5/25/2023

Lab no 14

Internet application development

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Aspx Code:

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb"
Inherits="lab14_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Lab 14</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f9f9f9;
            margin: 20px;
            color: #333;
        }

        h1, h2, p {
            margin-bottom: 10px;
        }

        h1 {
            font-size: 32px;
            color: #4285f4;
            text-align: center;
        }

        h2 {
            font-size: 24px;
            color: #ea4335;
            text-align: center;
        }

        p {
            font-size: 18px;
            color: #3c4043;
            text-align: center;
        }

        a {
            color: #4285f4;
            text-decoration: none;
        }

        #Div1 {
            background-color: #ffffff;
            padding: 20px;
            border-radius: 5px;
            box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
            margin-top: 20px;
            text-align: center;
        }

        img {
            max-width: 100%;
            height: auto;
```

```
        margin-top: 20px;
    }

    /* Interactive Styles */
    h1:hover, h2:hover, p:hover {
        color: #ea4335;
        cursor: pointer;
    }
    </style>
</head>
<body>
    <h1><b>Lab no : 14</b></h1>
    <hr />

    <h2><b>Problem Statement:</b></h2>
=
    <p><b>Develop an application to read authors, titles and their relationships in three
different pages.</b></p>
  <p>The pages should allow to add, remove and modify authors, titles, and their
associations. Use data set for storing three</p>
  <p>tables and their data relations. Update data using disconnected data access
technique.</p>
<p>You may add a separate button for original source data update "Update Source
Data".</p>

    <br />
    <hr />

    <h2><b>Lab Demo</b></h2>
    <p>Click here: <a href="lab14.aspx">Lab 14 Demo</a></p>
    <hr />

    <h2><b>Lab Report:</b></h2>
    <div id="Div1" runat="server">
        <a href="lab14.pdf" download>Download Lab14</a>
        <hr />
        <h2><b>Output</b></h2>

        <br />
        <img src="Picture1.png" alt="lab14_output">
        <br />
    </div>
</body>
</html>
```

Vb Code:

```
Partial Class lab11_Default
    Inherits System.Web.UI.Page

End Class
```

Aspx Code:

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="lab14.aspx.vb"
Inherits="lab14_lab14" %>

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
<style>
body {
font-family: Arial, sans-serif;
background-color: #f2f2f2;
margin: 0;
padding: 20px;
}
.container {
max-width: 600px;
margin: 0 auto;
padding: 20px;
background-color: #fff;
border: 1px solid #ccc;
border-radius: 4px;
}
label {
display: block;
margin-bottom: 5px;
font-weight: bold;
}
input[type="text"],
select {
width: 100%;
padding: 5px;
margin-bottom: 10px;
border: 1px solid #ccc;
border-radius: 4px;
}
.button-container {
text-align: center;
}

}
</style>
</head>
<body>
<form id="form1" runat="server">
<div>
<asp:Lable >Select Author : </asp:Lable>
<asp:DropDownList ID="dropDownList"
runat="server"></asp:DropDownList>

<br />
<asp:Lable >OR : </asp:Lable>
<asp:Button ID="createNewBtn" Text="Create New" runat="server"
/>
<asp:Button ID="insertNewBtn" Text="Insert New" runat="server"
/>
```

```
<asp:Label id="lblResults" runat= "server"></asp:Label>
</div>
<br />
<br />
<div id="divCreate" runat="server" visible="false">
<asp:Lable >Unique Id : </asp:Lable>
<asp:TextBox ID="idTB" runat="server" ></asp:TextBox>
<asp:Lable >(required : ###-##-#### ) </asp:Lable>
<br />

<asp:Lable >First Name : </asp:Lable>
<asp:TextBox ID="firstNameTb" runat="server" ></asp:TextBox>
<br />
<asp:Lable >Last Name : </asp:Lable>
<asp:TextBox ID="lastNameTb" runat="server" ></asp:TextBox>
<br />
<asp:Lable >Phone : </asp:Lable>
<asp:TextBox ID="phoneTb" runat="server" ></asp:TextBox>
<br />
<asp:Lable >Address : </asp:Lable>
<asp:TextBox ID="addressTb" runat="server" ></asp:TextBox>
<br />
<asp:Lable >City : </asp:Lable>
<asp:TextBox ID="cityTb" runat="server" ></asp:TextBox>
<br />
<asp:Lable >State : </asp:Lable>
<asp:TextBox ID="stateTb" runat="server" ></asp:TextBox>
<br />
<asp:Lable >Zip Code : </asp:Lable>
<asp:TextBox ID="zipTb" runat="server" ></asp:TextBox>
<asp:Lable >(required : any five digits )</asp:Lable>
<br />
<asp:CheckBox id="contractCb" runat="server"/>
<asp:Button ID="CreateBtn" Text="Create" runat="server" />
</div>
</form>
</body>
</html>
```

Vb Code:

```vb
Imports System.Data
Imports System.Data.SqlClient
Imports System.Drawing
Imports System.Net.NetworkInformation

Partial Class lab14_lab14
    Inherits System.Web.UI.Page

    Dim dsPubs As New DataSet()
    Dim connectionString As String = "workstation id=pvfcdbs01.mssql.somee.com;packet
size=4096;user id=Ahmed01_SQLLogin_2;pwd=3m8wl51ewc;data
source=pvfcdbs01.mssql.somee.com;persist security info=False;initial catalog=pvfcdbs01"
    Dim selectSQL As String = "SELECT au_lname, au_fname, au_id, phone, address, city,
state, zip, contract FROM Authors"
    Dim con As New SqlConnection(connectionString)
```

```vbnet
    Dim adapter As SqlDataAdapter

    Private Sub FillAuthorList()
        Dim cmd As New SqlCommand(selectSQL, con)
        adapter = New SqlDataAdapter(cmd)

        Try
            con.Open()
            adapter.Fill(dsPubs, "Authors")
        Catch err As Exception
            lblResults.Text = "Error reading list of names. "
            lblResults.Text &= err.Message
        Finally
            con.Close()
        End Try

        For Each rowAuthor As DataRow In dsPubs.Tables("Authors").Rows
            Dim li As New ListItem()
            li.Text = rowAuthor("au_fname") & ", " & rowAuthor("au_lname")
            dropDownList.Items.Add(li)
        Next
    End Sub

    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            FillAuthorList()
        End If
    End Sub

    Protected Sub createNewBtn_Click(sender As Object, e As EventArgs) Handles
createNewBtn.Click, insertNewBtn.Click
        divCreate.Visible = True
    End Sub

    Protected Sub CreateBtn_Click(sender As Object, e As EventArgs) Handles
CreateBtn.Click
        Dim rowNew As DataRow
        rowNew = dsPubs.Tables("Authors").NewRow()
        rowNew("au_id") = idTB.Text
        rowNew("au_fname") = firstNameTb.Text
        rowNew("au_lname") = lastNameTb.Text
        rowNew("phone") = phoneTb.Text
        rowNew("address") = addressTb.Text
        rowNew("city") = cityTb.Text
        rowNew("state") = stateTb.Text
        rowNew("zip") = zipTb.Text
        rowNew("contract") = contractCb.Checked
        dsPubs.Tables("Authors").Rows.Add(rowNew)

        Dim added As Integer = 0

        Try
            Dim cb As New SqlCommandBuilder(adapter)
            adapter = cb.DataAdapter

            con.Open()
            added = adapter.Update(dsPubs, "Authors")
        Catch err As Exception
```

```
            lblResults.Text = "Error inserting record. "
            lblResults.Text &= err.Message
        Finally
            con.Close()
        End Try

        If added > 0 Then
            FillAuthorList()
        End If

        divCreate.Visible = False
    End Sub
End Class
```

Output: