Experiment: 2.1

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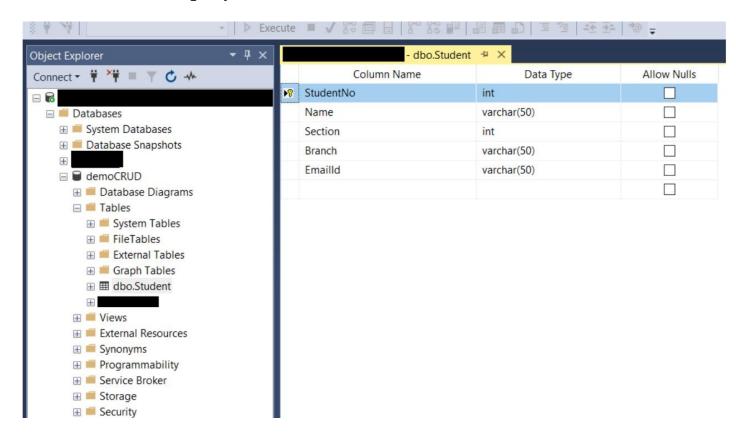
Subject: Dotnet Lab

Aim of the practical:

Develop MVC application on CRUD Operations.

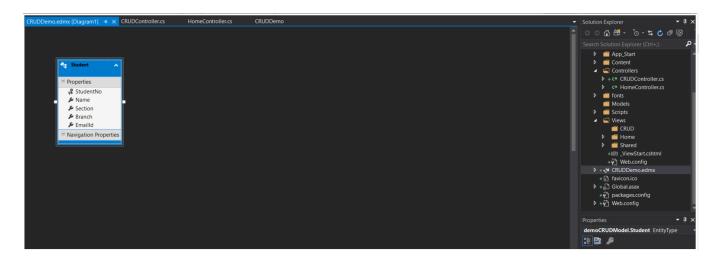
Solution:

1. Create a Database with the following columns: This is just a demo to make you understand the code in the article. You can create your own database according to your needs.





2. Create a Project in Visual Studio: Follow the guidelines that are given in the link provided above to create a project. After creating the project add entity data model to add connection string to your web.config file, to do so follow this article Add Entity Data Model to Your ASP.NET Project. The following EDMX diagram will be shown on your solution window.



ASP.NET CRUD (Create, Read, Update, Delete)

1. Create Now to create a new record in your database write the following code in the newly created controller.

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

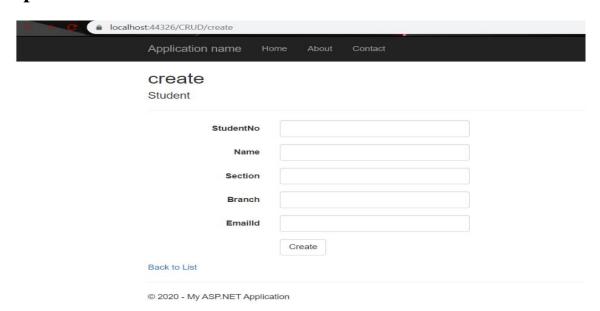
namespace CRUDDemo.Controllers
{
    public class CRUDController : Controller
    {
        public ActionResult create()
        {
              return View();
        }
        [HttpPost]
```



After this write click on the first action result and click on AddView and then select template as Create and model class as your own created model and data context class as your own created EDMX model. Then run the project and go the URL https://localhost:port_number/Controller_name/Action_Method_name

For example, https://localhost:44326/CRUD/create

Output:



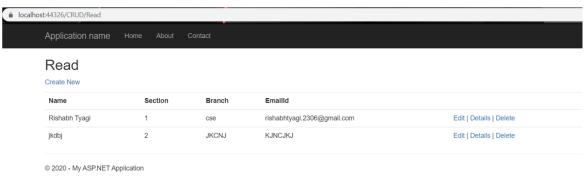


2. Read: Now to See the added data on your screen follow the below-given code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
namespace CRUDDemo.Controllers
       public class CRUDController : Controller {
               [HttpGet] // Set the attribute to Read
                       public ActionResult
                       Read()
                       using(var context = new demoCRUDEntities())
                       {
                               var data = context.Student.ToList();
                               return View(data);
               }
}
```

After this add the View but remember to change the template as List. Then run the project and go to the URL https://localhost:port_number/Controller_name/Action_Method_name For Example https://localhost:44326/CRUD/Read

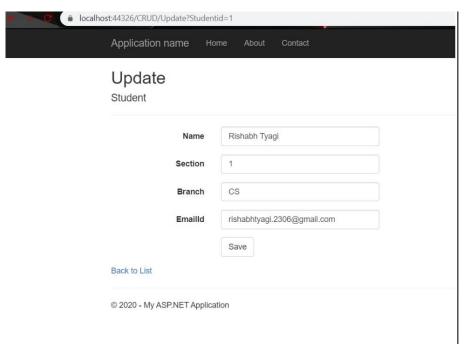
Output:



3. Update: Now, to update the existing record follow the code given below:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.Mvc;
namespace CRUDDemo.Controllers
 public class CRUDController: Controller
    public ActionResult Update(int Studentid)
            using(var context = new demoCRUDEntities())
                   var data = context.Student.Where(x => x.StudentNo ==
 Studentid).SingleOrDefault();
                   return View(data);
           }
    [HttpPost]
    [ValidateAntiForgeryToken]
     public ActionResult Update(int Studentid, Student model)
            using(var context = new demoCRUDEntities())
                  var data = context.Student.FirstOrDefault(x => x.StudentNo ==
 Studentid);
                          if (data != null)
                   {
                          data.Name = model.Name;
                          data.Section = model.Section;
                          data.EmailId = model.EmailId;
                          data.Branch = model.Branch;
                          context.SaveChanges();
                          return RedirectToAction("Read");
                   }
                   else
                          return View();
                   }
      }
 }
```

After this add view similarly as done previously but remember to change the template to Edit. Then run the project and go to the URL https://localhost:port_number/Controller_name/Action_Method_name?ID_U_want_to_edit



4. Delete: Now, to delete a record from the database follow the code given below

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

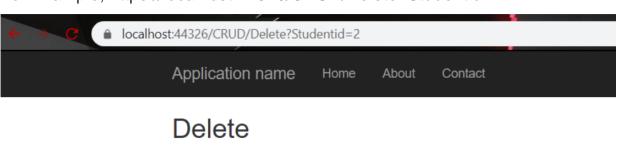
namespace CRUDDemo.Controllers
{
    public class CRUDController : Controller {
        public ActionResult Delete()
        {
            return View();
        }

        [HttpPost]
        [ValidateAntiForgeryToken] public ActionResult Delete(int Studentid)
        {
            using(var context = new demoCRUDEntities())
```



After this added view as done previously, but remember to change the template to Delete. Then run the project and go to the URL https://localhost:port_number/Controller_name/Action_Method_name?ID_U_want_to_Delete

For Example, https://localhost:44326/CRUD/Delete?Studentid=1



Are you sure you want to delete this?

Student

