

<b>Program</b>	All Program list wise provided in class.
<b>Roll No</b>	1259
<b>Subject</b>	AWT

## 1. Birthday Calendar.

**Source Code :**

### DisplayCal.aspx.cs

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

namespace Birthday_Calender
{
    public partial class DisplayCal : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Cal1_SelectionChanged(object sender, EventArgs e)
        {

        }

        protected void Cal1_DayRender(object sender, DayRenderEventArgs e)
        {
            //Fetch Day
            DateTime temp = e.Day.Date;
            if(temp.Day == 4 && temp.Month == 7)
            {
                Label l1 = new Label();
                l1.Text = "<BR><br> It's OM's Birthday <br><BR> ";
                l1.ForeColor = Color.Blue;
                Font f1 = new Font("Monotype Corsiva", 20, FontStyle.Regular);
                e.Cell.Controls.Add(l1);
            }
        }
    }
}
```

## DisplayCal.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="DisplayCal.aspx.cs" Inherits="Birthday_Calender.DisplayCal" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style type="text/css">
        .auto-style1 {
            margin-top: 1px;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
        <div>
```

```
<asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="X-Large"
ForeColor="#0066FF" Text="Birthday Calendar "></asp:Label>
<br />
<asp:Calendar ID="Cal1" runat="server" BackColor="White" BorderColor="Black"
BorderStyle="None" CaptionAlign="Bottom" CellSpacing="1" CssClass="auto-style1"
Font-Names="Verdana" Font-Size="9pt" ForeColor="Black" Height="498px"
NextPrevFormat="ShortMonth" OnDayRender="Cal1_DayRender"
OnSelectionChanged="Cal1_SelectionChanged" Width="898px">

    <DayHeaderStyle BackColor="White" BorderStyle="Outset" Font-Bold="True"
        Font-Size="8pt" ForeColor="Black" Height="8pt" />
    <DayStyle BackColor="White" BorderStyle="Outset" />
    <NextPrevStyle Font-Bold="True" Font-Size="8pt" ForeColor="White" />
    <OtherMonthDayStyle ForeColor="#999999" />
    <SelectedDayStyle BackColor="Gray" ForeColor="White" />
    <TitleStyle BackColor="#333399" BorderStyle="Solid" Font-Bold="True"
        Font-Size="12pt" ForeColor="White" Height="12pt" />
    <TodayDayStyle BackColor="#999999" ForeColor="White" />
</asp:Calendar>
</div>
</form>
</body>
</html>
```

**Output:**

The screenshot displays a web application titled "Birthday Calendar". The main content is a calendar for June 2022. The calendar is presented as a table with columns for the days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and rows for the dates. The date 1st June is highlighted in gray. The interface includes a Solution Explorer on the right side, showing the project structure for "Birthday Calendar". The Solution Explorer lists the following files and folders:

- Solution Explorer (Ctrl+):
- Solution "Birthday Calendar" (1 of 1 projects):
  - Birthday Calendar
    - Connected Services
    - Properties
    - References
    - images
      - om.jpg
      - zee.jpeg
    - DisplayCal.aspx
      - DisplayCal.aspx.cs
      - DisplayCal.aspx.designer.cs
    - packages.config
    - Web.config

The Solution Explorer also shows the "Properties" window for "DisplayCal.aspx", with the "Advanced" tab selected, showing the "Browse to URL" property set to "~/DisplayCa".

# Bhujbal Knowledge City

## MET Institute of Computer Science

← → ↻ <https://localhost:44312/DisplayCal.aspx>

### Birthday Calendar

Jun	July 2022						Aug
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
26	27	28	29	30	1	2	
3	4 It's OM's Birthday 	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31	1	2	3	4	5	6	

← → ↻ <https://localhost:44312/DisplayCal.aspx>

### Birthday Calendar

Jul	August 2022						Sep
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
31	1	2	3	4	5	6	
7	8	9	10	11 It's Zeeshan Birthday 	12	13	
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	

### 2. Social Networking site.

#### Source Code:

##### Index.aspx.cs

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

namespace MySocialNetworkingSite
{
    public partial class index : System.Web.UI.Page
    {
        SqlConnection myconn;
        SqlCommand mycmd;
        SqlDataReader myrdr;
        protected void Page_Load(object sender, EventArgs e)
        {
            myconn = new SqlConnection();
            myconn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=SocialDB;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSub
netFailover=False";

        }

        protected void btnSignUp_Click(object sender, EventArgs e)
        {

        }

        protected void btnSignIn_Click(object sender, EventArgs e)
        {
            myconn.Open();
            String mysql = "select * from UserDetails where UserName = @un and pwd = @pwd";
            // Command parameters @pwd
            mycmd = new SqlCommand(mysql, myconn);
            mycmd.Parameters.AddWithValue("@un", txtun.Text);
            mycmd.Parameters.AddWithValue("@pwd", txtpwd.Text);
            myrdr = mycmd.ExecuteReader();
            if (myrdr.HasRows)
            {
                Response.Redirect("~/index.aspx");
            }
        }
    }
}
```

```
}
    else
    {
        Response.Redirect("~/RegisterUser.aspx");
    }
}
}
```

### **RegisterUser.aspx.cs**

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

namespace MySocialNetworkingSite
{
    public partial class RegisterUser : System.Web.UI.Page
    {
        SqlConnection myconn;
        SqlCommand mycmd;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void valCaptcha_ServerValidate(object source, ServerValidateEventArgs args)
        {
            String entCap = args.Value;
            String gCap = Session["cap"].ToString();
            if (entCap.Equals(gCap))
            {
                args.IsValid = true;
            }
            else
            {
                args.IsValid = false;
            }
        }

        bool CheckPassword(String inp)
        {
            bool result = false;
            int cnt = 0;
            if (inp.Length < 8)
```

```
{
    return result;
}
foreach (char c in inp)
{
    if (c >= 'A' && c <= 'Z')
    {
        result = true;
        cnt++;
        break;
    }
}
foreach (char c in inp)
{
    if (c >= 'a' && c <= 'z')
    {
        result = true;
        cnt++;
        break;
    }
}
foreach (char c in inp)
{
    if(c >='0' && c <='9')
    {
        result = true;
        cnt++;
        break;
    }
}
if (cnt==3)
{
    // check for special symbols
    String sym = "~!@#$%^&* _-";
    if (inp.IndexOfAny(sym.ToCharArray()) == -1)
    {
        result = false;
    }
}
else
{
    result = false;
}
return result;
}
```

```
protected void Valpwd_ServerValidate(object source, ServerValidateEventArgs args)
{
    String pwd = args.Value;
    args.IsValid = CheckPassword(pwd);
}

protected void btnRegister_Click(object sender, EventArgs e)
{
    // Check whether page is Valid
    if(Page.IsValid)
    {
        myconn = new SqlConnection();
        myconn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=SocialDB;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSub
netFailover=False";
        String insSql = "insert into dbo.UserDetails values(@
un,@fn,@ln,@em,@gen,@cn,@pwd,@dob)";
        mycmd = new SqlCommand(insSql, myconn);
        mycmd.Parameters.AddWithValue("@un", txtUn.Text);
        mycmd.Parameters.AddWithValue("@fn", txtFn.Text);
        mycmd.Parameters.AddWithValue("@ln", txtLn.Text);
        mycmd.Parameters.AddWithValue("@em", TxtEmail.Text);
        if(radMale.Checked)
        {
            mycmd.Parameters.AddWithValue("@gen", " M ");
        }
        if (radFemale.Checked)
        {
            mycmd.Parameters.AddWithValue("@gen", " F ");
        }
        if(radOther.Checked)
        {
            mycmd.Parameters.AddWithValue("@gen", " O ");
        }
        mycmd.Parameters.AddWithValue("@cn", double.Parse(TxtContact.Text));
        mycmd.Parameters.AddWithValue("@pwd", txtPwd.Text);
        mycmd.Parameters.AddWithValue("@dob", txtDOB.Text);

        // Open the Connection
        myconn.Open();
        int cnt = mycmd.ExecuteNonQuery();
        if(cnt > 0)
        {
            Response.Write("<script>alert('Inserted Successfully')</script>");
        }
        else
        {

```



```
        Response.Write("<script>alert('Insertion Failed')</script>");
    }
    myconn.Close();
}
}

protected void radMale_CheckedChanged(object sender, EventArgs e)
{
}
}
}
```

### GenCaptcha.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Drawing;
using System.Drawing.Imaging;

namespace RegisterUserV1
{
    public partial class GenCaptcha : System.Web.UI.Page
    {
        public String GenerateCap()
        {
            //Size is 6
            String allText =
            "abKLMcdefgQRWhij56789klmnopqrstuvwxyzABCDEFGHINOPXYZ12STUV34";
            Random rnd = new Random();
            StringBuilder sb = new StringBuilder();
            for (int i = 0; i < 6 ; i++)
            {
                int temp = rnd.Next(allText.Length);
                sb.Append(allText[temp]);
            }
            return sb.ToString();
        }
        protected void Page_Load(object sender, EventArgs e)
        {
            //Label1.Text = GenerateCap();
            Bitmap bmp = new Bitmap(150, 80);
            Font myFont = new Font("Monotype Corsiva",20,FontStyle.Strikeout);
            Graphics g = Graphics.FromImage(bmp); //using graphics on blank page
```

```
g.Clear(Color.Aquamarine);
String cap = GenerateCap();
// Create a Session and store Captcha //Creating Temporary Session
Session["cap"] = cap;

Pen p1 = new Pen(Color.MediumBlue,15);
g.DrawRectangle(p1,0,0,150,80);
g.DrawString(cap, myFont,Brushes.Black,15,20);
bmp.Save(Response.OutputStream, ImageFormat.Jpeg);

    }
}
}
```

**Register.aspx.cs**

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

namespace RegisterUserV1
{
    public partial class Register : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void valCaptcha_ServerValidate(object source, ServerValidateEventArgs args)
        {
            String entCap = args.Value;
            String gCap = Session["cap"].ToString();
            if(entCap.Equals(gCap))
            {
                args.IsValid = true;
            }
            else
            {
                args.IsValid = false;
            }
        }

        protected void valDOB_ServerValidate(object source, ServerValidateEventArgs args)
        {
            DateTime enteredDate = DateTime.Parse(args.Value);
```

```
args.IsValid = (age >= 18);
    }
}
}
```

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Register.aspx.cs"
Inherits="RegisterUserV1.Register" %>
```

```
<asp:TextBox ID="txtDOB" runat="server" Font-Size="X-Large" Height="28px"
    TextMode="Date" Width="189px"></asp:TextBox>
```

[illegible]

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="GenCaptcha.aspx.cs"
Inherits="RegisterUserV1.GenCaptcha" %>
```

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

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="RegisterUser.aspx.cs"
Inherits="MySocialNetworkingSite.RegisterUser" %>
```

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

THE MET LEAGUE OF COLLEGES  
**MET**  
AS SHARP AS YOU CAN GET

THE MET LEAGUE OF COLLEGES  
**MET**  
AS SHARP AS YOU CAN GET

[illegible]

```
<br />
<asp:ValidationSummary ID="ValidationSummary4" runat="server"
  ForeColor="#FF5050" />
<br />
</div>
</div>
  <br />
</div>
  <br />
  <br />
</div>
</form>
</div>
</div>
</body>
</html>
```

### Index.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="index.aspx.cs"
Inherits="MySocialNetworkingSite.index" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
  <link href="Content/bootstrap.css" rel="stylesheet" />
  <style type="text/css">
    .auto-style3 {
      margin-left: 9px;
    }
    .auto-style5 {
      width: 129%;
      height: 213px;
    }
    .auto-style6 {
      width: 800px;
      height: 100px;
    }
    .auto-style9 {
      height: 100px;
    }
    .auto-style13 {
      width: 345px;
      height: 37px;
    }
    .auto-style14 {
      height: 37px;
```



```

    }
  </style>
</head>
<body>
  <form id="form1" runat="server">
    <div class="container-fluid">
      <div class="row">
        <table class="auto-style5">
          <tr>
            <td colspan="2" class="auto-style9">
              
            </td>
          </tr>
          <tr>
            <td align="right" class="auto-style13">
              <asp:Label ID="lblUn" runat="server" Font-Size="X-Large" Text="User
              Name"></asp:Label>
            </td>
            <td class="auto-style14">
              <br />
              <asp:TextBox ID="txtun" runat="server" Font-Overline="False"
              Font-Size="X-Large" Width="273px" CssClass="auto-style3"></asp:TextBox>
              <br />
            </td>
          </tr>
          <tr>
            <td align="right" class="auto-style13">
              <asp:Label ID="lblPwd" runat="server" Font-Size="X-Large"
              Text="Password"></asp:Label>
              &nbsp;&nbsp;&nbsp;&nbsp;</td>
            <td align="left" class="auto-style14">
              <br />
              <asp:TextBox ID="txtpwd" runat="server" Font-Overline="False" Font-Size="X-Large"
              Width="274px" CssClass="auto-style3" TextMode="Password"></asp:TextBox>
              <br />
            </td>
          </tr>
          <tr>
            <td align="right" class="auto-style13">
              <br />
              <asp:Button class="btn btn-primary" ID="btnSignIn" runat="server" Font-Size="X-Large"
              Text="Sign In " OnClick="btnSignIn_Click" />
            </td>
            <td align="left" class="auto-style14">
              <br />
              <asp:Button class="btn btn-primary" ID="btnSignUp" runat="server" Font-Size="X-Large"
              Text="Sign Up" OnClick="btnSignUp_Click" PostBackUrl="~/RegisterUser.aspx" />
            </td>
          </tr>
        </table>
      </div>
    </div>
  </form>

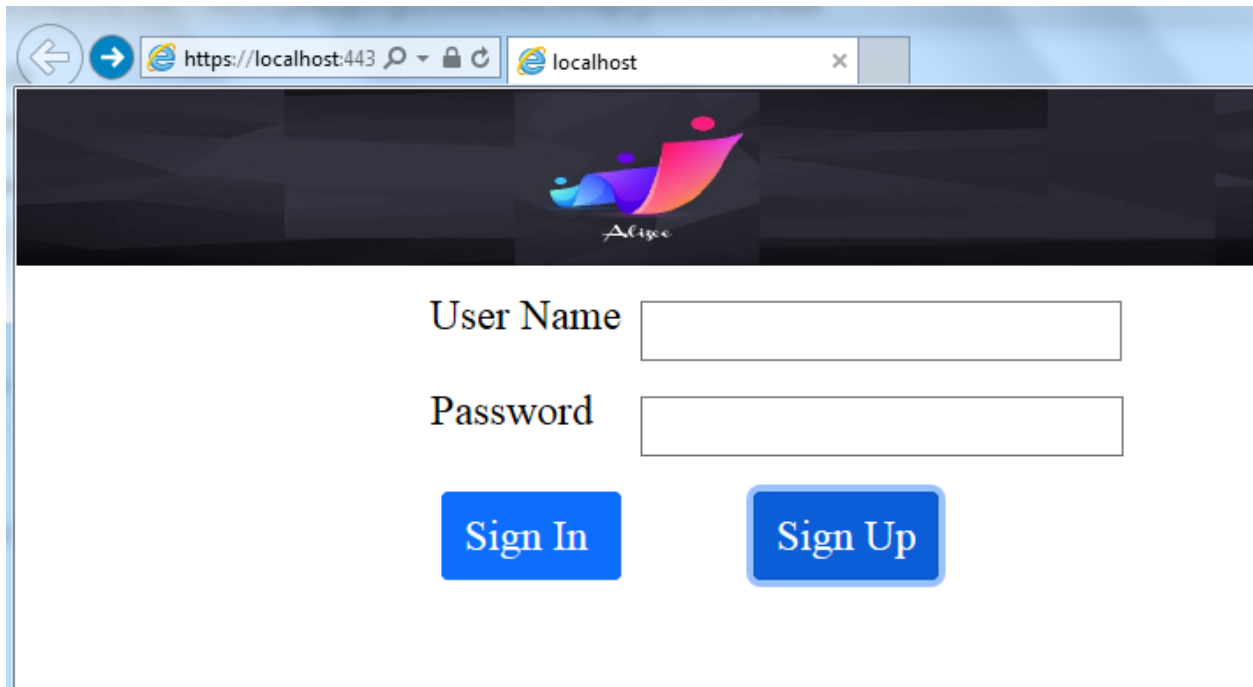
```

# Bhujbal Knowledge City

MET Institute of Computer Science

```
</td>
</tr>
</table>
</div>
</div>
</form>
</body>
</html>
```

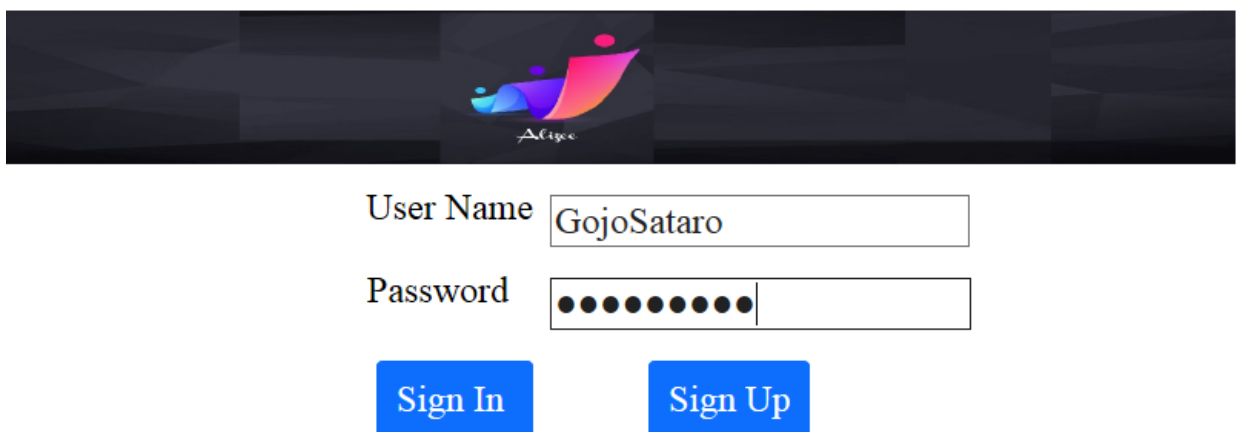
**Output:**



User Name

Password

[Sign In](#) [Sign Up](#)



User Name

Password

[Sign In](#) [Sign Up](#)

# Bhujbal Knowledge City

MET Institute of Computer Science



First name :

Last name :

User Name :

Password :

Re-EnterPassword :

Enter Email :

Enter Contact :

Gender : ☒ Male ☐ Female ☐ Other

DOB :

j74pCx

Enter Captcha :

Register

Password :

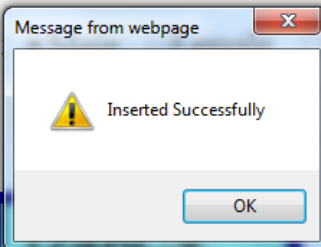
Re-EnterPassword :

Enter Email :

Enter Contact :

Gender : ☒ Male ☐ Female ☐ Other

DOB :



Enter Captcha :

Register

## h23ktp

Register

First Name Can't be Empty  
Last Name Can't be Empty  
Invalid User Name  
Invalid DOB

[illegible]



## Ads.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<Advertisements>
  <Ad>
    <ImageUrl>images/Education.jpg</ImageUrl>

    <NavigateUrl>https://www.met.edu</NavigateUrl>

    <AlternateText>This is Educational Institute</AlternateText>
    <Impressions>10</Impressions>
    <Keyword>K1</Keyword>
  </Ad>

  <Ad>
    <ImageUrl>images/cloud-computing1.jpg</ImageUrl>

    <NavigateUrl>https://www.google.com</NavigateUrl>

    <AlternateText>This is Cloud </AlternateText>
    <Impressions>20</Impressions>
    <Keyword>K1</Keyword>
  </Ad>

  <Ad>
    <ImageUrl>images/india-education.jpg</ImageUrl>

    <NavigateUrl>https://www.instagram.com</NavigateUrl>

    <AlternateText>This is India Education</AlternateText>
    <Impressions>30</Impressions>
    <Keyword>K2</Keyword>
  </Ad>

  <Ad>
    <ImageUrl>images/share-a-coke.png</ImageUrl>

    <NavigateUrl>https://www.coca-colaindia.com/</NavigateUrl>
  </Ad>
</Advertisements>
```

# Bhujbal Knowledge City

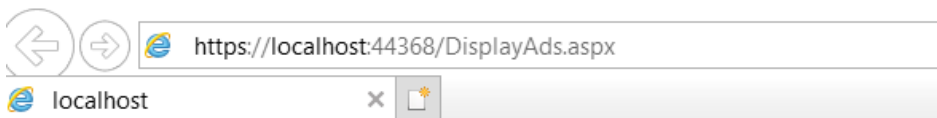
## MET Institute of Computer Science

```
<AlternateText>Welcome this is COCA COLA </AlternateText>  
<Impressions>40</Impressions>  
<Keyword>K2</Keyword>
```

```
</Ad>
```

```
</Advertisements>
```

### Output:

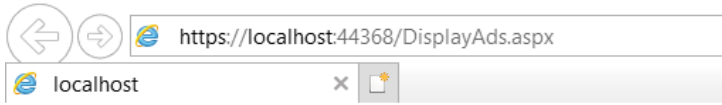


### Ads



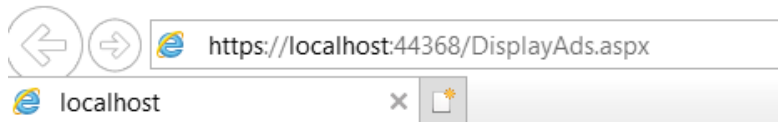
# Bhujbal Knowledge City

MET Institute of Computer Science

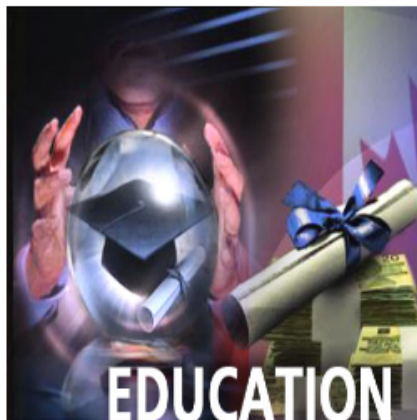


Ads

Ads



Ads





#### 4. Session Counter.

##### Source Code :

###### MainPage.aspx.cs

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

namespace Sessions_Demo
{
    public partial class MainPage : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            // Create a Session

            Session["un"] = txtName.Text; // Server Variable is un to store the value of txtName in Session.
            // Create a Counter

            // Redirect to Welcome Page
            Response.Redirect("~/Welcome.aspx");
            // Redirect to Counter Page
            //Response.Redirect("~/Counter.aspx");

        }
    }
}
```

###### Counter.aspx.cs

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

namespace Sessions_Demo
{
    public partial class Counter : System.Web.UI.Page
```

```
{
    protected void Page_Load(object sender, EventArgs e)
    {
        lblCounter.Text = lblCounter.Text;
        lblCount.Text = "Counter: ";
    }

    protected void btnIn_Click(object sender, EventArgs e)
    {
        if(Session["cntr"]==null)
        {
            lblCount.Text = "This is Your First Visit";
            int cnt = 1;
            Session["cntr"] = cnt.ToString();
        }
        else
        {
            int cnt = int.Parse(Session["cntr"].ToString());
            cnt++;
            lblCount.Text = "This is Visit No: " + cnt;
            Session["cntr"] = cnt.ToString();
        }
    }
}
```

### Welcome.aspx.cs

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

namespace Sessions_Demo
{
    public partial class Welcome : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            lblWelcome.Text = lblWelcome.Text;
            lbltxt.Text = "Welcome: " + Session["un"].ToString();
        }
    }
}
```

# Bhujbal Knowledge City

MET Institute of Computer Science

## Output:

Enter Name :

**Request Details**

**Session Id:** hrespqc430srpwu1liffmeq4  
**Time of Request:** 14-Jul-22 9:49:40 PM  
**Request Encoding:** Unicode (UTF-8)

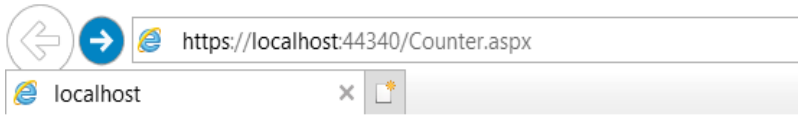
Welcome Page

Welcome: Zeeshan

**Request Details**

**Session Id:** hrespqc430srpwu1liffmeq4  
**Time of Request:** 14-Jul-22 9:50:24 PM  
**Request Encoding:** Unicode (UTF-8)

Session State			
Session Key		Type	Value
un		System.String	Zeeshan
Application State			
Application Key		Type	Value
Request Cookies Collection			
Name		Value	Size
ASP.NET_SessionId		hrespqc430srpwu1liffmeq4	42



Counter Page

Counter:

Increment

### Request Details

**Session Id:** pw1ax2yi21ymxxk014plmlf4  
**Time of Request:** 14-Jul-22 9:53:55 PM  
**Request Encoding:** Unicode (UTF-8)



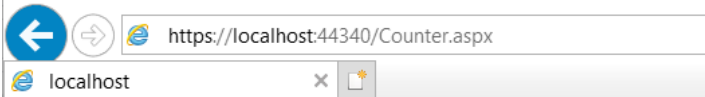
Counter Page

This is Your First Visit

Increment

### Request Details

**Session Id:** ubzenurgotywoqbyzvqh25t  
**Time of Request:** 14-Jul-22 9:55:01 PM  
**Request Encoding:** Unicode (UTF-8)



Counter Page

This is Visit No: 3

Increment

### Request Details

**Session Id:** ubzenurgotywoqbyzvqh25t  
**Time of Request:** 14-Jul-22 9:56:15 PM  
**Request Encoding:** Unicode (UTF-8)



Counter Page

This is Visit No: 9

Increment

### Request Details

**Session Id:** ubzenurgotywoqbyzvqh25t  
**Time of Request:** 14-Jul-22 9:56:43 PM  
**Request Encoding:** Unicode (UTF-8)

## Cookies.aspx.cs

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

{

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

    {

        protected void Page_Load(object sender, EventArgs e)

        {

        }

        protected void btnsubmit_Click(object sender, EventArgs e)

        {

            HttpCookie c1 = new HttpCookie("c1");

            //Response.Cookies.Add("c1");
            HttpCookieCollection cookies;
            cookies = Request.Cookies; int
            cnt = cookies.Count;
            if(cookies.Count == 0)
            { lblvisit.Text = "This is your first visit!";
              cnt = 1;

              Response.Cookies.Add(c1);

            }

            else if (cookies.Count > 0)

            {

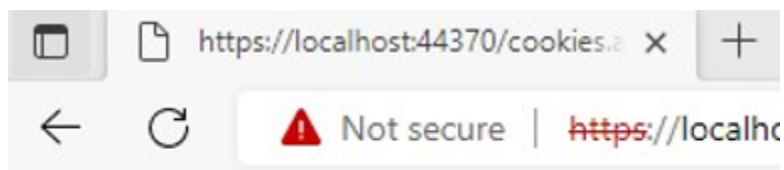
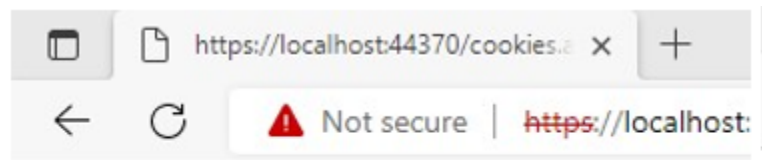
                //cookies = Request.Cookies;

                //if(cookies.Count > 0)
```

## Bhujbal Knowledge City

```
//{  
MET Institute of Computer Science  
  
cnt++;  
  
lblvisit.Text = "This is visit no: " + cnt; //Response.Cookies.Add(c1);  
  
//}  
  
}  
  
cookies = Request.Cookies;  
  
} } }
```

### Output:



### 6. Book Display.

#### Source Code :

##### SelectBook.aspx.cs

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

namespace Book_Cart
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        Dictionary<string, string> books;
        // page in it
        protected void Page_Init(object sender, EventArgs e)
        {
            // Instantiate the Dictionary
            books = new Dictionary<string, string>();
            // Add Books
            books.Add("C++", "Bjarne Stroustrup");
            books.Add("Java", "Ivor Horton");
            books.Add("C", "Dennis Ritchie");
            books.Add("Machine Learning", "Tom Mitchell");
            books.Add("Angels and Daemons", "Dan Brown");
            lstBooks.Items.Clear();
            foreach(String s in books.Keys)
            {
                lstBooks.Items.Add(s);
            }
        }
        protected void Page_Load(object sender, EventArgs e)
        {
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            if(lstBooks.SelectedIndex>=0)
            {
                //Get the Selected Book
                String bn = lstBooks.SelectedValue;
                String bdesc = books[bn];
                // Create a Cookie
                HttpCookie c1 = new HttpCookie(bn, bdesc); // bdesc is Discription
            }
        }
    }
}
```



**SelectBook.aspx**

&lt;/html&gt;

### ViewDetails.aspx.cs

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

namespace Book_Cart
{
    public partial class ViewDetails : System.Web.UI.Page
    {
        HttpCookieCollection cookies;
        protected void Page_Load(object sender, EventArgs e)
        {
            // Fetch All Cookies
            cookies = Request.Cookies;

            // Display Cookies In ListBox
            if(cookies.Count>0)
            {
                for(int i=0; i<cookies.Count; i++)
                {
                    listBox.Items.Add("Book name: " +cookies[i].Name + " Author: "+cookies[i].Value);
                }
            }
            else
            {
                listBox.Items.Add("> No Books Selected. ");
            }
        }
    }
}
```

### ViewDetails.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ViewDetails.aspx.cs"
    Inherits="Book_Cart.ViewDetails" %>

<!DOCTYPE html>

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

[illegible]

## WebConfig

```
<?xml version="1.0" encoding="utf-8"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  https://go.microsoft.com/fwlink/?LinkId=169433
-->
<configuration>
  <system.web>
    <compilation debug="true" targetFramework="4.7.2" />
    <httpRuntime targetFramework="4.7.2" />
    <trace enabled="true" pageOutput="true"/>

  </system.web>
  <system.codedom>
    <compilers>
      <compiler language="c#;cs;csharp" extension=".cs" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, 4.7.2.0, C:\Windows\Microsoft.NET\Framework64\v4.7.2\Microsoft.CodeDom.Providers.DotNetCompilerPlatform.dll" />
      <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb" type="Microsoft.VisualBasic.VBCodeDomProvider, Microsoft.VisualBasic, 10.0.0.0, C:\Windows\Microsoft.NET\Framework64\v4.7.2\Microsoft.VisualBasic.dll" />
    </compilers>
  </system.codedom>
</configuration>
```

**Output:**

# Bhujbal Knowledge City

## MET Institute of Computer Science

Select a Book :

- ☐ C++
- ☐ Java
- ☐ C
- ☐ Machine Learning
- ☐ Angels and Daemons

Add Books

View Details

### Request Details

Session Id:	gajfr5bjt1vqgwkegfmmmt0
Time of Request:	15-06-2022 PM 12:49:45
Request Encoding:	Unicode (UTF-8)

### Trace Information

#### Session State

Session Key	Type	Value
-------------	------	-------

#### Application State

Application Key	Type	Value
-----------------	------	-------

#### Request Cookies Collection

Name	Value	Size
------	-------	------

#### Response Cookies Collection

Name	Value	Size
------	-------	------

#### Headers Collection

Name	Value
------	-------

## Bhujbal Knowledge City

MET Institute of Computer Science

You Have Selected :

Book name: Java Author: Ivor Horton

[Select Another Book](#)

Application Key

Request Cookies Collection

Name

Java

Ivor Horton

## 7. Quotes Display.

**Source Code :**

### Profile.aspx.cs

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

namespace MyProfileWithAjax
{
    public partial class Profile : System.Web.UI.Page
    {
        List<String> quotes;
        Random rnd;
        protected void Page_Load(object sender, EventArgs e)
        {
            rnd = new Random();
            quotes = new List<string>();
            quotes.Add("Time is Precious");
            quotes.Add("Nothing is Impossible");
            quotes.Add("Make people Happy Around You");
            lblQ.Text = quotes[rnd.Next(quotes.Count)];
        }

        protected void Timer1_Tick(object sender, EventArgs e)
        {
            lblQ.Text = quotes[rnd.Next(quotes.Count)];
        }

        protected void Timer2_Tick(object sender, EventArgs e)
        {
            lblC.Text = DateTime.Now.ToLongTimeString();
        }
    }
}
```

### Profile.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Profile.aspx.cs"
Inherits="MyProfileWithAjax.Profile" %>
```

<br />

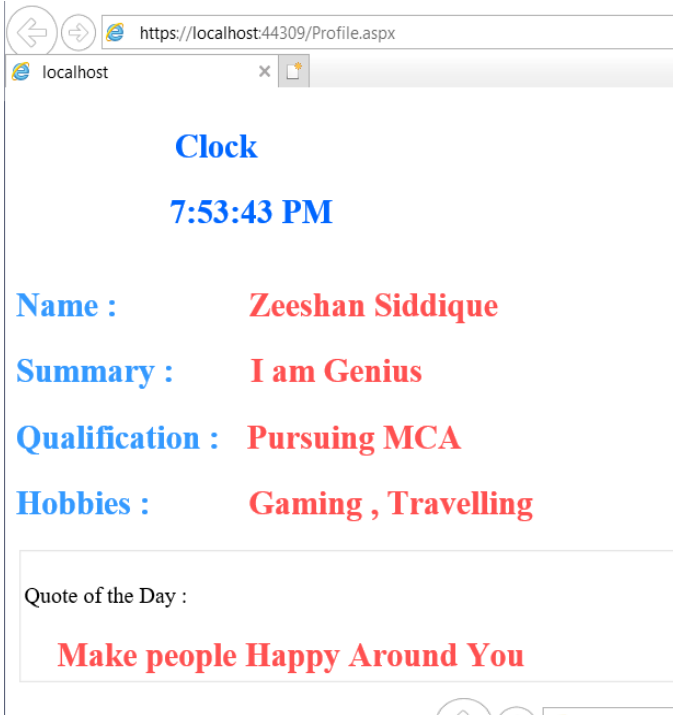


[illegible]

# Bhujbal Knowledge City

MET Institute of Computer Science

## Output:



https://localhost:44309/Profile.aspx

localhost

**Clock**

**7:53:43 PM**

**Name :** Zeeshan Siddique

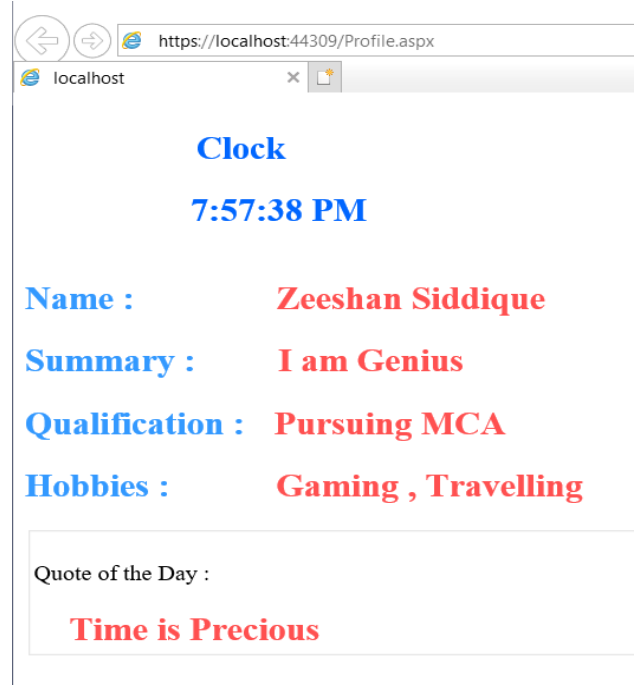
**Summary :** I am Genius

**Qualification :** Pursuing MCA

**Hobbies :** Gaming , Travelling

Quote of the Day :

**Make people Happy Around You**



https://localhost:44309/Profile.aspx

localhost

**Clock**

**7:57:38 PM**

**Name :** Zeeshan Siddique

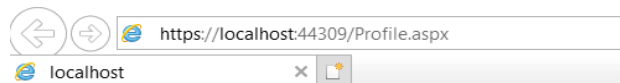
**Summary :** I am Genius

**Qualification :** Pursuing MCA

**Hobbies :** Gaming , Travelling

Quote of the Day :

**Time is Precious**



https://localhost:44309/Profile.aspx

localhost

**Clock**

**8:00:21 PM**

**Name :** Zeeshan Siddique

**Summary :** I am Genius

**Qualification :** Pursuing MCA

**Hobbies :** Gaming , Travelling

Quote of the Day :

**Nothing is Impossible**



**Output:**



## Without Ajax

14-Jul-22 10:12:17 PM

## With Ajax

### 9. Simple Web Service Calculator.

Source Code :

CalculatorProducer :-

Calculator.asmx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;

namespace CalculatorProducer
{
    /// <summary>
    /// Summary description for Calculator
    /// </summary>
    [WebService(Namespace = "http://met.edu/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]
    // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the
    // following line.
    // [System.Web.Script.Services.ScriptService]
    public class Calculator : System.Web.Services.WebService
    {
        public void Method1()
        {

        }

        [WebMethod]
        public string HelloWorld()
        {
            return "Hello World";
        }
        [WebMethod]
        public int Add(int a, int b)
        {
            return a + b;
        }
        [WebMethod]
        public int Sub(int a, int b)
        {
            return a - b;
        }
        [WebMethod]
        public int Mul(int a, int b)
```

```
{
    return a * b;
}
[WebMethod]
public double Div(double a, double b)
{
    return a / b;
}
}
```

### **CalculatorConsumer :-**

#### **Main.aspx.cs**

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

namespace CalculatorConsumer
{
    public partial class Main : System.Web.UI.Page
    {
        localhost.Calculator c1;
        protected void Page_Load(object sender, EventArgs e)
        {
            c1 = new localhost.Calculator();
            Label1.Text = c1.HelloWorld();
        }

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

#### **Main.aspx**

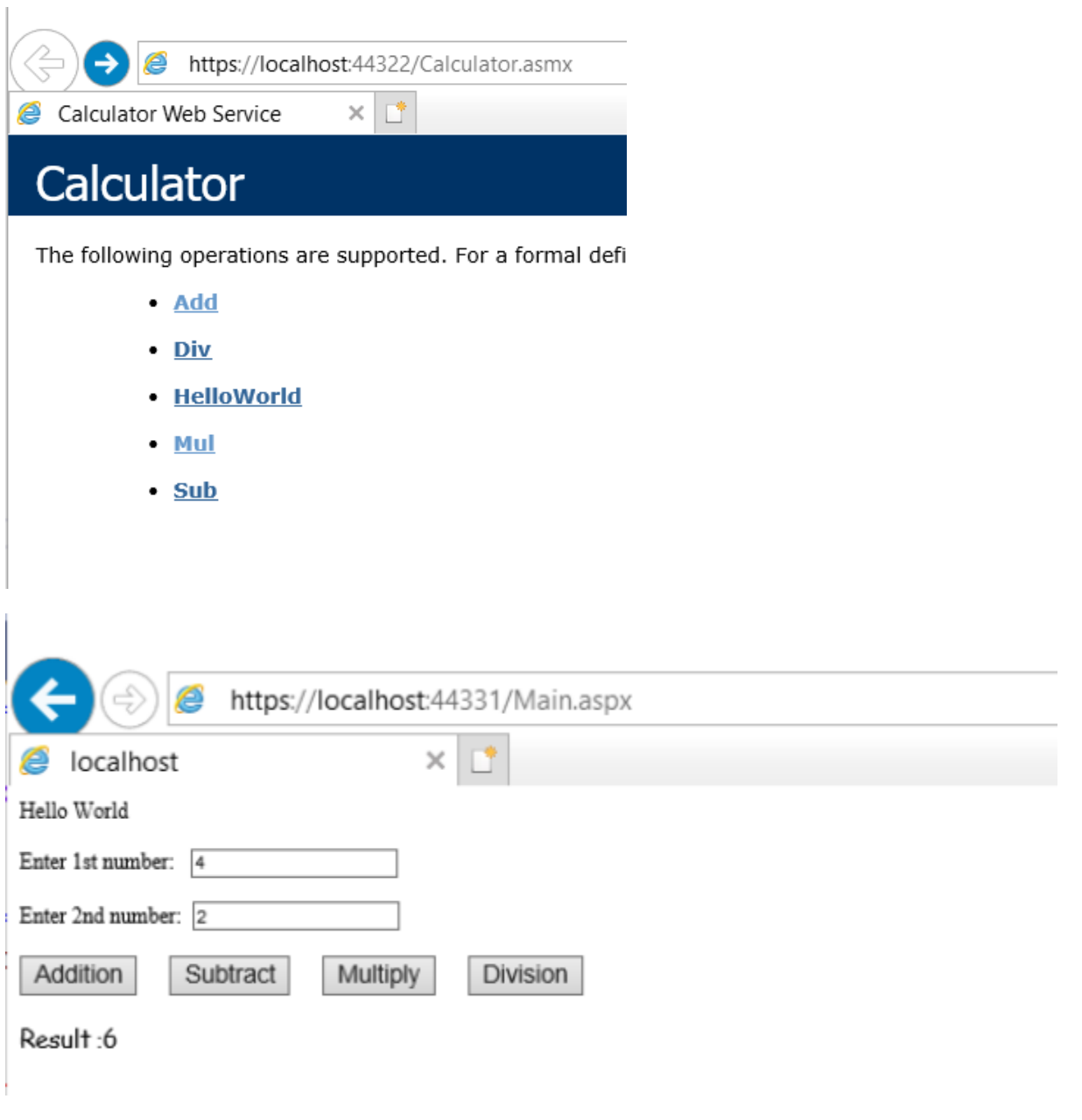
```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Main.aspx.cs"
Inherits="CalculatorConsumer.Main" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
```

[illegible]

### Output:

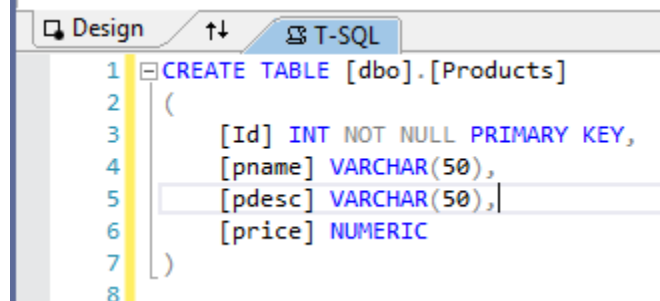




### 10. Web Service with Database.

Source Code :

#### DB ProducerDB



#### ProductProducer

##### Product.asmx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;
using System.Data;
using System.Data.SqlClient;
```

```
namespace ProductProducer
```

```
{
```

```
    /// <summary>
```

```
    /// Summary description for Product
```

```
    /// </summary>
```

```
    [WebService(Namespace = "http://met.edu/")]
```

```
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
```

```
    [System.ComponentModel.ToolboxItem(false)]
```

// To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line.

```
    // [System.Web.Script.Services.ScriptService]
```

```
    public class Product : System.Web.Services.WebService
```

```
    {
```

```
        //Disconnected Approach
```

```
        SqlConnection myConn;
```

```
        SqlCommand mycmd;
```

```
        SqlDataAdapter myAdpt;
```

```
        DataSet myDs;
```

```
[WebMethod]
public DataSet GetProducts()
{
    myConn = new SqlConnection();
    myConn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=ProductDB;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSub
netFailover=False";
    mycmd = new SqlCommand("Select * from dbo.Products", myConn);

    myAdpt = new SqlDataAdapter(mycmd);
    myDs = new DataSet();
    // Telling Adapter to fill in dataset
    myAdpt.Fill(myDs);
    // Now send it to client
    return myDs;
}

[WebMethod]
public DataSet GetProductByName(String name)
{
    myConn = new SqlConnection();
    myConn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=ProductDB;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;MultiSub
netFailover=False";
    mycmd = new SqlCommand("Select * from dbo.Products where pname= @pn",
myConn);
    mycmd.Parameters.AddWithValue("@pn", name);
    myAdpt = new SqlDataAdapter(mycmd);
    myDs = new DataSet();
    // Telling Adapter to fill in dataset
    myAdpt.Fill(myDs);
    // Now send it to client
    return myDs;
}
}
```

### ProductConsumer

#### ProductConsume.aspx.cs

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

namespace ProductConsumer
{
    public partial class ProductConsume : System.Web.UI.Page
    {
        ServiceReference1.ProductSoapClient p1;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnData_Click(object sender, EventArgs e)
        {
            p1 = new ServiceReference1.ProductSoapClient();
            DataSet data = p1.GetProducts();
            GridView1.DataSource = data;
            GridView1.DataBind();
        }

        protected void btnName_Click(object sender, EventArgs e)
        {
            p1 = new ServiceReference1.ProductSoapClient();
            DataSet data = p1.GetProductByName(TextBox1.Text);
            GridView1.DataSource = data;
            GridView1.DataBind();
        }
    }
}
```

# MET Institute of Computer Science

**ProductConsume.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ProductConsume.aspx.cs"
Inherits="ProductConsumer.ProductConsume" %>
```

&lt;!DOCTYPE html&gt;

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

```
<head runat="server">
```

&lt;title&gt;&lt;/title&gt;

&lt;/head&gt;

<body>

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

<div>

[illegible]

<br />

```
 <asp:Button ID="btnData" runat="server" Font-Size="X-Large" OnClick="btnData_Click"
Text="FullData" Width="341px" />
```

<br />

```
<asp:TextBox ID="TextBox1" runat="server" Font-Size="X-Large"></asp:TextBox>
```

```
<asp:Button ID="btnName" runat="server" Font-Size="X-Large"
```

OnClick="btnName Click" Text="Product By Name" Width="207px" />

<br />

[illegible]

<br />

```
<asp:GridView ID="GridView1" runat="server" CellPadding="4" ForeColor="#333333"
GridLines="None">
```

```
<AlternatingRowStyle BackColor="White" />
```

```
<EditRowStyle BackColor="#2461BF" />
```

```
<FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
```

```
<HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
```

```
<PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />
```

&lt;RowStyle BackColor="#EFF3FB" /&gt;

```
<SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333"
```

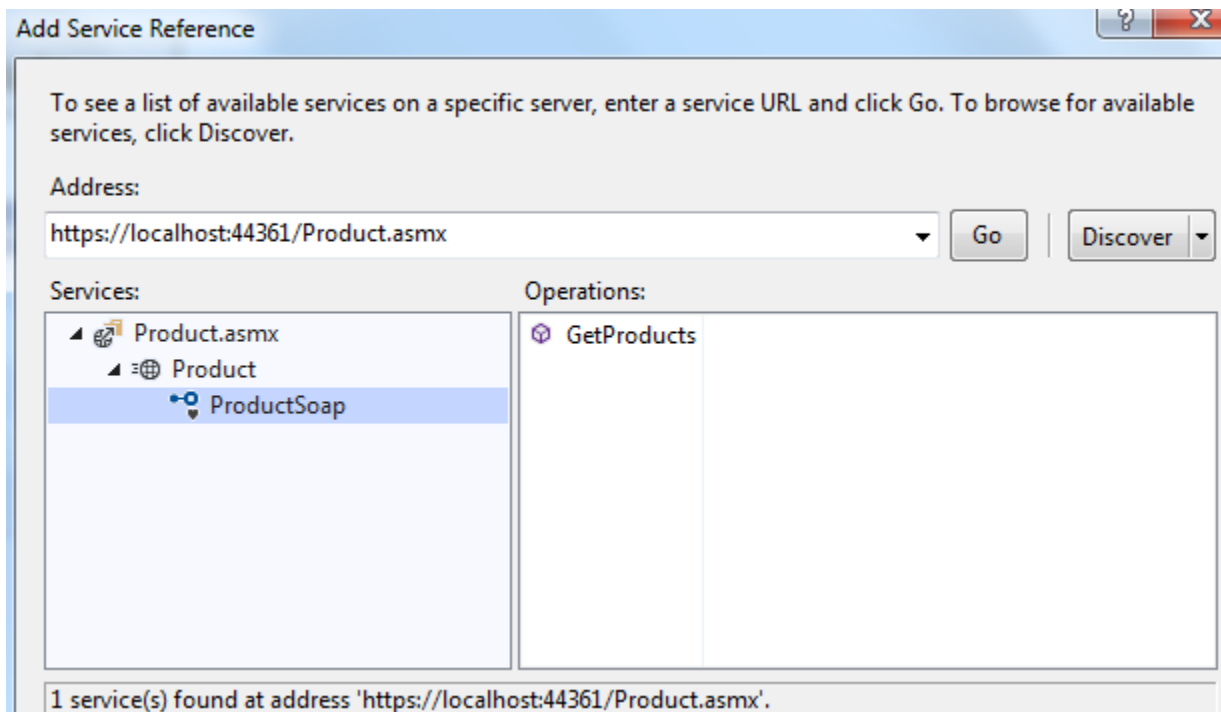
 $\angle$ 

<SortedAscendingCellStyle BackColor="#F5F7FB" />

```
<SortedAscendingHeaderStyle BackColor="#6D95E1" />
```

```
<SortedDescendingCellStyle BackColor="#E9EBEF" />
<SortedDescendingHeaderStyle BackColor="#4870BE" />
</asp:GridView>
</div>
</form>
</body>
</html>
```

### service Reference - and click Discover button



**Add Service Reference**

To see a list of available services on a specific server, enter a service URL and click Go. To browse for available services, click Discover.

Address:

Services:	Operations:
<ul style="list-style-type: none"> <li>Product.asmx <ul style="list-style-type: none"> <li>Product <ul style="list-style-type: none"> <li><b>ProductSoap</b></li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>GetProducts</li> </ul>

1 service(s) found at address 'https://localhost:44361/Product.asmx'.

### Output:

FullData

Id	pname	pdesc	price
1	Samsung J2	Samsung Smart Phone	20000
2	Nokia	Smart Phone	30000
3	Apple 13	IOS Smart Phone	100000
4	One Plus	Smart Phone	60000
5	Vivo V11 pro	Smart Phone	22000

# Bhujbal Knowledge City

MET Institute of Computer Science

FullData

Nokia

Product By Name

Id	pname	pdesc	price
2	Nokia	Smart Phone	30000

### 11. WCF Calculator.

#### Source Code :

##### Client.aspx.cs

using System;

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

namespace WcfService1

```
{ public partial class CLient : System.Web.UI.Page  
{
```

```
    ServiceReference1.Service1Client c1 = new ServiceReference1.Service1Client();  
    protected void Page_Load(object sender, EventArgs e)  
    { }
```

```
    protected void BtnAdd_Click(object sender, EventArgs e)  
    { int num1 = int.Parse(txtNum1.Text); int  
      num2 = int.Parse(txtNum2.Text);  
      lblResult.Text = c1.add(num1, num2).ToString();  
    }
```

```
    protected void btnSub_Click(object sender, EventArgs e)  
    { int num1 = int.Parse(txtNum1.Text); int  
      num2 = int.Parse(txtNum2.Text);  
      lblResult.Text = c1.sub(num1, num2).ToString();  
    }
```

```
    protected void btnMul_Click(object sender, EventArgs e)  
    { int num1 = int.Parse(txtNum1.Text); int  
      num2 = int.Parse(txtNum2.Text);  
      lblResult.Text = c1.mul(num1, num2).ToString();  
    }
```

```
    protected void btnDiv_Click(object sender, EventArgs e)  
    { int num1 = int.Parse(txtNum1.Text); int  
      num2 = int.Parse(txtNum2.Text);  
      lblResult.Text = c1.div(num1, num2).ToString(); }  
    protected void btnDisp_Click(object sender, EventArgs e)  
    {
```

```
        lblResult.Text = c1.getCustomer().Id.ToString()+" " + c1.getCustomer().Uname
```

```
;
```

```
    }  
}
```

```
}
```

Service1.cs using  
System;

```
using System.Collections.Generic;
```

```
using System.Linq;  
using System.Runtime.Serialization; using  
System.ServiceModel; using  
System.ServiceModel.Web; using  
System.Text;
```

```
namespace CalWCFService {
```

```
    // NOTE: You can use the "Rename" command on the "Refactor" menu to change the interface name  
    "IService1" in both code and config file together.
```

```
    [ServiceContract] public  
    interface IService1 {
```

```
        [OperationContract] string  
        GetData(int value);
```

```
        [OperationContract] int  
        add(int a, int b);
```

```
        [OperationContract] int  
        sub(int a, int b);
```

```
        [OperationContract] int  
        mul(int a, int b);
```

```
        [OperationContract] int  
        div(int a, int b);
```

```
        [OperationContract]  
        Customer getCustomer();
```

```
        // TODO: Add your service operations here
```

```
    }
```

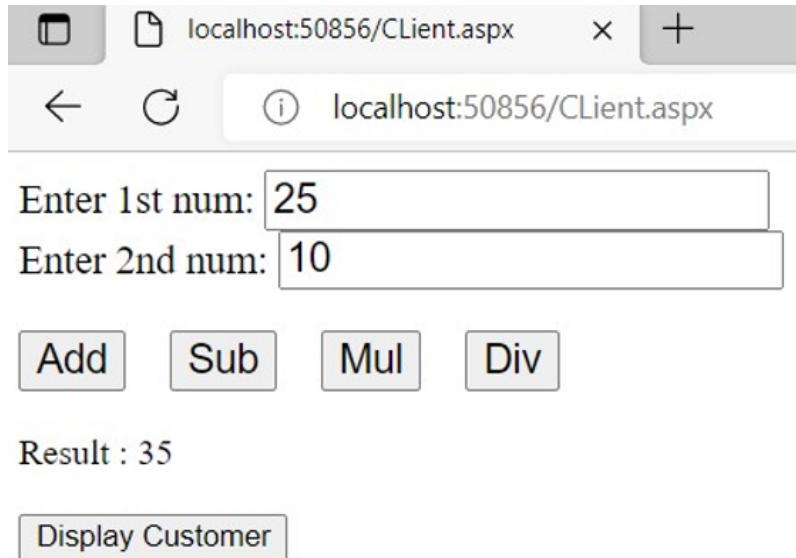
```
    [DataContract] public class  
    Customer
```

```
    { int id; String  
      uname;  
      [DataMember  
      er] public  
      int Id  
      { get  
        { return id;  
      } set  
        { id = value;  
      }  
    }
```

```
    } [DataMember] public  
    String Uname  
    { get  
      { return uname; } set  
      { uname = value;  
    }  
    }  
}
```



**Output:**



The screenshot shows a web browser window with the address bar displaying 'localhost:50856/Client.aspx'. The page content includes two input fields for numbers, with the first containing '25' and the second containing '10'. Below these are four buttons labeled 'Add', 'Sub', 'Mul', and 'Div'. The text 'Result : 35' is displayed below the buttons. At the bottom, there is a button labeled 'Display Customer'.

localhost:50856/Client.aspx

Enter 1st num: 25

Enter 2nd num: 10

Add Sub Mul Div

Result : 35

Display Customer

---

### 12. Master Pages.

#### Source Code :

##### Site1.Master

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site1.master.cs"
Inherits="Master_Pages_Demo.Site1" %>
<!DOCTYPE html>

<html>
<head runat="server">
  <title></title>
  <asp:ContentPlaceHolder ID="head" runat="server">
  </asp:ContentPlaceHolder>
  <style type="text/css">
    .auto-style1 {
      margin-left: 160px;
    }
  </style>
</head>
<body>
  <form id="form1" runat="server">
    <asp:Image ID="imgHeader" runat="server" Height="203px" Width="934px"
      ImageUrl="~/images/mySocial2.jpg" />
    <br />
    <br />
    <div class="auto-style1">
      <asp:Menu ID="Menu1" runat="server" BackColor="#B5C7DE"
        DynamicHorizontalOffset="2" Font-Names="Verdana" Font-Size="X-Large"
        ForeColor="#284E98" StaticSubMenuIndent="10px" Orientation="Horizontal"
        OnMenuItemClick="Menu1_MenuItemClick">
        <DynamicHoverStyle BackColor="#284E98" ForeColor="White" />
        <DynamicMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
        <DynamicMenuStyle BackColor="#B5C7DE" />
        <DynamicSelectedStyle BackColor="#507CD1" />
        <Items>
          <asp:MenuItem Text="Home " Value="Home "
            NavigateUrl="Home.aspx"></asp:MenuItem>
          <asp:MenuItem Text="Profile" Value="Profile"
            NavigateUrl="Profile.aspx"></asp:MenuItem>
          <asp:MenuItem Text="Friends" Value="Friends"></asp:MenuItem>
          <asp:MenuItem Text="Birthdays" Value="Birthdays"></asp:MenuItem>
          <asp:MenuItem Text="Gallery" Value="Gallery"></asp:MenuItem>
          <asp:MenuItem Text="Feed " Value="Feed "></asp:MenuItem>
          <asp:MenuItem Text="About " Value="About "></asp:MenuItem>
        </Items>
        <StaticHoverStyle BackColor="#284E98" ForeColor="White" />
        <StaticMenuItemStyle HorizontalPadding="5px" VerticalPadding="2px" />
      </div>
    </form>
  </body>
</html>
```

## Profile.aspx.cs

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

namespace Master_Pages_Demo
{
    public partial class Profile : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void btnUpload_Click(object sender, EventArgs e)
        {
            // Check User has Selected the File or Not
            if(picUpload.HasFile)
            {
                if (picUpload.PostedFile.ContentType.Equals(@"image/jpeg"))
                {
                    try
                    {
                        picUpload.SaveAs(@"D:\1259\Master Pages Demo\profilepics\" +
```

[illegible]

**Bhujbal Knowledge City**  
MET Institute of Computer Science

[illegible]

```
   <asp:FileUpload ID="picUpload" runat="server" Font-Size="X-Large" />
```

<br />

<br />

[illegible]

```
<asp:Button ID="btnUpload" runat="server" Font-Size="X-Large" OnClick="btnUpload_Click"
Text="Upload" />
```

<br />

<br />

[illegible]  

```
<asp:Label
ID="Label1" runat="server"></asp:Label>
```

&lt;br /&gt;&lt;br /&gt;&lt;/asp:Content&gt;

### Home.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site1.Master" AutoEventWireup="true"
CodeBehind="Home.aspx.cs" Inherits="Master_Pages_Demo.Home" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

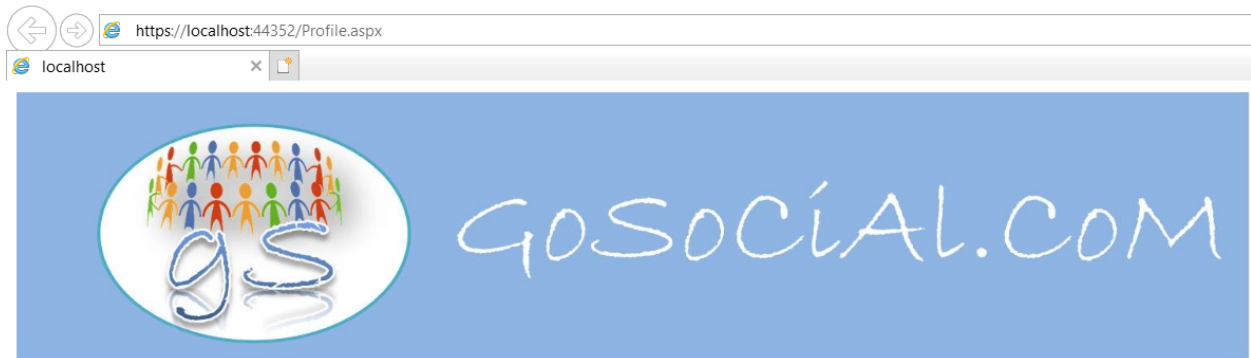
```
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
```

This is Home Page

```
</asp:Content>
```

### Output:



Upload Profile Picture :  Browse...

Upload

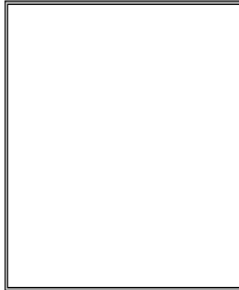
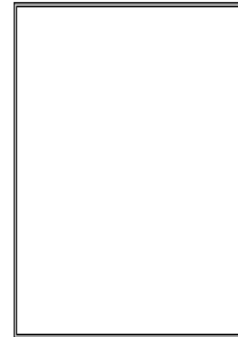


Image must be jpeg

Upload Profile Picture :  Browse...

Upload



You have not selected a File

Copyright@GoSocial.com 2021 - 2023

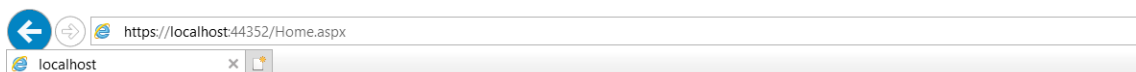
[Home](#) [Profile](#) [Friends](#) [Birthdays](#) [Gallery](#) [Feed](#) [About](#)

Upload Profile Picture :  Browse...

Upload



File uploaded Successfully  
image/jpeg



[Home](#) [Profile](#) [Friends](#) [Birthdays](#) [Gallery](#) [Feed](#) [About](#)

This is Home Page

Copyright@GoSocial.com 2021 - 2023

### 13. Stopwatch & Timer using Ajax.

Source Code :

#### DisplayStopwatch.aspx.cs

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

namespace StopwatchDemo
{
    public partial class DisplayStopwatch : System.Web.UI.Page
    {
        static int mins, secs;
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Timer1_Tick(object sender, EventArgs e)
        {
            secs++;
            lblsecs.Text = secs.ToString();
            if(secs > 59)
            {
                mins++;
                lblmins.Text = mins.ToString();
                secs = 0;
            }
        }

        protected void btnstop_Click(object sender, EventArgs e)
        {
            Timer1.Enabled = false;
            Button temp = (Button)sender;
            if (temp.Text.Equals("Stop"))
            {
                btnstop.Text = "Resume";
                Timer1.Enabled = false;
            }
            else if (temp.Text.Equals("Resume"))
            {
                btnstop.Text = "Stop";
                Timer1.Enabled = true;
            }
        }
    }
}
```



```

    }

    protected void btnrestart_Click(object sender, EventArgs e)
    {
        lblmins.Text = "0";
        lblsecs.Text = "0";
    }

    protected void btnstart_Click(object sender, EventArgs e)
    {
        Timer1.Enabled = true;
        lblmins.Text = mins.ToString();
        lblsecs.Text = secs.ToString();
    }
}
}

```

## DisplayStopwatch.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="DisplayStopwatch.aspx.cs"
Inherits="StopwatchDemo.DisplayStopwatch" %>
```

[illegible]

# MET Institute of Computer Science

```
<asp:Button ID="btnstop" runat="server" Font-Size="X-Large" OnClick="btnstop_Click"
    Text="Stop" />
<asp:Button ID="btnrestart" runat="server" Font-Size="X-Large"
    OnClick="btnrestart_Click" Text="Restart" />
<br />
<asp:Timer ID="Timer1" runat="server" Enabled="False" Interval="1000"
    OnTick="Timer1_Tick">
</asp:Timer>
</div>
</form>
</body>
</html>
```

## DisplayTimer.aspx.cs

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

namespace StopwatchDemo
{
    public partial class DisplayTimer : System.Web.UI.Page
    {
        static int mins, secs = 60;

        protected void btnstart_Click(object sender, EventArgs e)
        {
            btnstart.Enabled = false;
            mins = int.Parse(txttime.Text);
            lbltimer.Text = mins + "m : " + "0s";
            //decrement mins
            mins--;
            secs = 60;
            Timer1.Enabled = true;
            btnstop.Enabled = true;
        }

        protected void Timer1_Tick(object sender, EventArgs e)
        {
            if(mins >= 0)
            {
                if(secs > 0)
                {
                    secs--;
                    lbltimer.Text = mins + "m : " + secs + "s";
                }
            }
        }
    }
}
```

```
    }
    else
    {
        mins--;
        secs = 60;
    }
}
else
{
    Timer1.Enabled = false;
}
}

protected void btnstop_Click(object sender, EventArgs e)
{
    Button temp = (Button)sender;
    if (temp.Text.Equals("Stop"))
    {
        btnstop.Text = "Resume";
        Timer1.Enabled = false;
    }
    else if(temp.Text.Equals("Resume"))
    {
        btnstop.Text = "Stop";
        Timer1.Enabled = true;
    }
}

protected void btnreset_Click(object sender, EventArgs e)
{
    btnstart.Enabled = true;
    txttime.Text = "";
    btnstop.Enabled = false;
    Timer1.Enabled = false;
    //mins = 0;
    lbltimer.Text = "";
}

protected void Page_Load(object sender, EventArgs e)
{
}
}
```

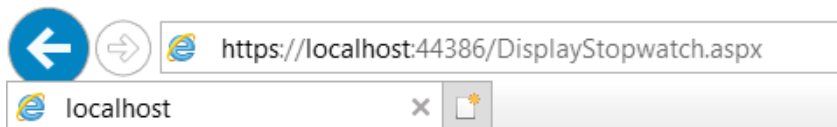
### **DisplayTimer.aspx**

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="DisplayTimer.aspx.cs"
Inherits="StopwatchDemo.DisplayTimer" %>
```

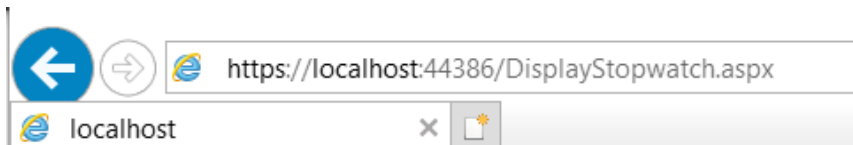
[illegible]

```
Enabled="False" />
<br />
<asp:Timer ID="Timer1" runat="server" Enabled="False" Interval="1000"
    OnTick="Timer1_Tick">
</asp:Timer>
</div>
</form>
</body>
</html>
```

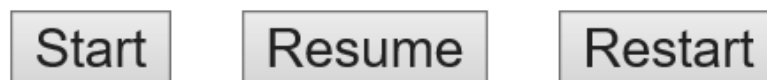
### Output:

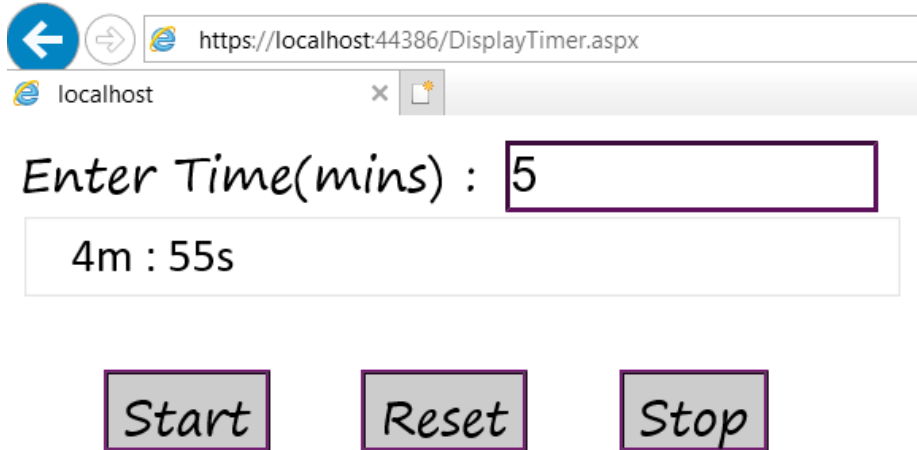


0 mins 8 secs



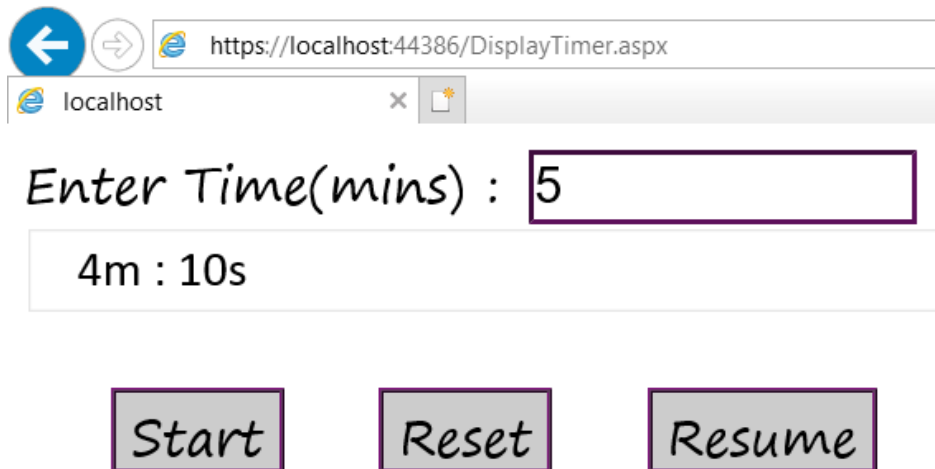
0 mins 45 secs





Enter Time(mins) :

4m : 55s



Enter Time(mins) :

4m : 10s

---

### 14. Mvc Birthday Party.

#### Source Code :

##### HomeController.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;

namespace Birthday_Invitation.Controllers
{
    public class HomeController : Controller
    {
        // GET: Home
        public ActionResult Index()
        {
            //Fetch current Time
            int hour = DateTime.Now.Hour;
            if(hour < 12)
            {
                ViewBag.Greeting = "Good Morning! ";
            }
            else if(hour <16)
            {
                ViewBag.Greeting = "Good Afternoon! ";
            }
            else
            {
                ViewBag.Greeting = "Good Evening! ";
            }
            return View();
        }
        // Create An Action
        public ActionResult RsvpForm()
        {
            return View();
        }
    }
}
```

### GuestResponse.cs

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

namespace Birthday_Invitation.Models
{
    public class GuestResponse
    {
        public virtual String GuestName { get; set; }

        public virtual String Email { get; set; }

        public virtual String ContactNo { get; set; }

        public bool WillAttend { get; set; }

        public bool Veg { get; set; }
    }
}
```

### Index.cshtml

```
@{
    ViewBag.Title = "Index";
}

<h1> Welcome to Nidhi's Birthday Invitation :) </h1>
<div>
    @ViewBag.Greeting
    <br />
    <h2>You are Invited To Nidhi's Birthday Party! </h2>
    <p>We are going to have a very exciting Party! </p>
    <br />
    @Html.ActionLink("RSVP Form","RsvpForm")
</div>
```

### RsvpForm.cshtml

```
@model Birthday_Invitation.Models.GuestResponse

@{
    ViewBag.Title = "RsvpForm";
}
```



}

<h2>Nidhi's Birthday :) </h2>

@using (Html.BeginForm())

{

<p>Your Name: @Html.TextBoxFor(x=>x.GuestName)</p>

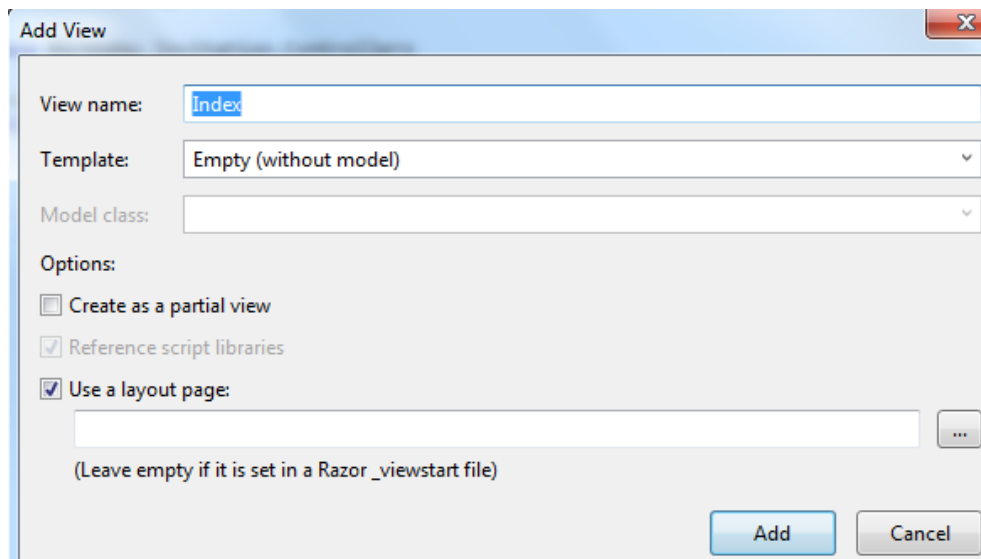
<p>Your Email ID: @Html.TextBoxFor(x=>x.Email)</p>

<p>Your Contact No: @Html.TextBoxFor(x=>x.ContactNo)</p>

<p>Will You Attend ? </p>

}

### Output:



Add View

View name:

Template:

Model class:

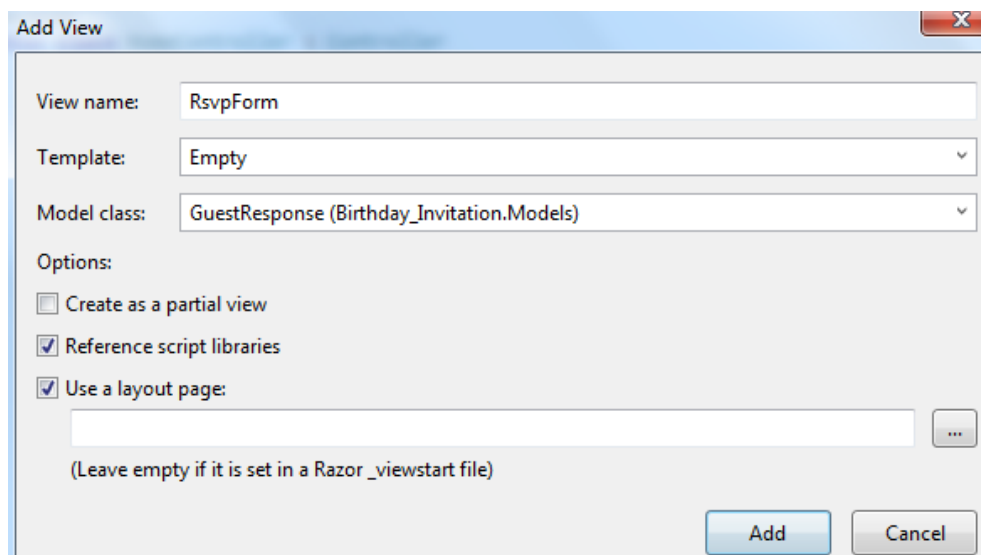
Options:

☐ Create as a partial view

☒ Reference script libraries

☒ Use a layout page:

(Leave empty if it is set in a Razor \_viewstart file)



Add View

View name:

Template:

Model class:

Options:

☐ Create as a partial view

☒ Reference script libraries

☒ Use a layout page:

(Leave empty if it is set in a Razor \_viewstart file)

☐ [Application name](#)

## Welcome to Nidhi's Birthday Invitation :)

Good Afternoon!

### You are Invited To Nidhi's Birthday Party

---

© 2022 - My ASP.NET Application

☐ [Application name](#)

## Nidhi's Birthday :)

Your Name:

Your Email ID:

Your Contact No:

Will You Attend ?

Food Preference ?

---

© 2022 - My ASP.NET Application

---

## 15. Teachers Info in Mvc.

### Source Code :

#### TeachersController.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using Teachers_Info.Data;
using Teachers_Info.Models;

namespace Teachers_Info.Controllers
{
    public class TeachersController : Controller
    {
        private Teachers_InfoContext db = new Teachers_InfoContext();

        // GET: Teachers
        public ActionResult Index()
        {
            return View(db.Teachers.ToList());
        }

        // GET: Teachers/Details/5
        public ActionResult Details(int? id)
        {
            if (id == null)
            {
                return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
            }
            Teacher teacher = db.Teachers.Find(id);
            if (teacher == null)
            {
                return HttpNotFound();
            }
            return View(teacher);
        }
    }
}
```

```
// GET: Teachers/Create
public ActionResult Create()
{
    return View();
}

// POST: Teachers/Create
// To protect from overposting attacks, enable the specific properties you want to bind to,
for
// more details see https://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Create([Bind(Include =
"TeacherId,TeacherName,TeacherQual,YearsofExp")] Teacher teacher)
{
    if (ModelState.IsValid)
    {
        db.Teachers.Add(teacher);
        db.SaveChanges();
        return RedirectToAction("Index");
    }

    return View(teacher);
}

// GET: Teachers/Edit/5
public ActionResult Edit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Teacher teacher = db.Teachers.Find(id);
    if (teacher == null)
    {
        return HttpNotFound();
    }
    return View(teacher);
}

// POST: Teachers/Edit/5
```

```
// To protect from overposting attacks, enable the specific properties you want to bind to, for
// more details see https://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include =
"TeacherId,TeacherName,TeacherQual,YearsofExp")] Teacher teacher)
{
    if (ModelState.IsValid)
    {
        db.Entry(teacher).State = EntityState.Modified;
        db.SaveChanges();
        return RedirectToAction("Index");
    }
    return View(teacher);
}

// GET: Teachers/Delete/5
public ActionResult Delete(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Teacher teacher = db.Teachers.Find(id);
    if (teacher == null)
    {
        return HttpNotFound();
    }
    return View(teacher);
}

// POST: Teachers/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public ActionResult DeleteConfirmed(int id)
{
    Teacher teacher = db.Teachers.Find(id);
    db.Teachers.Remove(teacher);
    db.SaveChanges();
    return RedirectToAction("Index");
}
```

```
protected override void Dispose(bool disposing)
{
    if (disposing)
    {
        db.Dispose();
    }
    base.Dispose(disposing);
}
}
```

### **Teacher.cs**

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

namespace Teachers_Info.Models
{
    public class Teacher
    {
        public virtual int TeacherId { get; set; }

        public virtual String TeacherName { get; set; }

        public virtual String TeacherQual { get; set; }

        public virtual int YearsofExp { get; set; }
    }
}
```

### **Index.cshtml**

```
@model IEnumerable<Teachers_Info.Models.Teacher>

@{
    ViewBag.Title = "Index";
}

<h2>Index</h2>

<p>
    @Html.ActionLink("Create New", "Create")
</p>
```

```
</p>
<table class="table">
  <tr>
    <th>
      @Html.DisplayNameFor(model => model.TeacherName)
    </th>
    <th>
      @Html.DisplayNameFor(model => model.TeacherQual)
    </th>
    <th>
      @Html.DisplayNameFor(model => model.YearsofExp)
    </th>
  </tr>

  @foreach (var item in Model) {
    <tr>
      <td>
        @Html.DisplayFor(modelItem => item.TeacherName)
      </td>
      <td>
        @Html.DisplayFor(modelItem => item.TeacherQual)
      </td>
      <td>
        @Html.DisplayFor(modelItem => item.YearsofExp)
      </td>
      <td>
        @Html.ActionLink("Edit", "Edit", new { id=item.TeacherId }) |
        @Html.ActionLink("Details", "Details", new { id=item.TeacherId }) |
        @Html.ActionLink("Delete", "Delete", new { id=item.TeacherId })
      </td>
    </tr>
  }
</table>
```

**Output:**

Add Controller ⌵

Model class:

Teacher (Teachers\_Info.Models) ⌵

Data context class:

Teachers\_Info.Data.Teachers\_InfoContext ⌵ +

☐ Use async controller actions

Views:

☒ Generate views

☒ Reference script libraries

☒ Use a layout page:

...

(Leave empty if it is set in a Razor \_viewstart file)

Controller name:

TeachersController

Add

Cancel

Application name

## Index

[Create New](#)

**TeacherName TeacherQual YearsofExp**

---

© 2022 - My ASP.NET Application

Application name

## Index

[Create New](#)

**TeacherName TeacherQual YearsofExp**

Omprakash	Phd	18	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Flavia	Phd	10	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Sarla	Phd	5	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

---



### 16. Movies Info in Mvc.

#### Source Code :

##### MoviesController.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using Movies_Info.Data;
using Movies_Info.Models;

namespace Movies_Info.Controllers
{
    public class MoviesController : Controller
    {
        private Movies_InfoContext db = new Movies_InfoContext();

        // GET: Movies
        public ActionResult Index()
        {
            return View(db.Movies.ToList());
        }

        // GET: Movies/Details/5
        public ActionResult Details(int? id)
        {
            if (id == null)
            {
                return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
            }
            Movie movie = db.Movies.Find(id);
            if (movie == null)
            {
                return HttpNotFound();
            }
            return View(movie);
        }
    }
}
```

```
// GET: Movies/Create
public ActionResult Create()
{
    return View();
}

// POST: Movies/Create
// To protect from overposting attacks, enable the specific properties you want to bind to,
for
// more details see https://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Create([Bind(Include =
"MovieId,MovieName,MovieCategory,MovieRatings")] Movie movie)
{
    if (ModelState.IsValid)
    {
        db.Movies.Add(movie);
        db.SaveChanges();
        return RedirectToAction("Index");
    }

    return View(movie);
}

// GET: Movies/Edit/5
public ActionResult Edit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Movie movie = db.Movies.Find(id);
    if (movie == null)
    {
        return HttpNotFound();
    }
    return View(movie);
}

// POST: Movies/Edit/5
```

// To protect from overposting attacks, enable the specific properties you want to bind to, for  
// more details see <https://go.microsoft.com/fwlink/?LinkId=317598>.

[HttpPost]

[ValidateAntiForgeryToken]

public ActionResult Edit([Bind(Include =

"MovieId,MovieName,MovieCategory,MovieRatings")] Movie movie)

```
{
    if (ModelState.IsValid)
    {
        db.Entry(movie).State = EntityState.Modified;
        db.SaveChanges();
        return RedirectToAction("Index");
    }
    return View(movie);
}
```

// GET: Movies/Delete/5

public ActionResult Delete(int? id)

```
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Movie movie = db.Movies.Find(id);
    if (movie == null)
    {
        return HttpNotFound();
    }
    return View(movie);
}
```

// POST: Movies/Delete/5

[HttpPost, ActionName("Delete")]

[ValidateAntiForgeryToken]

public ActionResult DeleteConfirmed(int id)

```
{
    Movie movie = db.Movies.Find(id);
    db.Movies.Remove(movie);
    db.SaveChanges();
    return RedirectToAction("Index");
}
```

protected override void Dispose(bool disposing)

```
{  
    if (disposing)  
    {  
        db.Dispose();  
    }  
    base.Dispose(disposing);  
}  
}  
}
```

### **Movie.cs**

```
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Web;  
  
namespace Movies_Info.Models  
{  
    public class Movie  
    {  
        public virtual int MovieId { get; set; }  
        public virtual String MovieName { get; set; }  
  
        public virtual String MovieCategory { get; set; }  
  
        public virtual float MovieRatings { get; set; }  
    }  
}
```

### **Index.cshtml**

```
@model IEnumerable<Movies_Info.Models.Movie>  
  
@{  
    ViewBag.Title = "Index";  
}  
  
<h2>Index</h2>  
  
<p>  
    @Html.ActionLink("Create New", "Create")  
</p>  
<table class="table">  
    <tr>
```

```
<th>
    @Html.DisplayNameFor(model => model.MovieName)
</th>
<th>
    @Html.DisplayNameFor(model => model.MovieCategory)
</th>
<th>
    @Html.DisplayNameFor(model => model.MovieRatings)
</th>
<th></th>
</tr>

@foreach (var item in Model) {
    <tr>
        <td>
            @Html.DisplayFor(modelItem => item.MovieName)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.MovieCategory)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.MovieRatings)
        </td>
        <td>
            @Html.ActionLink("Edit", "Edit", new { id=item.MovieId }) |
            @Html.ActionLink("Details", "Details", new { id=item.MovieId }) |
            @Html.ActionLink("Delete", "Delete", new { id=item.MovieId })
        </td>
    </tr>
}
</table>
```

### Output:

[Application name](#)

## Index

[Create New](#)

MovieName	MovieCategory	MovieRatings	
Thor	Action	4.5	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Captian America	Action	4.5	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Iron Man	Action	5	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>