Buổi 3: KẾT NÓI CƠ SỞ DỮ LIỆU - LINQ TO SQL

A. TẠO CƠ SỞ DỮ LIỆU

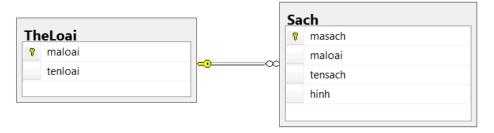
- 1. Tạo cơ sở dữ liệu trong SQL Server: NHASACH
- 2. Bång **TheLoai**

	Column Name	Data Type	Allow Nulls
₽¥	maloai	int	
	tenloai	nvarchar(30)	V

3. Bång **Sach**

	Column Name	Data Type	Allow Nulls
₽®	masach	int	
	maloai	int	V
	tensach	nvarchar(50)	V
	hinh	varchar(50)	V

4. Database Diagram

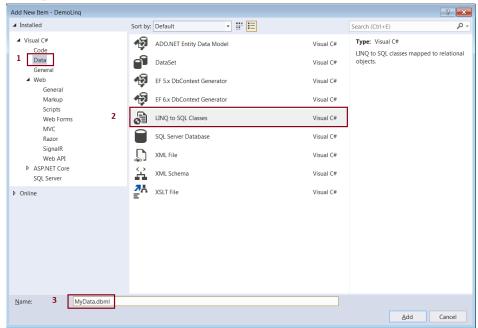


5. Script

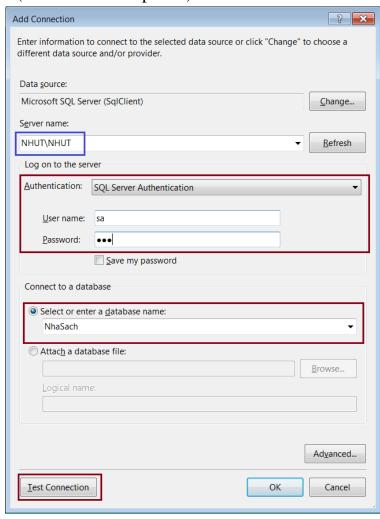
```
create database NhaSach
use NhaSach
create table TheLoai
      maloai int identity primary key,
      tenloai nvarchar(30)
create table Sach
      masach int identity primary key,
      maloai int references TheLoai(maloai),
      tensach nvarchar(50),
      hinh varchar(50)
insert into TheLoai(tenloai) values(N'Công nghệ thông tin')
insert into TheLoai(tenloai) values(N'Kinh té')
insert into TheLoai(tenloai) values(N'Mỹ thuật')
insert into Sach(maloai,tensach,hinh) values(1,N'Lập trình
Java','/Content/images/book1.jpg')
insert into Sach(maloai,tensach,hinh) values(2,N'Quản trị kinh doanh quốc
té','/Content/images/book2.jpg')
insert into Sach(maloai,tensach,hinh) values(3,N'Kỹ thuật tô
màu','/Content/images/book3.jpg')
```

B. HƯỚNG DẪN THỰC HIỆN

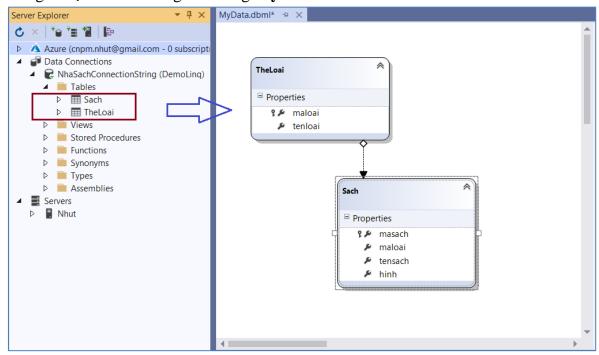
- 1. Tao project ASP.NET MCV
- 2. Tạo kết nối Linq trong project
 - Click phải vào Models → Add → New Item ...



- M^o Sever Explorer (View/Server Explorer) → Connect to Database

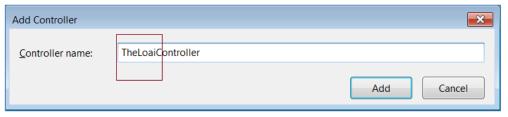


- Drag chuột kéo các bảng vào vùng MyData.dbml



3. Tao Controller: TheloaiController

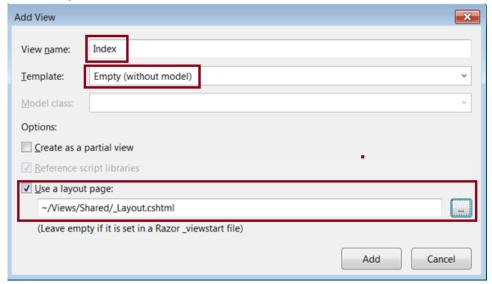
- Click phải vào Controllers → Add → Controller... → Đặt tên (tên của lớp xử lý theo sau bằng Controller)



- Thêm code vào file TheloaiController.cs

```
using DemoLinq.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
                                         Tên Model
namespace DemoLing.Controllers
    0 references
                                                         Tên Table
    public class TheloaiController : Controller
                                                         trong Model
          GET: Theloai
        MyDataDataContext data = new MyDataDataContext();
        public ActionResult Index()
            var all_theloai = from tt in data. TheLoais select tt;
            return View(all_theloai);
    }
```

- Tạo View cho trang Index



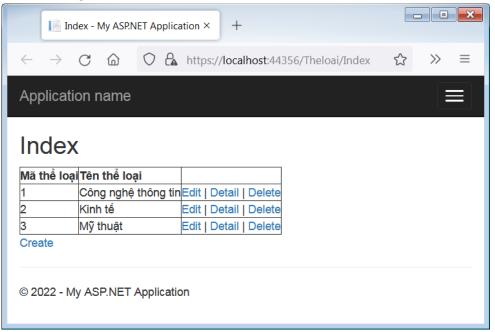
- Layout trang *Index.cshtml*

```
@model IEnumerable<DemoLing.Models.TheLoai>
@{
    ViewBag.Title = "Index";
    Layout = "~/Views/Shared/_Layout.cshtml";
<h2>Index</h2>
Mã thể loại
        Tên thể loại 
        @foreach (var item in Model)
        @item.maloai
            @item.tenloai
            @Html.ActionLink("Edit", "Edit", new { id = item.maloai }) |
@Html.ActionLink("Detail", "Detail", new { id = item.maloai }) |
@Html.ActionLink("Delete", "Delete", new { id = item.maloai })
            }
@Html.ActionLink("Create", "Create", "Theloai")
```

- Thay đổi trang hiển thị mặc định trong App_Start / RouteConfig.cs



- Kết quả thực thi trang Index.cshtml



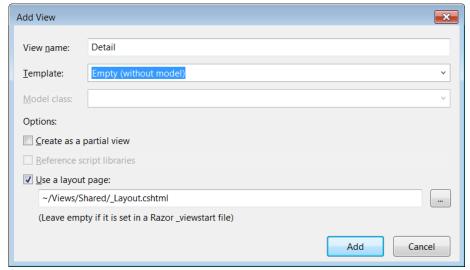
4. Code xử lý các chức năng Detail, Create, Edit, Delete

- Code trong TheloaiController.cs

```
using DemoLinq.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
namespace DemoLing.Controllers
   public class TheloaiController : Controller
       // GET: Theloai
       MyDataDataContext data = new MyDataDataContext();
       //-----Index-Theloai-----
       public ActionResult Index()
           var all_theloai = from tt in data.TheLoais select tt;
           return View(all_theloai);
       }
       //-----Detail-----
       public ActionResult Detail(int id)
           var D_theloai = data.TheLoais.Where(m => m.maloai == id).First();
           return View(D theloai);
       }
       //-----Create-----
       public ActionResult Create()
       {
           return View();
       [HttpPost]
       public ActionResult Create(FormCollection collection, TheLoai tl)
           var ten = collection["tenloai"];
           if (string.IsNullOrEmpty(ten))
               ViewData["Error"] = "Don't empty!";
           }
           else
           {
               tl.tenloai = ten;
               data.TheLoais.InsertOnSubmit(t1);
               data.SubmitChanges();
               return RedirectToAction("Index");
           return this.Create();
       }
       //-----Edit-----
       public ActionResult Edit(int id)
       {
           var E_category = data.TheLoais.First(m => m.maloai == id);
           return View(E_category);
       [HttpPost]
       public ActionResult Edit(int id, FormCollection collection)
```

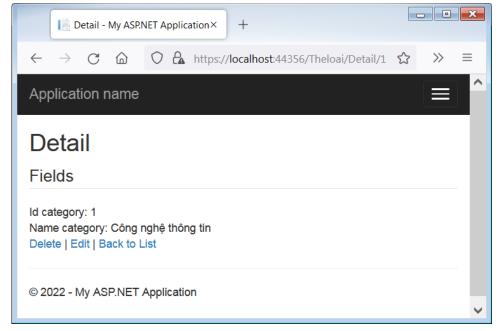
```
var theloai = data.TheLoais.First(m => m.maloai == id);
       var E_tenloai = collection["tenloai"];
       theloai.maloai = id;
       if (string.IsNullOrEmpty(E_tenloai))
       {
           ViewData["Error"] = "Don't empty!";
       }
       else
       {
           theloai.tenloai = E_tenloai;
           UpdateModel(theloai);
           data.SubmitChanges();
           return RedirectToAction("Index");
       return this.Edit(id);
   }
   //-----Delete-----
   public ActionResult Delete(int id)
       var D_theloai = data.TheLoais.First(m => m.maloai == id);
       return View(D_theloai);
    [HttpPost]
   public ActionResult Delete(int id, FormCollection collection)
       var D_theloai = data.TheLoais.Where(m => m.maloai == id).First();
       data.TheLoais.DeleteOnSubmit(D_theloai);
       data.SubmitChanges();
       return RedirectToAction("Index");
   }
}
```

- Tạo trang Detail.cshtml

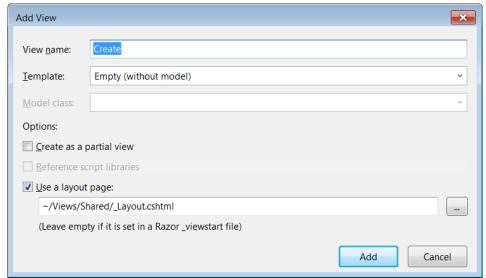


- Layout cho trang Detail.cshtml

- Kết quả thực thi trang Detail



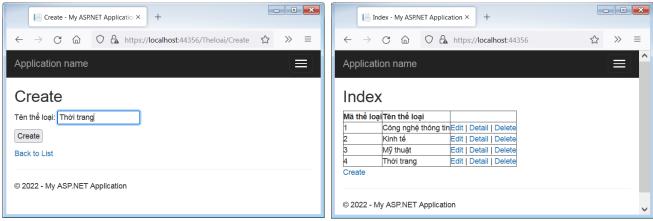
- Tạo trang Create.cshtml



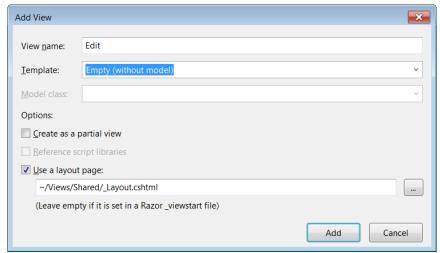
- Layout cho trang Create.cshtml

```
<u>@{</u>
    ViewBag.Title = "Create";
    Layout = "~/Views/Shared/_Layout.cshtml";
<h2>Create</h2>
@using (Html.BeginForm()) {
    @Html.ValidationSummary(true)
    <fieldset>
        >
        Tên thế loại:
        @Html.TextBox("tenloai")<font color="red">@ViewData["Error"]</font>
        >
            <input type="submit" value="Create" />
        </fieldset>
}
<div>
    @Html.ActionLink("Back to List", "Index")
</div>
```

Kết quả thực thi trang Create.cshtml



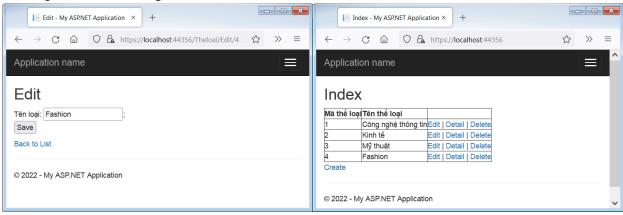
- Tạo trang Edit.cshtml



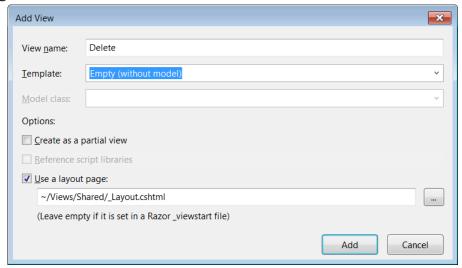
- Layout cho trang Edit.cshtml

```
@{
    ViewBag.Title = "Edit";
    Layout = "~/Views/Shared/_Layout.cshtml";
}
<h2>Edit</h2>
@using (Html.BeginForm())
    @Html.ValidationSummary(true)
    <fieldset>
        <div class="editor-field">
            Tên loai:
            @Html.TextBox("tenloai");
            @ViewData["Error"]
        </div>
        >
            <input type="submit" value="Save" />
        </fieldset>
<div>
    @Html.ActionLink("Back to List", "Index")
</div>
```

- Kết quả thực thi trang Edit.cshtml



- Tạo trang Delete.cshtml



- Layout cho trang Delete.cshtml

- Kết quả thực thi trang Delete.cshtml

