DATE: 28/06/2022

ROLL NO: 24

Design Web Application to produce and Consume a web Service

A) Create an XML web service that returns all the student details from the student table. Write an Application that uses this service to display student details in datagrid view control.

SOURCE CODE:

StudentService.aspx:

StudentService.aspx.cs:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
public partial class StudentService : System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
  {
    WebService1 ws1 = new WebService1();
    DataSet ds = ws1.GetData();
    GridView1.DataSource = ds;
    GridView1.DataBind();
  }
}
```

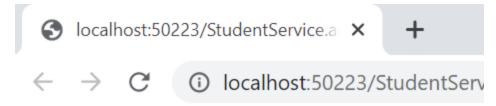
VESIT 1 NARENDER KESWANI

WebService1.asmx.cs:

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System. Web. Services;
using System.Configuration;
/// <summary>
/// Summary description for WebService1
/// </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 WebService1 : System.Web.Services.WebService
  public WebService1()
    //Uncomment the following line if using designed components
    //InitializeComponent();
  }
  [WebMethod]
  public DataSet GetData()
    string connStr =
ConfigurationManager.ConnectionStrings["narender_p9ConnectionString"].ConnectionString;
    SqlConnection conn = new SqlConnection(connStr);
    SqlDataAdapter da = new SqlDataAdapter("Select * from Student", conn);
    DataSet ds = new DataSet();
    da.Fill(ds);
    return ds;
}
```

OUTPUT:

FYMCA-B SEM-II DATE: 28/06/2022 AWT LAB PRACTICAL NO:09 ROLL NO: 24



ID	NAME	DEGREE	SUBJECT
1	Narender	MCA	AWT
2	Neel Deshmukh	Bvoc SD	JS
3	Parnot	Btech	JAVA
4	Hassan	BVOC SD	WEB

Design Web Application to produce and Consume a WCF Service

B) Design an Application to fetch data from the EMP table. Test the service and design a Web client to consume this service.

SQL SERVER:

	id	name	dept	salary	date_of_joining		
1	1	Narender Keswani	IT	100000	30-05-2021		
2	2	Neel Deshmukh	CS	200000	06-05-2022		
3	3	Hassan Haque	SD	300000	06-06-2022		
4	4	Ritesh Yadav	MBA	566252	05-06-2019		

WCF Web Service:

WebConfig:

<add name="narender_p9ConnectionString" connectionString="server=.; database=narender_p7;
Trusted_Connection=Yes;" providerName="System.Data.SqlClient" />

IService1.cs:

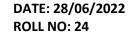
using System; using System.Collections.Generic;

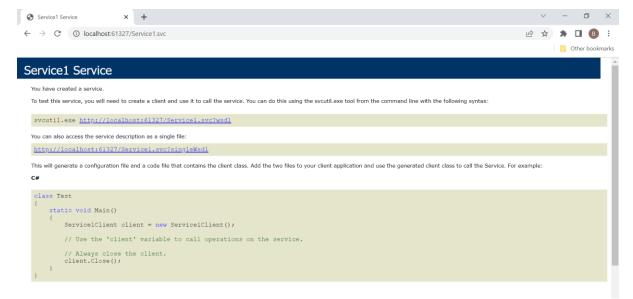
VESIT 3 NARENDER KESWANI

```
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.ServiceModel.Web;
using System.Text;
using System.Data.SqlClient;
using System.Data;
namespace WcfService1
  // 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]
    DataSet getNarendersEmployees();
  [DataContract]
  public class NarendersEmployees
    int id;
    string name;
    string dept;
    int salary;
    string date_of_joining;
    [DataMember]
    public int Id
      get { return id; }
      set { id = value; }
    [DataMember]
    public string Name
      get { return name; }
      set { name = value; }
    [DataMember]
    public string Dept
      get { return dept; }
      set { dept = value; }
    [DataMember]
    public int Salary
```

```
get { return salary; }
      set { salary = value; }
    [DataMember]
    public string Date_of_joining
      get { return date of joining; }
      set { date of joining = value; }
    }
  }
Service1.svc:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Runtime.Serialization;
using System.ServiceModel;
using System.ServiceModel.Web;
using System.Text;
using System.Data;
using System.Data.SqlClient;
using System.Configuration;
namespace WcfService1
{
  // NOTE: You can use the "Rename" command on the "Refactor" menu to change the class name
"Service1" in code, svc and config file together.
  // NOTE: In order to launch WCF Test Client for testing this service, please select Service1.svc or
Service1.svc.cs at the Solution Explorer and start debugging.
  public class Service1: IService1
    public DataSet getNarendersEmployees()
      string connStr =
ConfigurationManager.ConnectionStrings["narender p9ConnectionString"].ConnectionString;
      SqlConnection conn = new SqlConnection(connStr);
      conn.Open();
      SqlCommand cmd = new SqlCommand("Select * from employees of narender", conn);
      SqlDataAdapter sda = new SqlDataAdapter(cmd);
      DataSet ds = new DataSet();
      sda.Fill(ds);
      cmd.ExecuteNonQuery();
      conn.Close();
      return ds;
    }
  }
}
```

SEM-II PRACTICAL NO:09





Windows Forms App:

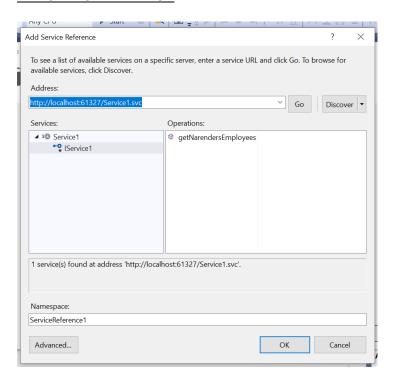
Form1.cs:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System. Drawing;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace WindowsFormsApp9BWCF
  public partial class Form1 : Form
    ServiceReference1.Service1Client obj = new ServiceReference1.Service1Client(); // Add service
reference
    public Form1()
      InitializeComponent();
      DataSet ds = new DataSet();
      ds = obj.getNarendersEmployees();
      dataGridView1.DataSource = ds.Tables[0];
    }
  }
}
```

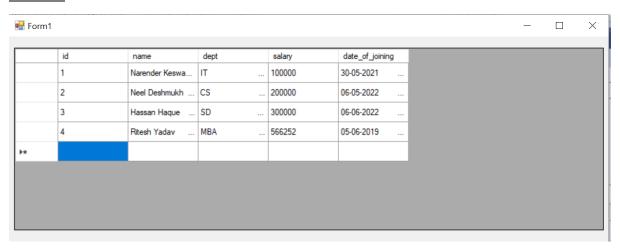
SEM-II PRACTICAL NO:09

DATE: 28/06/2022 ROLL NO: 24

ADD SERVICE REFERENCE:



OUTPUT:



CONCLUSION:

From this practical, I have learned & implemented the creation & consumption of webservice in asp.net.