

### Lab 3: Basic ASP.NET MVC 5 Application (Part 2)

In this lab, we will a completed website using ASP.NET MVC 5 architecture knowledge we already learn from class.

Adjust your models to have these 3 classes:

```
public class Student
{
    public int ID { get; set; }
    public string LastName { get; set; }
    public string FirstMidName { get; set; }
    public DateTime EnrollmentDate { get; set; }

    public virtual ICollection<Enrollment> Enrollments { get; set; }
}

public class Course
{
    [DatabaseGenerated(DatabaseGeneratedOption.None)]
    public int CourseID { get; set; }
    public string Title { get; set; }
    public int Credits { get; set; }

    public virtual ICollection<Enrollment> Enrollments { get; set; }
}

public enum Grade
{
    A, B, C, D, F
}

public class Enrollment
{
    public int EnrollmentID { get; set; }
    public int CourseID { get; set; }
    public int StudentID { get; set; }
    public Grade? Grade { get; set; }

    public virtual Course Course { get; set; }
    public virtual Student Student { get; set; }
}
```

You will need Initializer Data for all these 3 models.

**For Course list, you need to input your real course**

#### **Step1:**

Customize your Detail Page to look like this:

<b>LastName</b>	Alexander
<b>FirstMidName</b>	Carson
<b>EnrollmentDate</b>	9/1/2005 12:00:00 AM
<b>Enrollments</b>	
Course Title	Grade
Chemistry	A
Microeconomics	C
Macroeconomics	B

## Step2:

Add sorting. You need to add function to sort your student list, when the user clicks on the header hyperlink.

### Students

[Create New](#)

Find by name:

Last Name	First Name	Enrollment Date	
Alexander	Carson	9/1/2011 12:00:00 AM	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Alonso	Meredith	9/1/2002 12:00:00 AM	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Anand	Arturo	9/1/2003 12:00:00 AM	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

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## Step 3:

Add Paging:

Each page only displays 3 students. If have more than 3, we will separate them into different pages.

## Step 4:

Create Course page with List, Add, Delete, Edit, Details functions

In detail page, allow user to view students of the current course.

----- End of Lab 3 -----