**ContosoUniversity**

1. Tạo ứng dụng web MVC
2. Sửa file \_Layout.cshtml
3. Sửa file index.cshtml
4. Cài đặt Entity Framework 6

Install-Package EntityFramework

1. Tạo data model
2. Tạo student entity

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; }

}

1. Tạo Enrollment entity

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; }

}

1. Tạo Course entity

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; }

}

1. Thêm folder DAL
2. Trong DAL tạo file SchoolContext.cs

public class SchoolContext : DbContext

{

public SchoolContext() : base("SchoolContext")

{

}

public DbSet<Student> Students { get; set; }

public DbSet<Enrollment> Enrollments { get; set; }

public DbSet<Course> Courses { get; set; }

protected override void OnModelCreating(DbModelBuilder modelBuilder)

{

//Ngăn tên bảng không được đa dạng hóa

modelBuilder.Conventions.Remove<PluralizingTableNameConvention>();

}

}

1. Trong DAL tạo file SchoolInitializer.cs

public class SchoolInitializer : System.Data.Entity. DropCreateDatabaseIfModelChanges<SchoolContext>

{

protected override void Seed(SchoolContext context)

{

var students = new List<Student>

{

new Student{FirstMidName="Carson",LastName="Alexander",EnrollmentDate=DateTime.Parse("2005-09-01")},

new Student{FirstMidName="Meredith",LastName="Alonso",EnrollmentDate=DateTime.Parse("2002-09-01")},

new Student{FirstMidName="Arturo",LastName="Anand",EnrollmentDate=DateTime.Parse("2003-09-01")},

new Student{FirstMidName="Gytis",LastName="Barzdukas",EnrollmentDate=DateTime.Parse("2002-09-01")},

new Student{FirstMidName="Yan",LastName="Li",EnrollmentDate=DateTime.Parse("2002-09-01")},

new Student{FirstMidName="Peggy",LastName="Justice",EnrollmentDate=DateTime.Parse("2001-09-01")},

new Student{FirstMidName="Laura",LastName="Norman",EnrollmentDate=DateTime.Parse("2003-09-01")},

new Student{FirstMidName="Nino",LastName="Olivetto",EnrollmentDate=DateTime.Parse("2005-09-01")}

};

students.ForEach(s => context.Students.Add(s));

context.SaveChanges();

var courses = new List<Course>

{

new Course{CourseID=1050,Title="Chemistry",Credits=3,},

new Course{CourseID=4022,Title="Microeconomics",Credits=3,},

new Course{CourseID=4041,Title="Macroeconomics",Credits=3,},

new Course{CourseID=1045,Title="Calculus",Credits=4,},

new Course{CourseID=3141,Title="Trigonometry",Credits=4,},

new Course{CourseID=2021,Title="Composition",Credits=3,},

new Course{CourseID=2042,Title="Literature",Credits=4,}

};

courses.ForEach(s => context.Courses.Add(s));

context.SaveChanges();

var enrollments = new List<Enrollment>

{

new Enrollment{StudentID=1,CourseID=1050,Grade=Grade.A},

new Enrollment{StudentID=1,CourseID=4022,Grade=Grade.C},

new Enrollment{StudentID=1,CourseID=4041,Grade=Grade.B},

new Enrollment{StudentID=2,CourseID=1045,Grade=Grade.B},

new Enrollment{StudentID=2,CourseID=3141,Grade=Grade.F},

new Enrollment{StudentID=2,CourseID=2021,Grade=Grade.F},

new Enrollment{StudentID=3,CourseID=1050},

new Enrollment{StudentID=4,CourseID=1050,},

new Enrollment{StudentID=4,CourseID=4022,Grade=Grade.F},

new Enrollment{StudentID=5,CourseID=4041,Grade=Grade.C},

new Enrollment{StudentID=6,CourseID=1045},

new Enrollment{StudentID=7,CourseID=3141,Grade=Grade.A},

};

enrollments.ForEach(s => context.Enrollments.Add(s));

context.SaveChanges();

}

}

1. Sửa file Web.config

<contexts>

<context type="ContosoUniversity.DAL.SchoolContext, ContosoUniversity">

<databaseInitializer type="ContosoUniversity.DAL.SchoolInitializer, ContosoUniversity" />

</context>

</contexts>

1. Sử dụng LocalDB

<connectionStrings>

<add name="SchoolContext" connectionString="Data Source=DESKTOP-TJF70QU\SQLEXPRESS;Initial Catalog=ContosoUniversity1;Integrated Security=SSPI;" providerName="System.Data.SqlClient"/>

</connectionStrings>

1. Trong folder Controller tạo một sudentController.cs
2. Sử dụng Server Explorer hoặc Sql Server Object Explorer