

Source Code Of Practice Project 4 :

Github Link:

https://github.com/11812142/SimpliLearnProject/tree/master/ASP.%20NET/Simpli_Practice4

1. Bal Library

Bal.cs

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

namespace Bal
{
    public class BAL
    {
        public int student_id { get; set; }
        public string student_name { get; set; }
        public int subject_marks { get; set; }
    }
}
```

2. Dal Library

Dal.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using Bal;

namespace Dal
{
    public class DAL
    {
        public bool Insert(BAL school)
        {
            // SqlConnection cn = new
            SqlConnection(ConfigurationManager.ConnectionStrings["NorthCnString"].ConnectionString);
            SqlConnection cn = new SqlConnection("Data Source=DESKTOP-9E6TH3I\\SQLEXPRESS;Initial
            Catalog=school;Integrated Security=True");
        }
    }
}
```

```

        SqlCommand cmdInsert = new SqlCommand("insert into marks(student_id,student_name,subject_marks)
values(@student_id,@student_name,@subject_marks)", cn);
        cmdInsert.Parameters.AddWithValue("@student_id", school.student_id);
        cmdInsert.Parameters.AddWithValue("@student_name", school.student_name);
        cmdInsert.Parameters.AddWithValue("@subject_marks", school.subject_marks);

        cn.Open();
        int i = cmdInsert.ExecuteNonQuery();

        bool status = false;

        if (i == 1)
        {
            status = true;
        }

        cn.Close();//finally
        cn.Dispose();//finally
        return status;
    }
}

```

```

public bool Update(BAL school)
{
    // SqlConnection cn = new
    SqlConnection(ConfigurationManager.ConnectionStrings["NorthCnString"].ConnectionString);
    SqlConnection cn = new SqlConnection("Data Source=DESKTOP-9E6TH3I\\SQLEXPRESS;Initial
Catalog=school;Integrated Security=True");
    SqlCommand cmdUpdate = new SqlCommand("[dbo].[Updatemarks]", cn);

    cmdUpdate.CommandType = System.Data.CommandType.StoredProcedure;
    cmdUpdate.Parameters.AddWithValue("@p_studid", school.student_id);
    cmdUpdate.Parameters.AddWithValue("@p_studname", school.student_name);
    cmdUpdate.Parameters.AddWithValue("@p_submarks", school.subject_marks);
    cn.Open();
    int s = cmdUpdate.ExecuteNonQuery();
    bool statusd = false;
    if (s == 1)
    {
        statusd = true;
    }
    cn.Close();//finally
    cn.Dispose();//finally
    return statusd;
}
}

```

```

public BAL Find(int id)
{
    // SqlConnection cn = new
SqlConnection(ConfigurationManager.ConnectionStrings["NorthCnString"].ConnectionString);
    SqlConnection cn = new SqlConnection("Data Source=DESKTOP-9E6TH3I\\SQLEXPRESS;Initial
Catalog=school;Integrated Security=True");
    SqlCommand cmdSelect = new SqlCommand("[dbo].sp_Findmarks", cn);
    cmdSelect.CommandType = System.Data.CommandType.StoredProcedure;
    cmdSelect.Parameters.AddWithValue("@p_studid", id);
    SqlParameter p1 = new SqlParameter();
    p1.ParameterName = "@p_mark_studname";
    p1.SqlDbType = System.Data.SqlDbType.NVarChar;
    p1.Size = 20;
    p1.Direction = System.Data.ParameterDirection.Output;
    cmdSelect.Parameters.Add(p1);

    SqlParameter p2 = new SqlParameter();
    p2.ParameterName = "@p_marks_submarks";
    p2.SqlDbType = System.Data.SqlDbType.NVarChar;
    p2.Size = 20;
    p2.Direction = System.Data.ParameterDirection.Output;
    cmdSelect.Parameters.Add(p2);

    cn.Open();
    cmdSelect.ExecuteNonQuery();

    BAL found = new BAL();

    found.student_name = p1.Value.ToString();
    found.subject_marks = Convert.ToInt32(p2.Value);

    cn.Close();
    cn.Dispose();

    return found;
}

public List<BAL> list()
{
    // SqlConnection cn = new
SqlConnection(ConfigurationManager.ConnectionStrings["NorthCnString"].ConnectionString);
    // SqlConnection cn = new SqlConnection("Data Source =DESKTOP-LUAVTH3; Initial Catalog = school;
Integrated Security = True");
    SqlConnection cn = new SqlConnection("Data Source=DESKTOP-9E6TH3I\\SQLEXPRESS;Initial
Catalog=school;Integrated Security=True");
    SqlCommand cmdlist = new SqlCommand("select * from marks", cn);

```

```

cn.Open();
SqlDataReader dr = cmdlist.ExecuteReader();
List<BAL> emplist = new List<BAL>();
if (dr.HasRows)
{
    while (dr.Read())
    {
        BAL bal = new BAL();
        bal.student_id = Convert.ToInt32(dr["student_id"]);
        bal.student_name = dr["student_name"].ToString();
        bal.subject_marks = Convert.ToInt32(dr["subject_marks"]);

        emplist.Add(bal);
    }
}
cn.Close();
cn.Dispose();
return emplist;
}

public bool Delete(int id)
{
    // SqlConnection cn = new
SqlConnection(ConfigurationManager.ConnectionStrings["NorthCnString"].ConnectionString);
    SqlConnection cn = new SqlConnection("Data Source=DESKTOP-9E6TH3I\\SQLEXPRESS;Initial
Catalog=school;Integrated Security=True");
    SqlCommand cmdDelete = new SqlCommand("[dbo].sp_Deletemarks", cn);
    cmdDelete.CommandType = System.Data.CommandType.StoredProcedure;
    cmdDelete.Parameters.AddWithValue("@p_id", id);
    cn.Open();
    int i = cmdDelete.ExecuteNonQuery();
    bool status = false;
    if (i == 1)
    {
        status = true;
    }
    cn.Close();//finally
    cn.Dispose();//finally
    return status;
}

}

}

```

3. Helper Library

Helper.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using Bal;

```

```

using Dal;

namespace Helper
{
    public class Helper1
    {
        DAL dal = null;
        public Helper1()
        {
            dal = new DAL();
        }

        public bool Addmarks(BAL employee)
        {
            return dal.Insert(employee);
        }

        public bool Editmarks(BAL employee)
        {
            return dal.Update(employee);
        }

        public BAL searchmarks(int empid)
        {
            return dal.Find(empid);
        }
        public List<BAL> listmarks()
        {
            return dal.list();
        }
        public bool removemarks(int employee_id)
        {
            return dal.Delete(employee_id);
        }
    }
}

```

4. In SimpliPractice4

ValuesController----- Controller

```

using Bal;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net;
using System.Net.Http;
using System.Web.Http;
using Helper;
using Simpli_Practice4.Models;

namespace Simpli_Practice4.Controllers
{
    public class ValuesController : ApiController
    {

```

```

// GET api/values----receive
Helper1 obj = null;
public ValuesController()
{
    obj = new Helper1();
}
[HttpGet]
public List<marksmodel> marklist()
{
    //return new string[] { "value1", "value2" };

    List<BAL> empbal = new List<BAL>();
    empbal = obj.listmarks();
    List<marksmodel> emps = new List<marksmodel>();
    foreach (var item in empbal)
    {
        //Employees emp = new Employees();
        emps.Add(new marksmodel
        {
            student_id = item.student_id,
            student_name = item.student_name,
            subject_marks = item.subject_marks
        });
    }
    return emps;
}
public marksmodel marksbyid(int id)
{
    BAL empbal = new BAL();
    empbal = obj.searchmarks(id);
    marksmodel emp = new marksmodel();
    emp.student_id = empbal.student_id;
    emp.student_name = empbal.student_name;
    emp.subject_marks = empbal.subject_marks;

    return emp;
    //return "value";
}

// POST api/<controller> --- Update
public HttpResponseMessage Postmarks([FromBody] marksmodel empdata)
{
    BAL empbal = new BAL();
    empbal.student_id = empdata.student_id;
    empbal.student_name = empdata.student_name;
    empbal.subject_marks = empdata.subject_marks;

    bool ans = obj.Addmarks(empbal);
    if (ans)
    {
        return Request.CreateResponse(HttpStatusCode.OK);
    }
    else
    {
        return Request.CreateResponse(HttpStatusCode.NotAcceptable);
    }
}

```

```

    }

    // PUT api/<controller>/5 -- add
    [HttpPut]

    public HttpResponseMessage Putmarks([FromBody] marksmode empdata)
    {

        BAL empbal = new BAL();
        empbal.student_id = empdata.student_id;
        empbal.student_name = empdata.student_name;
        empbal.subject_marks = empdata.subject_marks;

        bool ans = obj.Editmarks(empbal);
        if (ans)
        {
            return Request.CreateResponse(HttpStatusCode.OK);
        }
        else
        {
            return Request.CreateResponse(HttpStatusCode.NotAcceptable);
        }
    }

    // DELETE api/<controller>/5
    public HttpResponseMessage Deletemarks(int id)
    {
        bool ans = obj.removemarks(id);
        if (ans)
        {
            return Request.CreateResponse(HttpStatusCode.OK);
        }
        else
        {
            return Request.CreateResponse(HttpStatusCode.NotAcceptable);
        }
    }
}
}
}

```

Marksmode.cs

```

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

namespace Simpli_Practice4.Models
{
    public class marksmode
    {

```

```
public int student_id { get; set; }  
public string student_name { get; set; }  
public int subject_marks { get; set; }  
}  
}
```

Used Stored Procedure in this projects ----- Follow Github Link

<https://github.com/11812142/SimpliLearnProject/tree/master/MS%20SQL>