower())

{

case ".gif":

return true;

case ".png":

return true;

case ".jpg":

return true;

case ".jpeg":

return true;

default:

return false;

}

}

/// <summary>

/// Update datalist with images.

/// </summary>

void Page\_PreRender()

{

string upFolder = MapPath("~/UploadImages/");

DirectoryInfo dir = new DirectoryInfo(upFolder);

dlstImages.DataSource = dir.GetFiles();

dlstImages.DataBind();

}

}

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="Head1" runat="server">

<title></title>

</head>

<body>

<form id="form1" runat="server">

<div>

<asp:Wizard ID="Wizard1" HeaderText="Product Survey" OnFinishButtonClick="Wizard1\_FinishButtonClick"

runat="server" ActiveStepIndex="0">

<WizardSteps>

<asp:WizardStep ID="WizardStep1" Title="Introduction" runat="server">

Please complete our survey so that we can improve our products.

</asp:WizardStep>

<asp:WizardStep ID="WizardStep2" Title="Step 1" runat="server">

<asp:Label ID="lblName" Text="Your Name:" AssociatedControlID="txtName" runat="server" />

<br />

<asp:TextBox ID="txtName" runat="server" />

</asp:WizardStep>

<asp:WizardStep ID="WizardStep3" Title="Step 2" StepType="Finish" runat="server">

<asp:Label ID="lblPhone" Text="Phone Number:" AssociatedControlID="txtPhone" runat="server" />

<br />

<asp:TextBox ID="txtPhone" runat="server" />

</asp:WizardStep>

<asp:WizardStep ID="WizardStep4" Title="Summary" StepType="Complete" runat="server">

<h1>

Summary</h1>

<h3>Thank you for completing our survey</h3>

Name:

<asp:Label ID="lblNameResult" runat="server" />

<br />

<br />

Phone Number:

<asp:Label ID="lblPhoneResult" runat="server" />

</asp:WizardStep>

</WizardSteps>

</asp:Wizard>

<a href="Default.aspx">Default.aspx</a>

</div>

</form>

</body>

</html>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

public partial class Wizard : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

/// <summary>

/// Display name and telephone number of surveyed user

/// </summary>

/// <param name="sender">Wizard1</param>

/// <param name="e">Wizard event data</param>

protected void Wizard1\_FinishButtonClick(object sender, WizardNavigationEventArgs e)

{

lblNameResult.Text = txtName.Text;

lblPhoneResult.Text = txtPhone.Text;

}

}

<%@ Master Language="C#" AutoEventWireup="true" CodeFile="MasterPage.master.cs" Inherits="MasterPage" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Lecture 3 - Master Page</title>

<asp:ContentPlaceHolder id="head" runat="server">

</asp:ContentPlaceHolder>

<link href="StyleSheet.css" rel="stylesheet" />

</head>

<body>

<form id="form1" runat="server">

<div class="content">

<h1>Acme Corporation</h1>

<div class="leftColumn">

<a href="page1.aspx">Page 1</a><br />

<a href="page2.aspx">Page 2</a><br />

<a href="page3.aspx">Page 3</a><br />

<a href="Default.aspx">Default.aspx</a>

</div>

<div class="middleColumn">

<asp:contentplaceholder id="ContentPlaceHolder1" runat="server">

</asp:contentplaceholder>

</div>

<div class="rightColumn">

<asp:contentplaceholder id="ContentPlaceHolder2" runat="server">

</asp:contentplaceholder>

</div>

<br class="clear" />

</div>

</form>

</body>

</html>