

Assignment - 7

1. Create ASP.NET webpage that will display current date & time and create output cache of webpage and create cache by param.

Design code:

```
<%@ OutputCache Duration="15" VaryByParam="none" %>
```

C# code:

```
Response.Write(DateTime.Now.ToString());
```

(2) By param –

Design code

```
<%@ OutputCache Duration="15" VaryByParam="id" %>
```

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

```
<div>
```

```
<a href="Default.aspx?id=1">Click here for id = 1 </a>
```

```
<a href="Default.aspx?id=2">Click here for id = 2</a>
```

```
</div>
```

```
</form>
```

C# code:

```
Response.Write(DateTime.Now.ToString());
```

2. Create ASP.NET webpage that will display current date & time from user control and create partial cache of webpage.

Create User Control : Add new item>Web User Control

Design Code of web user control:

```
<%@ OutputCache Duration="10" VaryByParam="none" %>
```

```
<asp:Label ID="Label1" runat="server" ForeColor="#CC00CC" Text="Label"></asp:Label>
```

C# Code of web user control:

```
protected void Page_Load(object sender, EventArgs e)
{
    Label1.Text = DateTime.Now.ToString();
}
```

Design code for webpage :

```
<%@ Register Src="~/WebUserControl.ascx" TagPrefix="uc" TagName="timecontrol" %>
```

```
<uc:timecontrol runat="server"></uc:timecontrol>
```

3. Create ASP.NET webpages that will display current date & time using absolute expiration cache.

C# code:

```
using System.Web.Caching;

protected void Page_Load(object sender, EventArgs e)
{
    if (Cache["AbsoluteCacheKey"] == null)
    {
        string cacheData = DateTime.Now.ToString();
        Cache.Insert("AbsoluteCacheKey", cacheData, null, DateTime.Now.AddSeconds(10),
System.Web.Caching.Cache.NoSlidingExpiration);
        Response.Write("Cache created");
    }
    else
    {
        string value = Cache["AbsoluteCacheKey"].ToString();
        Response.Write(value);
    }
}
}
```

4. Create ASP.NET webpages that will display current date & time using Sliding expiration cache.

using System.Web.Caching;

```
if (Cache["SlideCacheKe"] == null)
{
    string cacheData = DateTime.Now.ToString();
    Cache.Insert("SlideCacheKe", cacheData, null,
System.Web.Caching.Cache.NoAbsoluteExpiration, TimeSpan.FromSeconds(10));

    Response.Write("Cache created");
}
else
{
    string value = Cache.Get("SlideCacheKe").ToString();
    Response.Write(value);
}
```

5. Create ASP.NET webpage that will display data into gridview control and create data caching.

Design code:-

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>

            <asp:GridView ID="GridView1" runat="server" AllowPaging="True"
                AllowSorting="True" AutoGenerateColumns="False" DataKeyNames="id"
                DataSourceID="SqlDataSource1">
                <Columns>
                    <asp:CommandField ShowDeleteButton="True" ShowEditButton="True"
                        ShowSelectButton="True" />
                    <asp:BoundField DataField="id" HeaderText="id" InsertVisible="False"
                        ReadOnly="True" SortExpression="id" />
                    <asp:BoundField DataField="Name" HeaderText="Name" SortExpression="Name" />
                </Columns>
            </asp:GridView>
        </div>
    </form>
</body>
</html>
```

```

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

        <asp:BoundField DataField="MobileNo" HeaderText="MobileNo"
            SortExpression="MobileNo" />
        <asp:BoundField DataField="Department" HeaderText="Department"
            SortExpression="Department" />
        <asp:BoundField DataField="College" HeaderText="College"
            SortExpression="College" />
    </Columns>
</asp:GridView>
<asp:SqlDataSource ID="SqlDataSource1" runat="server"
    ConflictDetection="CompareAllValues"
    ConnectionString="<%= ConnectionStrings:Connection %>"
    EnableCaching = "true" CacheDuration = "60"
    DeleteCommand="DELETE FROM [Register] WHERE [id] = @original_id AND (([Name] =
@original_Name) OR ([Name] IS NULL AND @original_Name IS NULL)) AND (([Email] =
@original_Email) OR ([Email] IS NULL AND @original_Email IS NULL)) AND (([MobileNo] =
@original_MobileNo) OR ([MobileNo] IS NULL AND @original_MobileNo IS NULL)) AND
(([Department] = @original_Department) OR ([Department] IS NULL AND @original_Department IS
NULL)) AND (([College] = @original_College) OR ([College] IS NULL AND @original_College IS
NULL))"
    InsertCommand="INSERT INTO [Register] ([Name], [Email], [MobileNo], [Department],
[College]) VALUES (@Name, @Email, @MobileNo, @Department, @College)"
    OldValuesParameterFormatString="original_{0}"
    SelectCommand="SELECT * FROM [Register]"
    UpdateCommand="UPDATE [Register] SET [Name]= @Name, [Email] = @Email, [MobileNo]
= @MobileNo, [Department] = @Department, [College] = @College WHERE [id] = @original_id AND
(([Name] = @original_Name) OR ([Name] IS NULL AND @original_Name IS NULL)) AND (([Email] =
@original_Email) OR ([Email] IS NULL AND @original_Email IS NULL)) AND (([MobileNo] =
@original_MobileNo) OR ([MobileNo] IS NULL AND @original_MobileNo IS NULL)) AND
(([Department] = @original_Department) OR ([Department] IS NULL AND @original_Department IS
NULL)) AND (([College] = @original_College) OR ([College] IS NULL AND @original_College IS
NULL))">
    <DeleteParameters>
        <asp:Parameter Name="original_id" Type="Int32" />
        <asp:Parameter Name="original_Name" Type="String" />
        <asp:Parameter Name="original_Email" Type="String" />
        <asp:Parameter Name="original_MobileNo" Type="Decimal" />
        <asp:Parameter Name="original_Department" Type="String" />
        <asp:Parameter Name="original_College" Type="String" />
    </DeleteParameters>
    <InsertParameters>
        <asp:Parameter Name="Name" Type="String" />
        <asp:Parameter Name="Email" Type="String" />
        <asp:Parameter Name="MobileNo" Type="Decimal" />
        <asp:Parameter Name="Department" Type="String" />
        <asp:Parameter Name="College" Type="String" />
    </InsertParameters>
    <UpdateParameters>
        <asp:Parameter Name="Name" Type="String" />
        <asp:Parameter Name="Email" Type="String" />
        <asp:Parameter Name="MobileNo" Type="Decimal" />
        <asp:Parameter Name="Department" Type="String" />
        <asp:Parameter Name="College" Type="String" />
        <asp:Parameter Name="original_id" Type="Int32" />
        <asp:Parameter Name="original_Name" Type="String" />
        <asp:Parameter Name="original_Email" Type="String" />
        <asp:Parameter Name="original_MobileNo" Type="Decimal" />
        <asp:Parameter Name="original_Department" Type="String" />
        <asp:Parameter Name="original_College" Type="String" />
    </UpdateParameters>

```

```
        </asp:SqlDataSource>

        </div>
        <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
    </form>
</body>
</html>
```

C# Code:-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Label1.Text = String.Format("Page posted at: {0}", DateTime.Now.ToLongTimeString());
    }
}
```