

Scope: Assignment for Day 21 – ADO.NET

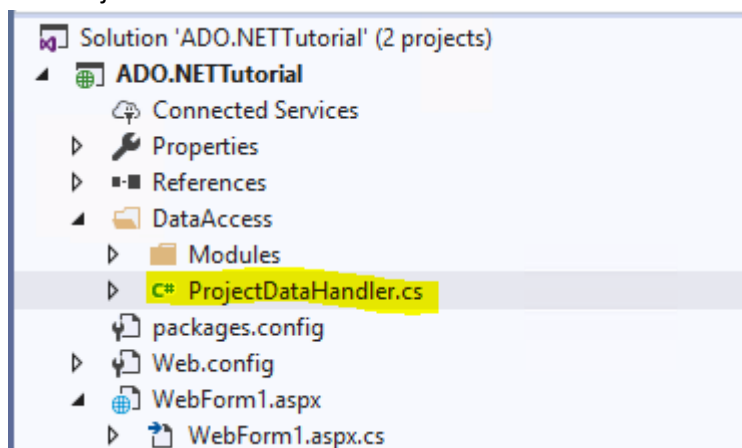
Expected Submission date: Day 22

[Note: It's a continuation of Assignment 13 & 14 covered on Day 19 & 20]

Purpose of the assignment is to understand the ADO.NET.

Requirement:

1. Copy the code base from “trunk\Day19\ADO.NETTutorial” in your local repository.
2. Open the solution “ADO.NETTutorial.sln” in visual studio.
3. Use ProjectDataHandler.cs for the modification



4. ProjectDataHandler has the following methods
 - a. IsConnected
 - b. LoadAllProjects
 - c. AddEditProject
 - d. Delete
 - e. LoadProjectById
 - f. CountTotal
5. The method “Delete” is incomplete, write corresponding code for the method
6. Test all of the above methods functionality using console application.
7. Collect evidence and commit the code into SVN.

Following is the database structure

Database Table

```
CREATE TABLE [dbo].[Projects](
[Id] [int] IDENTITY(1,1) NOT NULL,
[Name] [varchar](255) NOT NULL,
[Description] [nvarchar](1023) NULL,
[StartDate] [datetime] NOT NULL,
[EndDate] [datetime] NOT NULL,
[IsActive] [bit] NOT NULL DEFAULT(1),
)
```

Database Procedure for Add and Edit

```
CREATE PROCEDURE AddUpdateProject (
    @Id int = null output,
    @Name VARCHAR(255),
    @Description NVARCHAR(1023),
    @StartDate DATETIME,
    @EndDate DATETIME,
    @IsActive BIT
)
AS
BEGIN
    IF @Id = 0
    BEGIN
        INSERT INTO [dbo].[Projects](Name,Description,StartDate,EndDate,IsActive)
        VALUES(@name,@Description,@StartDate,@EndDate,@IsActive)

        SET @Id = @@IDENTITY
    END
    ELSE
    BEGIN
```

```
        UPDATE [dbo].[Projects] SET

            Name = @Name,

            Description = @Description,

            StartDate = @StartDate,

            EndDate = @EndDate,

            IsActive = @IsActive

        WHERE Id = @Id

    END

END
```

Procedure for Delete

```
CREATE PROCEDURE DeleteProject (
    @Id int
)
AS
BEGIN
    IF EXISTS(SELECT * FROM [dbo].[Projects] WHERE Id = @Id)
    BEGIN
        DELETE FROM [dbo].[Projects] WHERE Id = @Id
    END
END
```