WCF & Database

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace EmplyeeService

{

public class Employee

{

private int \_id;

private string \_name;

private string \_gender;

private DateTime \_dateOfBirth;

public int Id

{

get { return \_id; }

set { \_id = value; }

}

public string Name

{

get { return \_name; }

set { \_name = value; }

}

public string Gender

{

get { return \_gender; }

set { \_gender = value; }

}

public DateTime DateOfBirth

{

get { return \_dateOfBirth; }

set { \_dateOfBirth = value; }

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Runtime.Serialization;

using System.ServiceModel;

using System.Text;

namespace EmplyeeService

{

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

[ServiceContract]

public interface IEmployeeService

{

[OperationContract]

Employee GetEmployee(int Id);

[OperationContract]

void SaveEmployee(Employee employee);

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Runtime.Serialization;

using System.ServiceModel;

using System.Text;

using System.Data;

using System.Data.SqlClient;

using System.Configuration;

namespace EmplyeeService

{

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

public class EmployeeService : IEmployeeService

{

public Employee GetEmployee(int Id)

{

Employee employee = new Employee();

string cs = ConfigurationManager.ConnectionStrings["DBCS"].ConnectionString;

using (SqlConnection con = new SqlConnection(cs))

{

SqlCommand cmd = new SqlCommand("spGetEmployee", con);

cmd.CommandType = CommandType.StoredProcedure;

SqlParameter parameterId = new SqlParameter();

parameterId.ParameterName = "@Id";

parameterId.Value = Id;

cmd.Parameters.Add(parameterId);

con.Open();

SqlDataReader reader = cmd.ExecuteReader();

while (reader.Read())

{

employee.Id = Convert.ToInt32(reader["Id"]);

employee.Name = reader["Name"].ToString();

employee.Gender = reader["Gender"].ToString();

employee.DateOfBirth = Convert.ToDateTime(reader["DateOfBirth"]);

}

}

return employee;

}

public void SaveEmployee(Employee employee)

{

string cs = ConfigurationManager.ConnectionStrings["DBCS"].ConnectionString;

using (SqlConnection con = new SqlConnection(cs))

{

SqlCommand cmd = new SqlCommand("spsaveEmployee", con);

cmd.CommandType = CommandType.StoredProcedure;

SqlParameter parameterId = new SqlParameter

{

ParameterName = "@Id",

Value = employee.Id

};

cmd.Parameters.Add(parameterId);

SqlParameter parameterName = new SqlParameter

{

ParameterName = "@Name",

Value = employee.Name

};

cmd.Parameters.Add(parameterName);

SqlParameter parameterGender = new SqlParameter

{

ParameterName = "@Gender",

Value = employee.Gender

};

cmd.Parameters.Add(parameterGender);

SqlParameter parameterDateOfBirth = new SqlParameter

{

ParameterName = "@DateOfBirth",

Value = employee.DateOfBirth

};

cmd.Parameters.Add(parameterDateOfBirth);

con.Open();

cmd.ExecuteNonQuery();

}

}

}

}

<?xml version="1.0" encoding="utf-8" ?>

<configuration>

<connectionStrings>

<add name="DBCS"

connectionString="data source=.;Itegrated Security=SSPI;database=Sample"

providerName="System.Data.SqlClient"/>

</connectionStrings>

<system.serviceModel>

<services>

<service name="EmployeeService.EmployeeService" behaviorConfiguration="mexBehaviour">

<endpoint address="EmployeeService" binding="basicHttpBinding" contract="EmployeeService.IEmployeeService">

</endpoint>

<host>

<baseAddresses>

<add baseAddress="http://localhost:8080/"/>

</baseAddresses>

</host>

</service>

</services>

<behaviors>

<serviceBehaviors>

<behavior name="mexBehaviour">

<serviceMetadata httpGetEnabled="true"/>

</behavior>

</serviceBehaviors>

</behaviors>

</system.serviceModel>

</configuration>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.ServiceModel;

namespace EmployeeServiceHost

{

class Program

{

static void Main(string[] args)

{

using (ServiceHost host = new ServiceHost(typeof(EmplyeeService.EmployeeService)))

{

host.Open();

Console.WriteLine("Host started @ " + DateTime.Now.ToString());

Console.ReadLine();

}

}

}

}