Web Service

webservice.cs--

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

/// <summary>
/// Summary description for WebService
/// </summary>
[WebService(Namespace = "http://tempuri.org/")]
[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
// 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 WebService : System.Web.Services.WebService
{

    public WebService()
    {

        //Uncomment the following line if using designed components
        //InitializeComponent();
    }

    [WebMethod]
    public string HelloWorld()
    {
        return "Hello World";
    }
    [WebMethod]
    public string authenticate(string uname,string pwd)
```

```csharp
{
    SqlConnection cn = new SqlConnection();
    cn.ConnectionString = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\user1\Docume
nts\WebSite15\App_Data\Database.mdf;Integrated Security=True";

    cn.Open();

    SqlCommand cmd = new SqlCommand();
    cmd.CommandText = "select * from userdata where
username='"+uname+"'";
    cmd.Connection = cn;

    int i = 0;
        i = cmd.ExecuteNonQuery();
    SqlDataAdapter sd = new SqlDataAdapter();
    sd.SelectCommand = cmd;

    DataSet ds = new DataSet();
    sd.Fill(ds, "t1");
    //return ""+i;


    if ( (pwd.Equals( ds.Tables["t1"].Rows[0][2].ToString())))
        {
            return "successfully login";
        }
    else
    {
        return "error";

    }
```

```
        }

}
```

----
loginpage.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="login
page.aspx.cs" Inherits="login_page" %>

<!DOCTYPE html>

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

</head>
<body>
    <form id="form1" runat="server">
    <div>

    </div>
        <asp:Button ID="Button1" runat="server" CssClass="auto-style5"
OnClick="Button1_Click" Text="login" />
        <asp:TextBox ID="TextBox1" runat="server"
CssClass="auto-style4"></asp:TextBox>
        <asp:TextBox ID="TextBox2" runat="server" CssClass="auto-style3"
TextMode="Password"></asp:TextBox>
        <asp:Label ID="Label1" runat="server" CssClass="auto-style1"
Text="username"></asp:Label>
        <asp:Label ID="Label2" runat="server" CssClass="auto-style2"
Text="password"></asp:Label>
    </form>
```

```
</body>
</html>
```

----

loginpage.aspx.cs


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

public partial class login_page : System.Web.UI.Page
{
    WebService w = new WebService();
    String a, b, c;
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {

        a = TextBox1.Text.ToString();
        b = TextBox2.Text.ToString();
        c = w.authenticate(a, b);
        Response.Write(c.ToString());
    }
}
```


Web Service

- **//WebService1.aspx.cs**

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

namespace WebApplication20
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [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 WebService1 : System.Web.Services.WebService
    {

        [WebMethod]
        public string HelloWorld()
        {
            return "Hello World";
        }

        [WebMethod]
        public DataSet getEmployeeDetails(string name)
        {
            SqlConnection con = new SqlConnection();
            con.ConnectionString = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Databa
se1.mdf;Integrated Security=True";
```

```csharp
            con.Open();

            SqlCommand cmd = new SqlCommand();
            cmd.CommandText = "select * from employee where emp_name =
@emp_name";
            cmd.Connection = con;
            cmd.CommandType = CommandType.Text;
            SqlParameter p = new SqlParameter("@emp_name", name);
            cmd.Parameters.Add(p);

            SqlDataAdapter da = new SqlDataAdapter();
            da.SelectCommand = cmd;

            DataSet ds = new DataSet();
            da.Fill(ds);
            return ds;

        }
    }
}
```

- **//WebForm1.aspx**

```html
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication21.WebForm1" %>

<!DOCTYPE html>

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

```
    <div>
        <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
        <br />
        <asp:Button ID="Button1" OnClick="Button1_Click" runat="server"
Text="Button" />
        <br />
        <br />
        <asp:GridView ID="GridView1" runat="server"></asp:GridView>
    </div>
    </form>
    </body>
</html>
```

- **//WebForm1.aspx.cs**

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

namespace WebApplication21
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            employee.WebService1 emp = new employee.WebService1();
            DataSet ds = emp.getEmployeeDetails(TextBox1.Text);
            GridView1.DataSource = ds;
```

```
        GridView1.DataBind();
    }
  }
}
```

ENTITY FRAMEWORK

- **Model->Employee.cs**

```
using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.ComponentModel.DataAnnotations.Schema;
using System.Linq;
using System.Web;

namespace learnEntityFramework.Models
{
   [Table("tblemp")]
   public class Employee
   {
     [Key]
      public int emp_id { get; set; }
      public string emp_name { get; set; }
      public int emp_salary { get; set; }


   }
}
```

- **Model->EmployeeContext.cs**
```
using System;
using System.Collections.Generic;
using System.Data.Entity;
```

```csharp
using System.Linq;
using System.Web;

namespace learnEntityFramework.Models
{
    public class EmployeeContext :DbContext
    {

        public DbSet <Employee> employees{get;set;}



    }
}
```

- **Controller->EmployeeController.cs**

```csharp
using learnEntityFramework.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;

namespace learnEntityFramework.Controllers
{
    public class EmployeeController : Controller
    {
        //
        // GET: /Employee/

        public ActionResult Index(int Id)
        {
            EmployeeContext cmd = new EmployeeContext();
            Employee employee1 = cmd.employees.Single(emp => emp.emp_id ==
Id);
```

```
    return View(employee1);
    }

  }
}
```

● **View->Employee->Index.cshtml**

```
@model learnEntityFramework.Models.Employee

@{
  ViewBag.Title = "Index";
}

<h2>Index</h2>
<table>
  <tr>

    <td>Employee id</td>
    <td>@Model.emp_id</td>
  </tr>
  <tr>

    <td>Employee Name</td>
    <td>@Model.emp_name</td>
  </tr>

  <tr>
```

```html
      <td>Employee Salary</td>
      <td>@Model.emp_salary</td>
   </tr>
</table>
```

- **Global.aspx**

```csharp
using System;
using System.Collections.Generic;
using System.Data.Entity;
using System.Data.Entity.Infrastructure;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using System.Web.Routing;

namespace learnEntityFramework
{
    // Note: For instructions on enabling IIS6 or IIS7 classic mode,
    // visit http://go.microsoft.com/?LinkId=9394801

    public class MvcApplication : System.Web.HttpApplication
    {
        public static void RegisterGlobalFilters(GlobalFilterCollection filters)
        {
            filters.Add(new HandleErrorAttribute());
        }

        public static void RegisterRoutes(RouteCollection routes)
        {
            routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

            routes.MapRoute(
                "Default", // Route name
                "{controller}/{action}/{id}", // URL with parameters
```

```csharp
        new { controller = "Home", action = "Index", id = UrlParameter.Optional
} // Parameter defaults
        );

    }

    protected void Application_Start()
    {

Database.SetInitializer<learnEntityFramework.Models.EmployeeContext>(null);
        AreaRegistration.RegisterAllAreas();

        // Use LocalDB for Entity Framework by default
        Database.DefaultConnectionFactory = new
SqlConnectionFactory(@"Data Source=(localdb)\v11.0; Integrated Security=True;
MultipleActiveResultSets=True");

        RegisterGlobalFilters(GlobalFilters.Filters);
        RegisterRoutes(RouteTable.Routes);
    }
  }
}
```

- **WebForm1.aspx**

```aspx
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="learnEntityFramework.WebForm1"
%>

<!DOCTYPE html>

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

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

</div>
    <asp:SqlDataSource ID="SqlDataSource1" runat="server"
ConnectionString="<%$ ConnectionStrings:EmployeeContext %>"
SelectCommand="SELECT * FROM [tblemp]"></asp:SqlDataSource>
    </form>
</body>
</html>
```

LINQ_ALL_OPERATION

- **Views->EmpCrud->Index.cshtml**

```
@model IEnumerable<LinqCRUDopeartions.tblemp>

@{
    ViewBag.Title = "Index";
}

<h2>Index</h2>

<p>
    @Html.ActionLink("Create New", "Create")
</p>
<table>
    <tr>
        <th>
            @Html.DisplayNameFor(model => model.emp_name)
        </th>
        <th>
            @Html.DisplayNameFor(model => model.emp_salary)
        </th>
        <th></th>
    </tr>
```

```
@foreach (var item in Model) {
    <tr>
        <td>
            @Html.DisplayFor(modelItem => item.emp_name)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.emp_salary)
        </td>
        <td>
            @Html.ActionLink("Edit", "Edit", new { id=item.emp_id }) |
            @Html.ActionLink("Details", "Details", new { id=item.emp_id }) |
            @Html.ActionLink("Delete", "Delete", new { id=item.emp_id })
        </td>
    </tr>
}

</table>
```

- **Views->EmpCrud->Create.cshtml**

```
@model LinqCRUDopeartions.tblemp

@{
    ViewBag.Title = "Create";
}

<h2>Create</h2>

@using (Html.BeginForm()) {
    @Html.ValidationSummary(true)

    <fieldset>
        <legend>tblemp</legend>

        <div class="editor-label">
            @Html.LabelFor(model => model.emp_name)
```

```
        </div>
        <div class="editor-field">
            @Html.EditorFor(model => model.emp_name)
            @Html.ValidationMessageFor(model => model.emp_name)
        </div>

        <div class="editor-label">
            @Html.LabelFor(model => model.emp_salary)
        </div>
        <div class="editor-field">
            @Html.EditorFor(model => model.emp_salary)
            @Html.ValidationMessageFor(model => model.emp_salary)
        </div>

        <p>
            <input type="submit" value="Create" />
        </p>
    </fieldset>
}

<div>
    @Html.ActionLink("Back to List", "Index")
</div>
```

- **Views->EmpCrud->Edit.cshtml**

```
@model LinqCRUDopeartions.tblemp

@{
    ViewBag.Title = "Edit";
}

<h2>Edit</h2>

@using (Html.BeginForm()) {
    @Html.ValidationSummary(true)
```

```
    <fieldset>
        <legend>tblemp</legend>

        @Html.HiddenFor(model => model.emp_id)

        <div class="editor-label">
            @Html.LabelFor(model => model.emp_name)
        </div>
        <div class="editor-field">
            @Html.EditorFor(model => model.emp_name)
            @Html.ValidationMessageFor(model => model.emp_name)
        </div>

        <div class="editor-label">
            @Html.LabelFor(model => model.emp_salary)
        </div>
        <div class="editor-field">
            @Html.EditorFor(model => model.emp_salary)
            @Html.ValidationMessageFor(model => model.emp_salary)
        </div>

        <p>
            <input type="submit" value="Save" />
        </p>
    </fieldset>
}

<div>
    @Html.ActionLink("Back to List", "Index")
</div>
```

- **Views->EmpCrud->Details.cshtml**

```
@model LinqCRUDopeartions.tblemp

@{
```

```
    ViewBag.Title = "Details";
}

<h2>Details</h2>

<fieldset>
    <legend>tblemp</legend>

    <div class="display-label">
        @Html.DisplayNameFor(model => model.emp_name)
    </div>
    <div class="display-field">
        @Html.DisplayFor(model => model.emp_name)
    </div>

    <div class="display-label">
        @Html.DisplayNameFor(model => model.emp_salary)
    </div>
    <div class="display-field">
        @Html.DisplayFor(model => model.emp_salary)
    </div>
</fieldset>
<p>
    @Html.ActionLink("Edit", "Edit", new { id=Model.emp_id }) |
    @Html.ActionLink("Back to List", "Index")
</p>
```

- **Controller->EmpCrudController.cs**

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

```csharp
namespace LinqCRUDopeartions.Controllers
{
    public class EmpCrudController : Controller
    {
        LinqCrudOPDataContext dc = new LinqCrudOPDataContext();

        //
        // GET: /EmpCrud/

        public ActionResult Index()
        {
            //retrive all the record from tbl employees
            var empdetails = from x in dc.tblemps select x;



            return View(empdetails);
        }

        //
        // GET: /EmpCrud/Details/5

        public ActionResult Details(int id)
        {
            var empdetails = dc.tblemps.Single(x => x.emp_id == id);



            return View(empdetails);
        }

        //
        // GET: /EmpCrud/Create

        public ActionResult Create()
        {
            return View();
```

```csharp
        }

        //
        // POST: /EmpCrud/Create

        [HttpPost]
        public ActionResult Create(tblemp collection)
        {
            try
            {
                // TODO: Add insert logic here

                dc.tblemps.InsertOnSubmit(collection);
                dc.SubmitChanges();

                return RedirectToAction("Index");
            }
            catch
            {
                return View();
            }
        }

        //
        // GET: /EmpCrud/Edit/5

        public ActionResult Edit(int id)
        {
            var empdetails = dc.tblemps.Single(x => x.emp_id == id);



            return View(empdetails);


        }
```

```csharp
//
// POST: /EmpCrud/Edit/5

[HttpPost]
public ActionResult Edit(int id, tblemp collection)
{
    try
    {
        // TODO: Add update logic here

        tblemp emp = dc.tblemps.Single(x => x.emp_id == id);
        //emp.emp_id = collection.emp_id;
        emp.emp_name = collection.emp_name;
        emp.emp_salary = collection.emp_salary;
        dc.SubmitChanges();

        return RedirectToAction("Index");
    }
    catch
    {
        return View();
    }
}

//
// GET: /EmpCrud/Delete/5

public ActionResult Delete(int id)
{
    return View();
}

//
// POST: /EmpCrud/Delete/5

[HttpPost]
```

```
    public ActionResult Delete(int id, FormCollection collection)
    {
        try
        {
            // TODO: Add delete logic here

            return RedirectToAction("Index");
        }
        catch
        {
            return View();
        }
    }
}
```

CALC_MVC

- **Views->getcal.cshtml**

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

<h2>getcal</h2>


@Html.BeginForm("getcal","Home",FormMethod.Post)
{


<table>

    <tr>
        <td>first number</td>
```

```html
        <td> <input type="text" id="txtfirstnumber" name="a"
value="@ViewBag.first" /></td>

    </tr>
    <tr>
        <td>first number</td>
        <td> <input type="text" id="txtsecondnumber" name="b"
value="@ViewBag.second"  /></td>

    </tr>
    <tr>
        <td>first number</td>
        <td> <input type="text" id="txtthirdnumber" name="re"
value="@ViewBag.result" /></td>

    </tr>
    <tr>
        <td> <input id="add1" type="submit" value="add" name="cal" /></td>

    </tr>

    <tr>
        <td> <input id="sub1" type="submit" value="sub" name="cal" /></td>

    </tr>

</table>
}
```

- **Controller->CalcController.cs**

```csharp
namespace MvcApplication3.Controllers
{
    public class HomeController : Controller
    {
        //
        // GET: /Home/
```

```
public ActionResult Index()
{
    return View();
}

public ActionResult getcal(string a,string b,string cal)
{

    Response.Write("A= " + a + " B= " + b + " opeation=" + cal);
    int firstp = Convert.ToInt32(a);
    int secondp = Convert.ToInt32(b);

    int result = 0;

    if (cal == "add")
    {
        result = firstp + secondp;
    }

    if (cal == "sub")
    {
        result = firstp - secondp;
    }

    ViewBag.first = a;
    ViewBag.second = b;

    ViewBag.result = result;
    return View();
    }
  }
}
```