ASP.NET MVC 5.2

Model classes to perform CRUD Operations on Dept table using ADO.NET

By Mr.Narasimha

File1: /Models/Dept.cs

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

namespace MvcApplication1.Models
{
    public class Dept
    {
        public int Deptno { get; set; }
        public string Dname { get; set; }
        public string Loc { get; set; }
    }
}
```

FileName: /Models/DataContext.cs

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

using System.Data;
using System.Data.SqlClient;
```

```
namespace MvcApplication1.Models
{
    public class DataContext
    {

        public List<Dept> GetDepts()
        {
            List<Dept> deptList = new List<Dept>();
           string connStr = "Server=narasimha-pc;
        Database=TestDb; Integrated Security=true;";
            string cmdText = "SELECT * FROM DEPT";

        SqlDataAdapter da = new SqlDataAdapter(cmdText,
    connStr);
            DataTable dt = new DataTable();
            da.Fill(dt);

            foreach (DataRow item in dt.Rows)
            {
                Dept obj = new Dept();
                obj.Deptno = (int)item["Deptno"];
                obj.Dname = (string)item["Dname"];
                obj.Loc = (string)item["Loc"];

                deptList.Add(obj);
            }
            return deptList;
        }
```

```
        public Dept GetDept(int n)
        {
            Dept obj = new Dept();

            string cmdText = "SELECT * FROM DEPT WHERE
DEPTNO=" + n;
            string connStr = "Server=narasimha-pc;
        Database=TestDb; Integrated Security=true;";

      SqlConnection conn = new SqlConnection(connStr);
      SqlCommand cmd = new SqlCommand(cmdText, conn);
            conn.Open();
            SqlDataReader dr = cmd.ExecuteReader();

            if (dr.HasRows == true)
            {
                dr.Read();
                obj.Deptno = (int)dr["DEPTNO"];
                obj.Dname = (string)dr["DNAME"];
                obj.Loc = (string)dr["LOC"];
            }

            dr.Close();
            conn.Close();
            return obj;
        }
```

```
        public void AddDept(Dept obj)
        {
            string cmdText = string.Format("INSERT INTO
DEPT VALUES({0}, '{1}', '{2}')", obj.Deptno, obj.Dname,
obj.Loc);
           string connStr = "Server=narasimha-pc;
        Database=TestDb; Integrated Security=true;";

  SqlConnection conn = new SqlConnection(connStr);
  SqlCommand cmd = new SqlCommand(cmdText, conn);
            conn.Open();
            cmd.ExecuteNonQuery();
            conn.Close();
        }

        public void EditDept(Dept obj)
        {
            string cmdText = string.Format(" UPDATE DEPT
SET  DNAME='{0}' , LOC='{1}'  WHERE DEPTNO={2}",
obj.Dname, obj.Loc, obj.Deptno);

           string connStr = "Server=narasimha-pc;
        Database=TestDb; Integrated Security=true;";

SqlConnection conn = new SqlConnection(connStr);
SqlCommand cmd = new SqlCommand(cmdText, conn);
            conn.Open();
            cmd.ExecuteNonQuery();
            conn.Close();
        }
```

```
        public void DeleteDept(int n)
        {
            string cmdText = string.Format(" DELETE FROM
DEPT WHERE DEPTNO={0}", n);
            string connStr = "Server=narasimha-pc;
        Database=TestDb; Integrated Security=true;";

SqlConnection conn = new SqlConnection(connStr);
SqlCommand cmd = new SqlCommand(cmdText, conn);
            conn.Open();
            cmd.ExecuteNonQuery();
            conn.Close();
        }
    }
}
```

- ➔ Prepare similar type of classes for Emp and Student Tables.
- ➔ Prepare the Emp and Student tables in Database
  - **Emp** : Empno, Ename, Job, Sal, Deptno
  - **Student** : StudentId, Sname, Course, Email, ContactNo
- ➔ **Develop MVC Applications to implement the CURD operations on these tables**.