# FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

#### **DEPARTMENT OF MCA**

#### PRACTICAL NO. 05

#### **Web Services and WCF**

1. Create an XML Web Service to implement calculator with web methods to add, sub, multiply, divide two decimal values. Consume this service through a web client application.

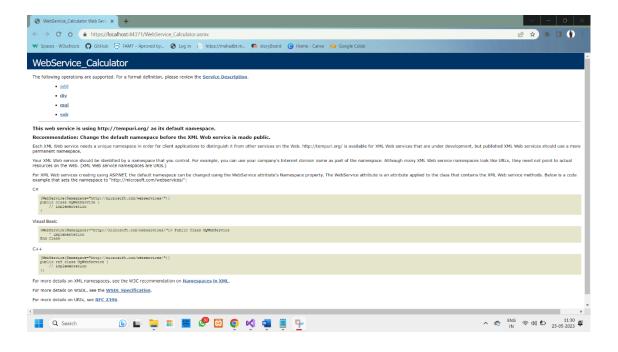
#### Ans:

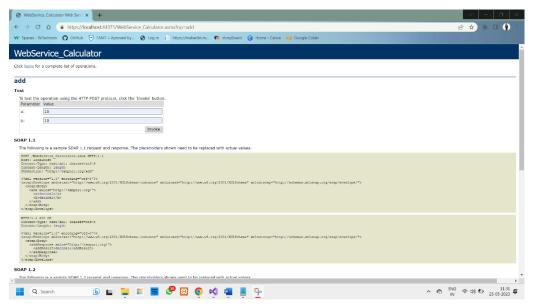
- 1) Project 1 XMLWebService\_Calculator
- CODE -

WebService\_Calculator.asmx.cs

```
using System;
using System.Collections.Generic;
using System.Ling;
using System. Web;
using System. Web. Services;
namespace XMLWebService Calculator
  /// <summary>
  /// Summary description for WebService Calculator
  /// </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 WebService_Calculator: System.Web.Services.WebService
    [WebMethod]
    public decimal add(decimal a, decimal b)
       return a + b;
    [WebMethod]
    public decimal sub(decimal a, decimal b)
       return a - b;
    [WebMethod]
    public decimal mul(decimal a, decimal b)
```

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





	or Web Servi	× https://localhost:44	4371/WebServi	× +			
← → C ☆	https://lc	ocalhost:44371/WebServi	ce_Calculator.	asmx/add			
<b>№</b> Spaces - W3schools	<b>G</b> GitHub	FAMT – Aproved by	3 Log in	https://mahadbt.m	storyBoard	O Home - Canva	co Google Colab
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# 

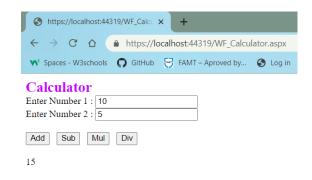
# WF\_Calculator.aspx

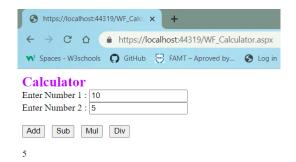
Dody
Calculator
Enter Number 1 :
Enter Number 2 :
Add Sub Mul Div
Answer
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF_Calculator.aspx.cs" Inherits="XMLWebService_Calculator_Client.WF_Calculator" %>
html
<html xmlns="http://www.w3.org/1999/xhtml"> <head runat="server"> <title></title></head></html>
 body>
<form id="form1" runat="server"></form>
<div></div>
<asp:label <="" font-bold="True" font-size="X-Large" id="Label1" runat="server" td=""></asp:label>
ForeColor="#CC00FF" Text="Calculator">
<pre><asp:label id="Label2" runat="server" text="Enter Number 1 :"></asp:label> <asp:textbox id="txtNum1" runat="server"></asp:textbox>   </pre>
<asp:label id="Label3" runat="server" text="Enter Number 2 : "></asp:label> <asp:textbox id="txtNum2" runat="server"></asp:textbox>   
<asp:button id="btnAdd" onclick="btnAdd Click" runat="server" text="Add"></asp:button>
<pre><asp:button id="btnSub" onclick="btnSub Click" runat="server" text="Sub"></asp:button></pre>

```
<asp:Button ID="btnMul" runat="server" OnClick="btnMul Click" Text="Mul" />
 
       <asp:Button ID="btnDiv" runat="server" OnClick="btnDiv Click" Text="Div" />
      <br/>>
      <br/>>
       <asp:Label ID="lblAnswer" runat="server" Text="Answer"></asp:Label>
    </div>
  </form>
</body>
</html>
WF Calculator.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System. Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace XMLWebService Calculator Client
  public partial class WF Calculator: System.Web.UI.Page
    ServiceReference1.WebService CalculatorSoapClient proxy1 = new
ServiceReference1.WebService CalculatorSoapClient();
    protected void Page Load(object sender, EventArgs e)
    protected void btnAdd Click(object sender, EventArgs e)
      decimal num1 = Convert.ToDecimal(txtNum1.Text);
      decimal num2 = Convert.ToDecimal(txtNum2.Text);
      lblAnswer.Text = proxy1.add(num1, num2).ToString();
    }
    protected void btnSub Click(object sender, EventArgs e)
      decimal num1 = Convert.ToDecimal(txtNum1.Text);
      decimal num2 = Convert.ToDecimal(txtNum2.Text);
      lblAnswer.Text = proxy1.sub(num1, num2).ToString();
    protected void btnMul Click(object sender, EventArgs e)
      decimal num1 = Convert.ToDecimal(txtNum1.Text);
      decimal num2 = Convert.ToDecimal(txtNum2.Text);
      lblAnswer.Text = proxy1.mul(num1, num2).ToString();
    protected void btnDiv Click(object sender, EventArgs e)
```

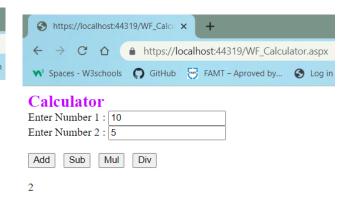
```
decimal num1 = Convert.ToDecimal(txtNum1.Text);
    decimal num2 = Convert.ToDecimal(txtNum2.Text);
    lblAnswer.Text = proxy1.div(num1, num2).ToString();
}
}
```

#### OUTPUT-









2. Create an XML Web Service that retrieves employee details from emp\_info Database table. Design a Web client that consumes this service.

Ans:

Code-

#### WebServiceEmp.asmx:

WebFormEmp.aspx:

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Ling;
using System.Web;
using System. Web. Services;
namespace XMLWebService_Emp
  /// <summary>
  /// Summary description for WebServiceEmp
  /// </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 WebServiceEmp: System.Web.Services.WebService
    static string conStr = ConfigurationManager.ConnectionStrings["ConnectionString"].ToString();
    SqlConnection con = new SqlConnection(conStr);
    SqlCommand cmd = null;
    SqlDataReader dr = null;
    DataTable dt = null:
    [WebMethod]
    public DataSet GetData()
       cmd = new SqlCommand("SELECT * FROM emp", con);
       if (con.State == ConnectionState.Closed)
         con.Open();
      cmd.ExecuteNonQuery();
      SqlDataAdapter sda = new SqlDataAdapter(cmd);
      DataSet ds = new DataSet();
      sda.Fill(ds);
     con.Close();
      return ds;
```

# Retrieve Employee Details using XML Web Service

Column0	Column1	Column2
abc	abc	abc

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebFormEmp.aspx.cs" Inherits="XMLWebServiceEmp\_Client.WebFormEmp" %>

```
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Size="20pt" Text="Retrieve"</pre>
Employee Details using XML Web Service"></asp:Label>
    <br >
    <asp:GridView ID="GridView1" runat="server">
    </asp:GridView>
    <br/>br/>
  </form>
</body>
</html>
WebFormEmp.aspx.cs:
using System;
using System.Collections.Generic;
using System.Data;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace XMLWebServiceEmp Client
  public partial class WebFormEmp: System.Web.UI.Page
    ServiceReference1.WebServiceEmpSoapClient proxy = new
ServiceReference1.WebServiceEmpSoapClient();
    protected void Page Load(object sender, EventArgs e)
      DataSet ds = proxy.GetData();
```

GridView1.DataSource = ds.Tables[0]; GridView1.DataBind();

} }

• Output:

# WebServiceEmp

The following operations are supported. For a formal definition, please review the  $\underline{\textbf{Service Description}}$ .

GetData

# Retrieve Employee Details using XML Web Service

id	name	desg	sal
102	Alice	HR	50000
103	Bob	Developer	30000
104	Tom	Assistant	60000

3. Create an XML Web Service that insert employee details into emp\_info Database table. Design a Web client that consumes this service.

Ans:

• **CODE** –

#### WebServiceEmp.asmx:

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Ling;
using System.Web;
using System. Web. Services;
namespace XMLWebService Emp
  /// <summary>
  /// Summary description for WebServiceEmp
  /// </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 WebServiceEmp: System.Web.Services.WebService
    static string conStr = ConfigurationManager.ConnectionStrings["ConnectionString"].ToString();
    SqlConnection con = new SqlConnection(conStr);
    SqlCommand\ cmd = null;
    SqlDataReader dr = null;
    DataTable dt = null;
    [WebMethod]
    public DataSet GetData()
       cmd = new SqlCommand("SELECT * FROM emp", con);
       if (con.State == ConnectionState.Closed)
          con.Open();
       cmd.ExecuteNonQuery();
       SqlDataAdapter sda = new SqlDataAdapter(cmd);
       DataSet ds = new DataSet();
       sda.Fill(ds);
      con.Close();
      return ds;
```

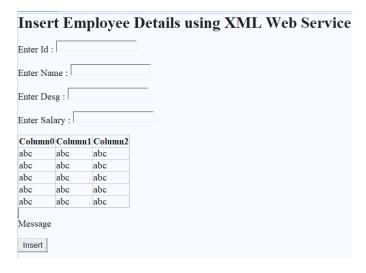
```
[WebMethod]
public int InsertData(int id, string name, string desg, int sal)
{
    if (con.State == ConnectionState.Closed)
    {
        con.Open();
    }
    cmd = new SqlCommand("INSERT INTO emp(id, name, desg, sal)
VALUES(@id,@name,@desg,@sal)", con);

    cmd.Parameters.AddWithValue("@id", id);
    cmd.Parameters.AddWithValue("@name", name);
    cmd.Parameters.AddWithValue("@desg", desg);
    cmd.Parameters.AddWithValue("@sal", sal);

    int r = cmd.ExecuteNonQuery();
    con.Close();

    return r;
}
}
```

#### WebFormEmp.aspx:



```
Enter Name : <asp:TextBox ID="txtName" runat="server"></asp:TextBox>
    Enter Desg:
       <asp:TextBox ID="txtDesg" runat="server"></asp:TextBox>
       Enter Salary:
       <asp:TextBox ID="txtSal" runat="server"></asp:TextBox>
    <asp:GridView ID="GridView1" runat="server">
    </asp:GridView>
    <br >
    <asp:Label ID="lblMessage" runat="server" Text="Message"></asp:Label>
       <asp:Button ID="btnInsert" runat="server" OnClick="btnInsert Click" Text="Insert" />
  </form>
</body>
</html>
WebFormEmp.aspx.cs:
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 XMLWebServiceEmp_Client
  public partial class WebFormEmp: System.Web.UI.Page
    ServiceReference1.WebServiceEmpSoapClient proxy = new ServiceReference1.WebServiceEmpSoapClient();
    protected void Page Load(object sender, EventArgs e)
       DataSet ds = proxy.GetData();
       GridView1.DataSource = ds.Tables[0]; GridView1.DataBind();
    protected void btnInsert_Click(object sender, EventArgs e)
       int \ r = proxy. Insert Data (Convert. To Int 32 (txt Id. Text), \ txt Name. Text, \ txt Desg. Text,
Convert.ToInt32(txtSal.Text));
      if (r > 0)
         txtId.Text = txtName.Text = txtDesg.Text = txtSal.Text = " ";
         lblMessage.Text = "Record Inserted Sucessfully";
      else
         lblMessage.Text = "Record Not Inserted";
       DataSet ds = proxy.GetData();
       GridView1.DataSource = ds.Tables[0];
       GridView1.DataBind();
    }
```

}

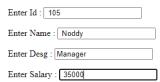
• Output:

# WebServiceEmp

The following operations are supported. For a formal definition, please review the  $\underline{\textbf{Service Description}}$ .

- GetData
- InsertData

### Insert Employee Details using XML Web Service



id	name	desg	sal
101	Jerry	Jr.Assistant	45000
102	Alice	HR	50000
103	Bob	Developer	30000
104	Tom	Assistant	60000
105	Noddy	Manager	35000

Record Inserted Sucessfully

Insert

4. Design a Web Service using WCF for simple Calculator and consume it with client application.

Ans:

CODE –
 1)Project 1 – WcfServiceLibrary Calculator

#### Calculator WCF.cs(Class File)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.Text;
using System.Threading.Tasks;

namespace WcfServiceLibrary_Calculator
{
    class Calculator_WCF
    {
        [DataMember]
        public double n1;
        [DataMember]
        public double n2;
    }
}
```

#### ICalculator(Interface file)

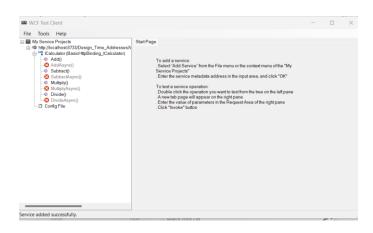
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.Text;
namespace WcfServiceLibrary Calculator
  [ServiceContract]
  public interface ICalculator
    [OperationContract]
    double Add(double n1, double n2);
    [OperationContract]
    double Subtract(double n1, double n2);
    [OperationContract]
    double Multiply(double n1, double n2);
    [OperationContract]
    double Divide(double n1, double n2);
```

```
}
```

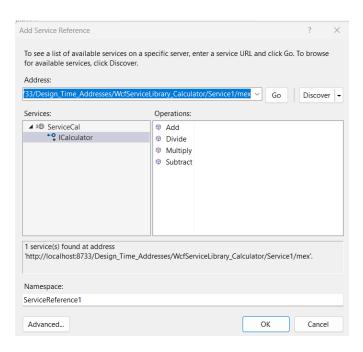
### ServiceCal(Service File)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.Text;
namespace WcfServiceLibrary Calculator
  // NOTE: You can use the "Rename" command on the "Refactor" menu to change the class name
"Service1" in both code and config file together.
  public class ServiceCal: ICalculator
    public double Add(double n1, double n2)
       return n1 + n2;
    public double Subtract(double n1, double n2)
       return n1 - n2;
    public double Multiply(double n1, double n2)
       return n1 * n2;
    public double Divide(double n1, double n2)
       return n1 / n2;
```

#### • OUTPUT-



#### 2) Project 2- WcfServiceLibrary\_Calculator\_Client



### WF\_Calculator\_WCF.aspx

av	
Calculator using WCF Service	
Enter 1st Number :	
Enter 2nd Number :	
[lblAns]	
Addition Substraction Multiplication Division	

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WF\_Calculator\_WCF.aspx.cs" Inherits="WcfServiceLibrary\_Calculator\_Client.WF\_Calculator\_WCF" %>

#### <!DOCTYPE html>

```
<asp:TextBox ID="txtNum1" runat="server"></asp:TextBox>
<br >
<br/>br/>
Enter 2nd Number:
<asp:TextBox ID="txtNum2" runat="server"></asp:TextBox>
<br/>>
<asp:Label ID="lblAns" runat="server"></asp:Label>
<br/>>
<br/>br/>
<asp:Button ID="btnAdd" runat="server" CssClass="auto-style1" OnClick="btnAdd Click"
Text="Addition" />
   
<asp:Button ID="btnSub" runat="server" CssClass="auto-style1" OnClick="btnSub Click"</pre>
Text="Substraction" />
   
<asp:Button ID="btnMult" runat="server" CssClass="auto-style1" OnClick="btnMult Click"
Text="Multiplication" />
   
<asp:Button ID="btnDiv" runat="server" CssClass="auto-style1" OnClick="btnDiv Click"</pre>
Text="Division" />
    </div>
  </form>
</body>
</html>
WF Calculator WCF.aspx.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WcfServiceLibrary Calculator Client
  public partial class WF Calculator WCF: System.Web.UI.Page
    ServiceReference1.CalculatorClient proxy1 = new ServiceReference1.CalculatorClient();
      protected void Page Load(object sender, EventArgs e)
    protected void btnAdd Click(object sender, EventArgs e)
      double n1 = Convert.ToDouble(txtNum1.Text);
      double n2 = Convert.ToDouble(txtNum2.Text);
      lblAns.Text = "Addition is " +proxy1.Add(n1, n2).ToString();
    protected void btnSub Click(object sender, EventArgs e)
      double n1 = Convert.ToDouble(txtNum1.Text);
```

```
double n2 = Convert.ToDouble(txtNum2.Text);

lblAns.Text ="Substraction is " +proxy1.Subtract(n1, n2).ToString();
}

protected void btnMult_Click(object sender, EventArgs e)
{
    double n1 = Convert.ToDouble(txtNum1.Text);
    double n2 = Convert.ToDouble(txtNum2.Text);

    lblAns.Text ="Multiplication is " +proxy1.Multiply(n1, n2).ToString();
}

protected void btnDiv_Click(object sender, EventArgs e)
{
    double n1 = Convert.ToDouble(txtNum1.Text);
    double n2 = Convert.ToDouble(txtNum2.Text);

    lblAns.Text ="Division is " +proxy1.Divide(n1, n2).ToString();
}
}
```



#### **Calculator using WCF Service**





#### **Calculator using WCF Service**

Enter 1st Number : 120		
Enter 2nd Number : 6		]
Addition is 126		
Addition Substraction	Multiplication	Division



#### **Calculator using WCF Service**

Enter 1st Number : 120		
Enter 2nd Number : 6		
Substraction is 114		
Addition Substraction	Multiplication	Division

https://localhost:443	97/WF_Calcu 🗙	+		
← → C ♠ https://localhost:44397/WF_Calculator_WCF.aspx				
<b>™</b> ³ Spaces - W3schools	GitHub 5	FAMT – Aproved by	Log in	le h

# **Calculator using WCF Service**

Enter 1st Nu	ımber : 120					
Enter 2nd Number : 6						
Multiplication	on is 720					
Addition	Substraction	Multiplication	Division			



# **Calculator using WCF Service**

Enter 1st N	umber : 120		
Enter 2nd N	Jumber : 6		]
Division is	20		
Addition	Substraction	Multiplication	Division

5. Create an XML Web Service that update product details into product\_info Database table. Design a Web client that consumes this service.

Ans:

- CODE
  - 1) Project 1 XMLWebServices ProductDB

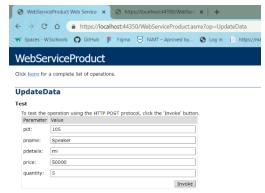
#### WebServiceProduct.asmx.cs

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Ling;
using System. Web;
using System.Web.Services;
namespace XMLWebServices ProductDB
  /// <summary>
  /// Summary description for WebServiceProduct
  /// </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 WebServiceProduct : System.Web.Services.WebService
    static string conStr =
ConfigurationManager.ConnectionStrings["productConnString"].ToString();
    SqlConnection con = new SqlConnection(conStr);
    SqlCommand\ cmd = null;
    [WebMethod]
    public DataSet ShowData()
      cmd = new SqlCommand("SELECT * FROM productDetails", con);
      if (con.State == ConnectionState.Closed)
         con.Open();
       cmd.ExecuteNonQuery();
       SqlDataAdapter sda = new SqlDataAdapter(cmd);
       DataSet ds = new DataSet();
       sda.Fill(ds);
      con.Close();
      return ds;
```

```
[WebMethod]
    public int UpdateData(int pid, string pname, string pdetails, int price, int quantity)
      cmd = new SqlCommand("UPDATE productDetails SET pname=@p name,
pdetails=@p details,price = @prc,quantity = @qunt WHERE pid = @p id", con);
      if (con.State == ConnectionState.Closed)
         con.Open();
      cmd.Parameters.AddWithValue("@p id", pid);
       cmd.Parameters.AddWithValue("@p_name", pname);
      cmd.Parameters.AddWithValue("@p details", pdetails);
      cmd.Parameters.AddWithValue("@qunt", quantity);
      cmd.Parameters.AddWithValue("@prc", price);
      int r = cmd.ExecuteNonQuery();
      con.Close();
      return r;
      [WebMethod]
       public int DeleteData(int pid)
         if (con.State == ConnectionState.Closed)
           con.Open();
         cmd = new SqlCommand("DELETE productDetails WHERE pid=@p id", con);
         cmd.Parameters.AddWithValue("@p id", pid);
         int r = cmd.ExecuteNonQuery(); con.Close();
         return r;
}
```

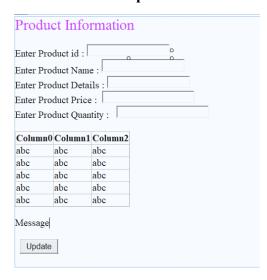






### 2) Project 2- XMLWebServices\_ProductDB\_Client

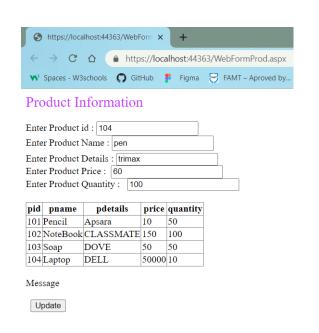
#### WebFormProd.aspx

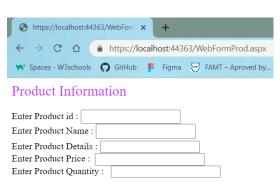


<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebFormProd.aspx.cs" Inherits="XMLWebServices\_ProductDB\_Client.WebFormProd" %>

```
<!DOCTYPE html>
```

```
<asp:Label ID="Label3" runat="server" Text="Enter Product Name : "></asp:Label>
    <asp:TextBox ID="txtPname" runat="server" style="margin-bottom: 3px"</pre>
Height="20px"></asp:TextBox>
       <br/>br/>
       <asp:Label ID="Label4" runat="server" Text="Enter Product Details: "></asp:Label>
       <asp:TextBox ID="txtDetails" runat="server"></asp:TextBox>
       <br/>br/>
       <asp:Label ID="Label5" runat="server" Text="Enter Product Price : "></asp:Label>
         <asp:TextBox ID="txtPrice" runat="server" Width="179px"></asp:TextBox>
   <br />
       <asp:Label ID="Label6" runat="server" Text="Enter Product Quantity: "></asp:Label>
       <asp:TextBox ID="txtQuantity" runat="server" Width="179px"></asp:TextBox>
       <br/>br/>
       <br/>br/>
       <asp:GridView ID="gvProductDetails" runat="server">
       </asp:GridView>
       <br >
<asp:Label ID="lblMessage" runat="server" Text="Message"></asp:Label>
       <br >
       <br/>br />
 
       <asp:Button ID="btnUpdate" runat="server" Text="Update" OnClick="btnUpdate Click" />
       <br/>br />
       <br/>br/>
    </div>
  </form>
</body>
</html>
```





pid	pname	pdetails	price	quantity
101	Pencil	Apsara	10	50
102	NoteBook	CLASSMATE	150	100
103	Soap	DOVE	50	50
104	pen	trimax	100	60

Record updated Sucessfully

Update

6. Create an XML Web Service that delete product details from product\_info Database table based on productID. Design a Web client that consumes this service.

Ans:

#### • CODE –

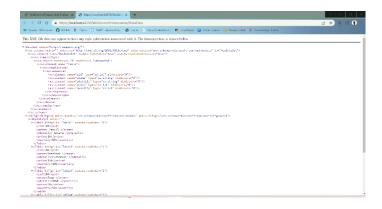
#### Project 1 - XMLWebServices\_ProductDB WebServiceProduct.asmx.cs

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System. Web. Services;
namespace XMLWebServices ProductDB
  /// <summary>
  /// Summary description for WebServiceProduct
  /// </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 WebServiceProduct: System.Web.Services.WebService
    static string conStr =
ConfigurationManager.ConnectionStrings["productConnString"].ToString();
    SqlConnection con = new SqlConnection(conStr);
    SqlCommand\ cmd = null;
    [WebMethod]
    public DataSet ShowData()
       cmd = new SqlCommand("SELECT * FROM productDetails", con);
      if (con.State == ConnectionState.Closed)
         con.Open();
       cmd.ExecuteNonQuery();
       SqlDataAdapter sda = new SqlDataAdapter(cmd);
       DataSet ds = new DataSet();
       sda.Fill(ds);
       con.Close();
      return ds;
```

```
[WebMethod]
    public int UpdateData(int pid, string pname, string pdetails, int price, int quantity)
      cmd = new SqlCommand("UPDATE productDetails SET pname=@p name,
pdetails=@p details,price = @prc,quantity = @qunt WHERE pid = @p id", con);
      if (con.State == ConnectionState.Closed)
         con.Open();
      cmd.Parameters.AddWithValue("@p id", pid);
      cmd.Parameters.AddWithValue("@p_name", pname);
       cmd.Parameters.AddWithValue("@p_details", pdetails);
      cmd.Parameters.AddWithValue("@qunt", quantity);
      cmd.Parameters.AddWithValue("@prc", price);
      int r = cmd.ExecuteNonQuery();
      con.Close();
      return r;
      [WebMethod]
      public int DeleteData(int pid)
         if (con.State == ConnectionState.Closed)
           con.Open();
         cmd = new SqlCommand("DELETE productDetails WHERE pid=@p id", con);
         cmd.Parameters.AddWithValue("@p id", pid);
         int r = cmd.ExecuteNonQuery(); con.Close();
         return r;
}
```

#### **OUTPUT-**





Project 2 - XMLWebServices\_ProductDB\_Client1
WebForm\_productDel.aspx

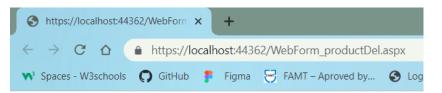
Enter Product id :					
Enter Product Name :					
Enter Product Details :					
Enter Product Price :					
Enter Product Quantity:					
Column0 Column1 Column2					
abc abc abc					
abc abc abc					
abe abe					
abc abc abc					
abc abc abc					

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="WebForm\_productDel.aspx.cs" Inherits="XMLWebService\_ProductDB\_Client1.WebForm\_productDel" %>

```
<asp:Label ID="Label2" runat="server" Text="Enter Product id : "></asp:Label>
       <asp:TextBox ID="txtPid" runat="server" Height="19px"></asp:TextBox>
      <br/>br/>
    <asp:Label ID="Label3" runat="server" Text="Enter Product Name : "></asp:Label>
    <asp:TextBox ID="txtPname" runat="server" style="margin-bottom: 3px"</pre>
Height="20px"></asp:TextBox>
      <br >
       <asp:Label ID="Label4" runat="server" Text="Enter Product Details : "></asp:Label>
       <asp:TextBox ID="txtDetails" runat="server"></asp:TextBox>
      <br >
       <asp:Label ID="Label5" runat="server" Text="Enter Product Price : "></asp:Label>
         <asp:TextBox ID="txtPrice" runat="server" Width="179px"></asp:TextBox>
  <br/>>
       <asp:Label ID="Label6" runat="server" Text="Enter Product Quantity: "></asp:Label>
         
       <asp:TextBox ID="txtQuantity" runat="server" Width="179px"></asp:TextBox>
      <br >
       <br/>>
       <asp:GridView ID="gvProductDetails" runat="server">
       </asp:GridView>
       <br/>>
<asp:Label ID="lblMessage" runat="server" Text="Message"></asp:Label>
      <br >
       <br/>>
 
       <asp:Button ID="btnDelete" runat="server" Text="Delete" OnClick="btnDelete Click" />
      <br/>br/>
       <br >
    </div>
  </form>
</body>
</html>
```

#### WebForm\_productDel.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace XMLWebService ProductDB Client1
  public partial class WebForm productDel: System.Web.UI.Page
    ServiceReference2.WebServiceProductSoapClient proxy1 = new
ServiceReference2.WebServiceProductSoapClient();
    protected void Page Load(object sender, EventArgs e)
       DataSet ds = proxy1.ShowData();
       gvProductDetails.DataSource = ds.Tables[0];
       gvProductDetails.DataBind();
    protected void btnDelete Click(object sender, EventArgs e)
       int r = proxy1.DeleteData(Convert.ToInt32(txtPid.Text));
       if (r > 0)
         lblMessage.Text = "Record deleted Sucessfully";
       else
         lblMessage.Text = "Record Not deleted";
       DataSet ds = proxy1.ShowData();
       gvProductDetails.DataSource = ds.Tables[0];
       gvProductDetails.DataBind();
  }
               }
```



# **Product Information**

Enter Product id: 103

Enter Product Name:

Enter Product Details:

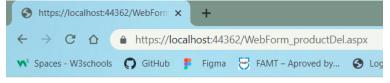
Enter Product Price:

Enter Product Quantity:

pid	pname	pdetails	price	quantity
101	Pencil	Apsara	10	50
102	NoteBook	CLASSMATE	150	100
103	Soap	DOVE	50	50
104	pen	trimax	100	60

#### Message

Delete



#### **Product Information**

Enter Product Id: 103

Enter Product Name: 

Enter Product Details: 

Enter Product Price: 

Enter Product Quantity:

pid	pname	pdetails	price	quantity
101	Pencil	Apsara	10	50
102	NoteBook	CLASSMATE	150	100
104	pen	trimax	100	60

Record deleted Sucessfully

Delete