

Studio {Specify Studio 4}  
Name and Student Id: Jingyun Geng 30888670

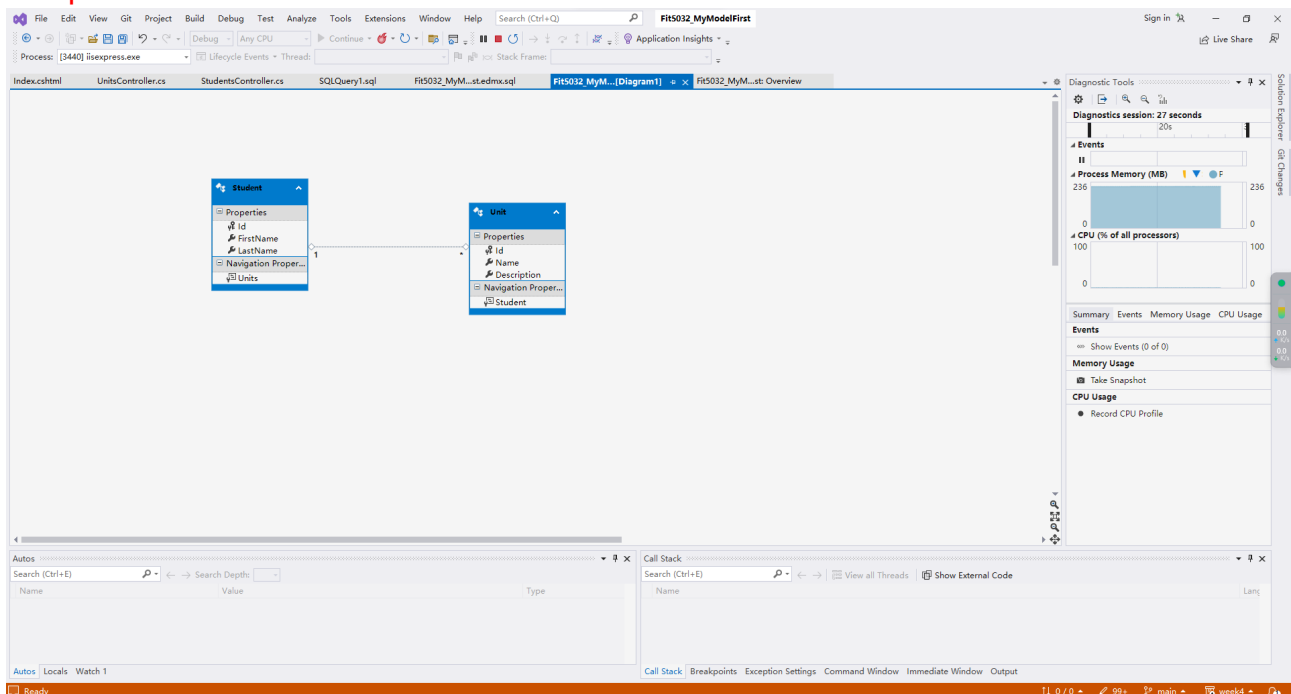
Self-Evaluation {To be highlighted by Student only}:

Need Help	Work in Progress	Pass	Credit	Distinction	High Distinction
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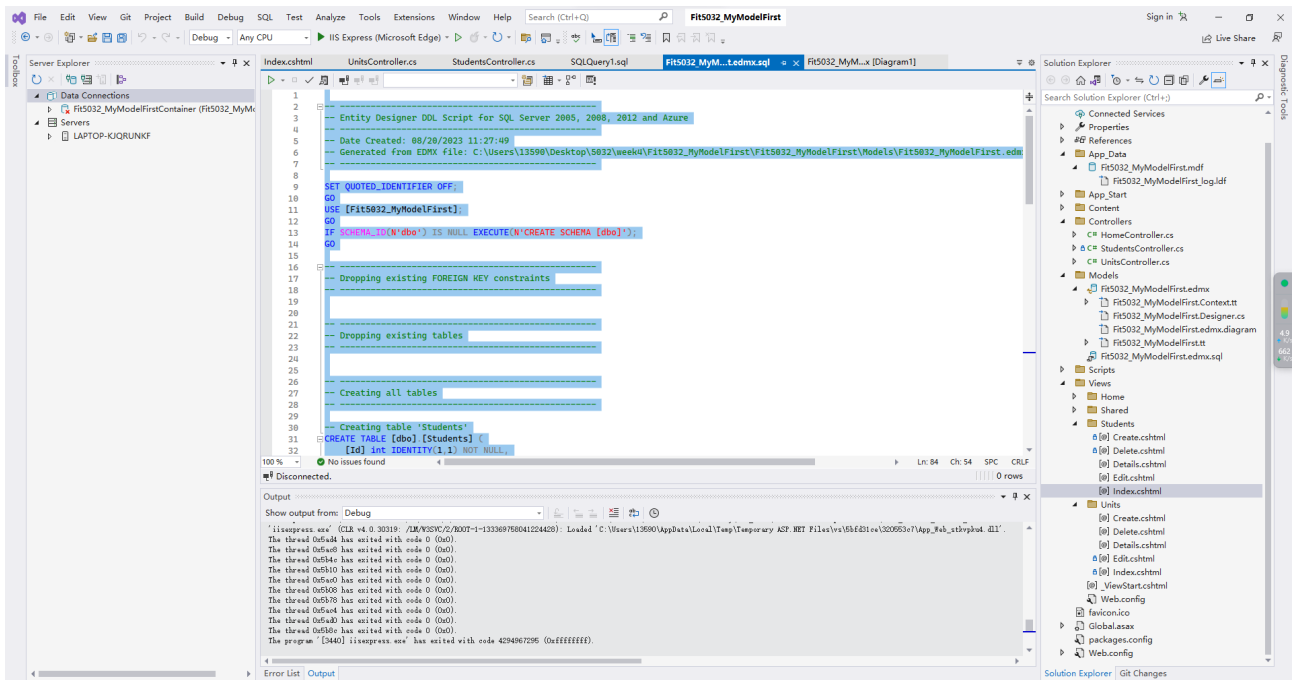
Task {4.1}:

{Screenshots}

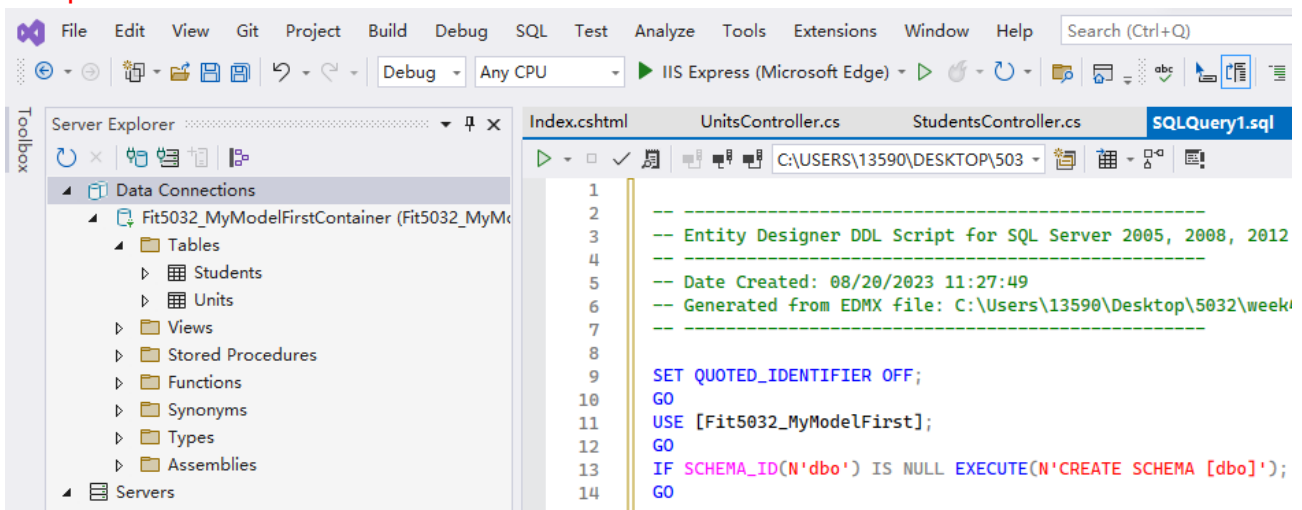
Setup entities:



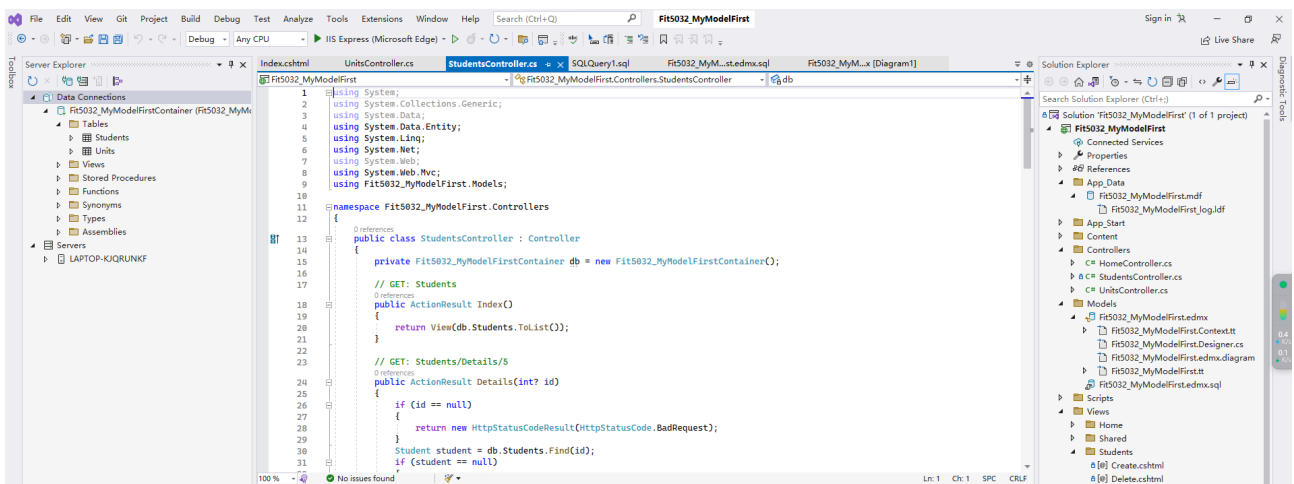
Generate SQL:



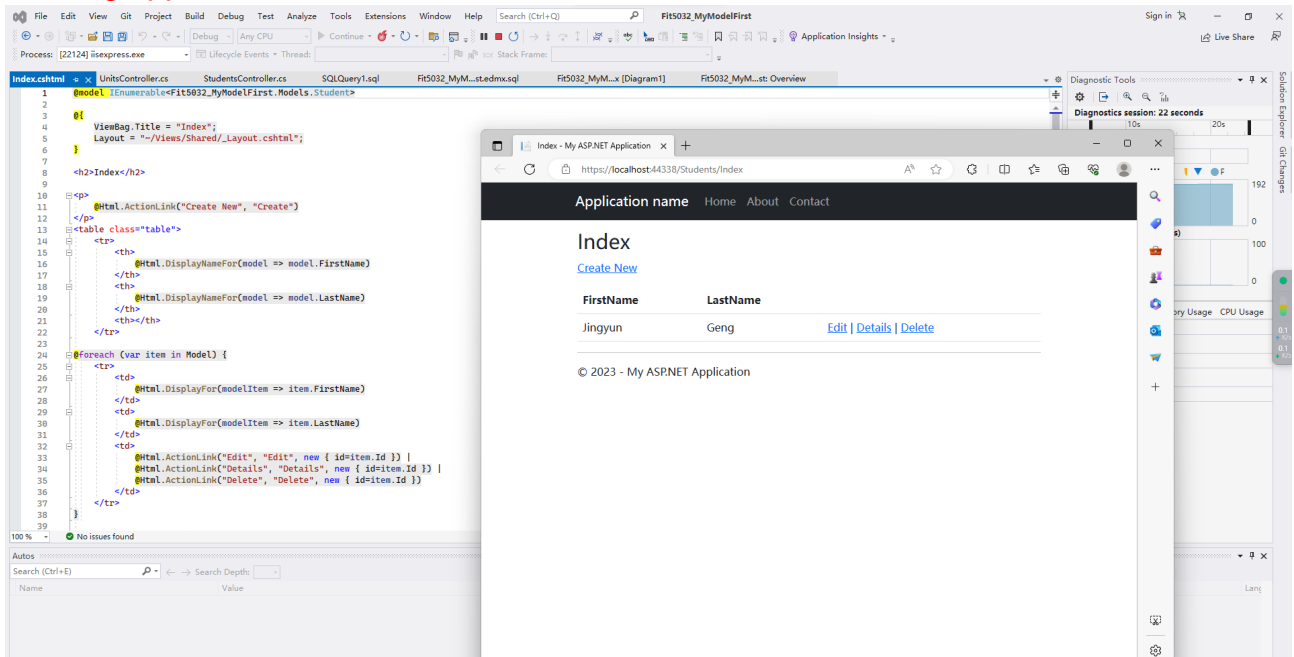
## Setup database:



## Add controller for models:



## Running application:



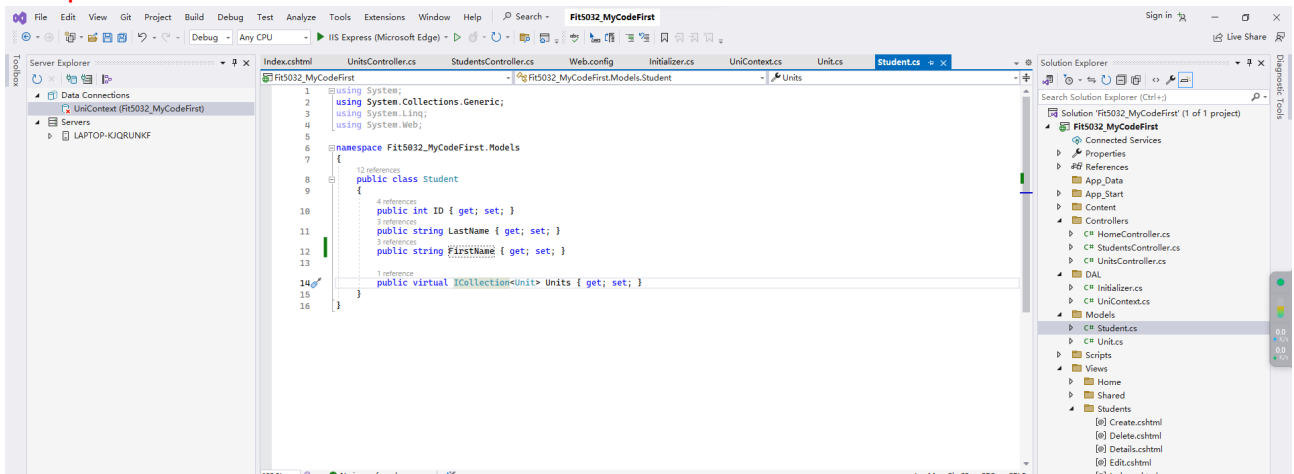
{Link to code repository}

[https://github.com/jgen0005/FIT5032\\_W4.git](https://github.com/jgen0005/FIT5032_W4.git)

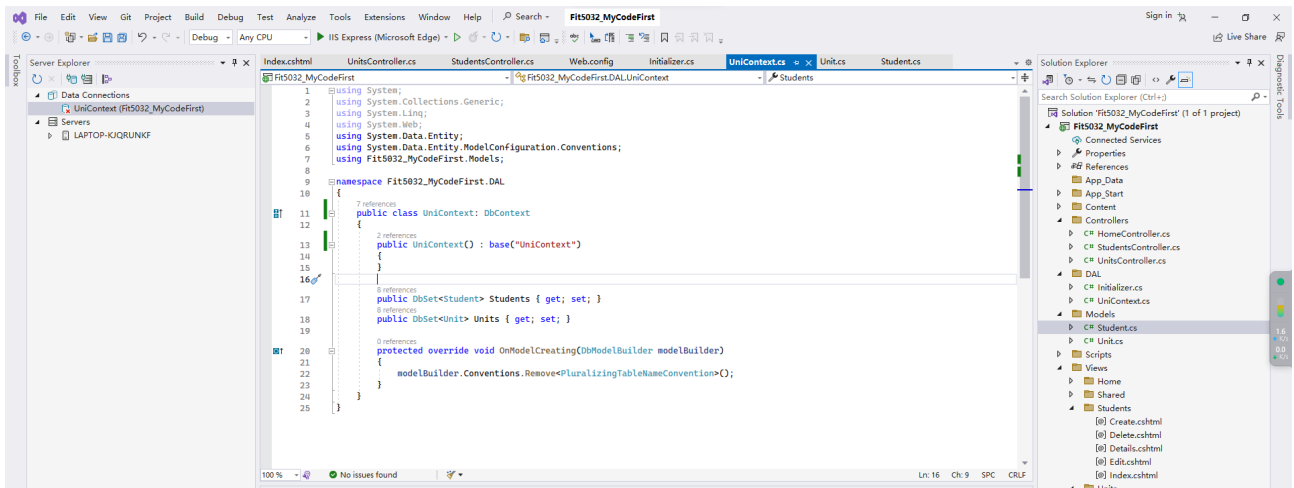
## Task {4.2}:

{Screenshots}

Setup student class and unit class under models:



Create Db context under Data Analyze Layer folder:

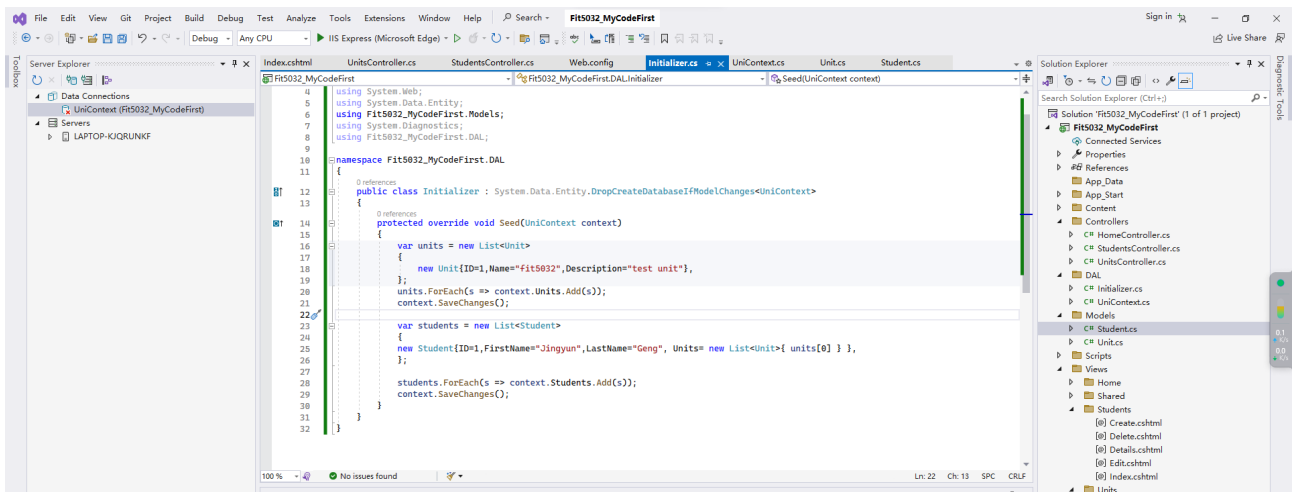


```

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Data.Entity;
6 using System.Data.Entity.ModelConfiguration.Conventions;
7 using Fit5032_MyCodeFirst.Models;
8
9 namespace Fit5032_MyCodeFirst.DAL
10 {
11     7 references
12     public class UniContext : DbContext
13     {
14         2 references
15         public UniContext() : base("UniContext")
16         {
17         }
18
19         0 references
20         public DbSet<Student> Students { get; set; }
21
22         0 references
23         public DbSet<Unit> Units { get; set; }
24
25         0 references
26         protected override void OnModelCreating(DbModelBuilder modelBuilder)
27         {
28             modelBuilder.Conventions.Remove<PluralizingTableNameConvention>();
29         }
30     }
31 }

```

Create initializer for Db with test data:

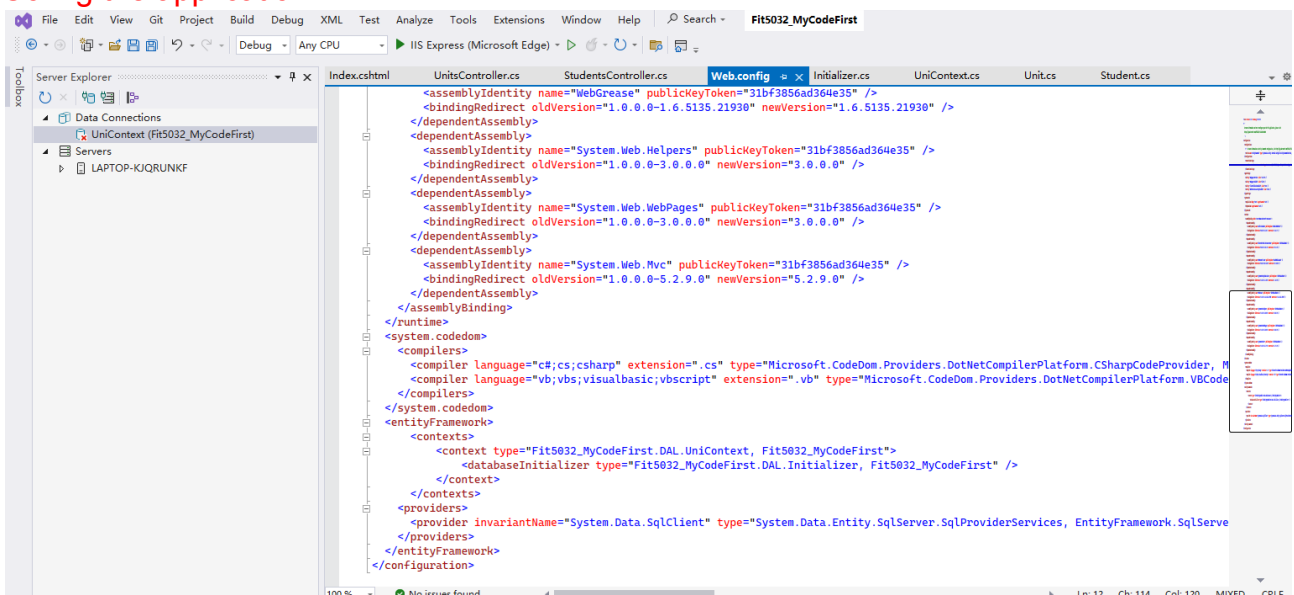


```

4 using System.Web;
5 using System.Data.Entity;
6 using Fit5032_MyCodeFirst.Models;
7 using System.Diagnostics;
8 using Fit5032_MyCodeFirst.DAL;
9
10 namespace Fit5032_MyCodeFirst.DAL
11 {
12     0 references
13     public class Initializer : System.Data.Entity.DropCreateDatabaseIfModelChanges<UniContext>
14     {
15         0 references
16         protected override void Seed(UniContext context)
17         {
18             var units = new List<Unit>
19             {
20                 new Unit { ID=1, Name="fit5032", Description="test unit" },
21             };
22             units.ForEach(s => context.Units.Add(s));
23             context.SaveChanges();
24
25             var students = new List<Student>
26             {
27                 new Student { ID=1, FirstName="Jingyun", LastName="Geng", Units = new List<Unit> { units[0] } },
28             };
29             students.ForEach(s => context.Students.Add(s));
30             context.SaveChanges();
31         }
32     }
33 }

```

Config the application:

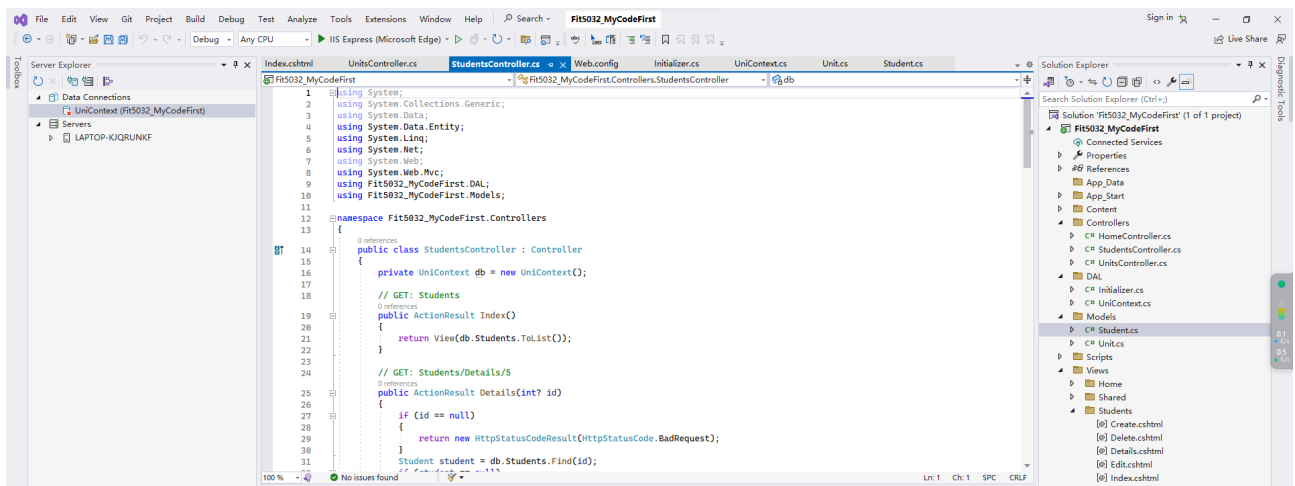


```

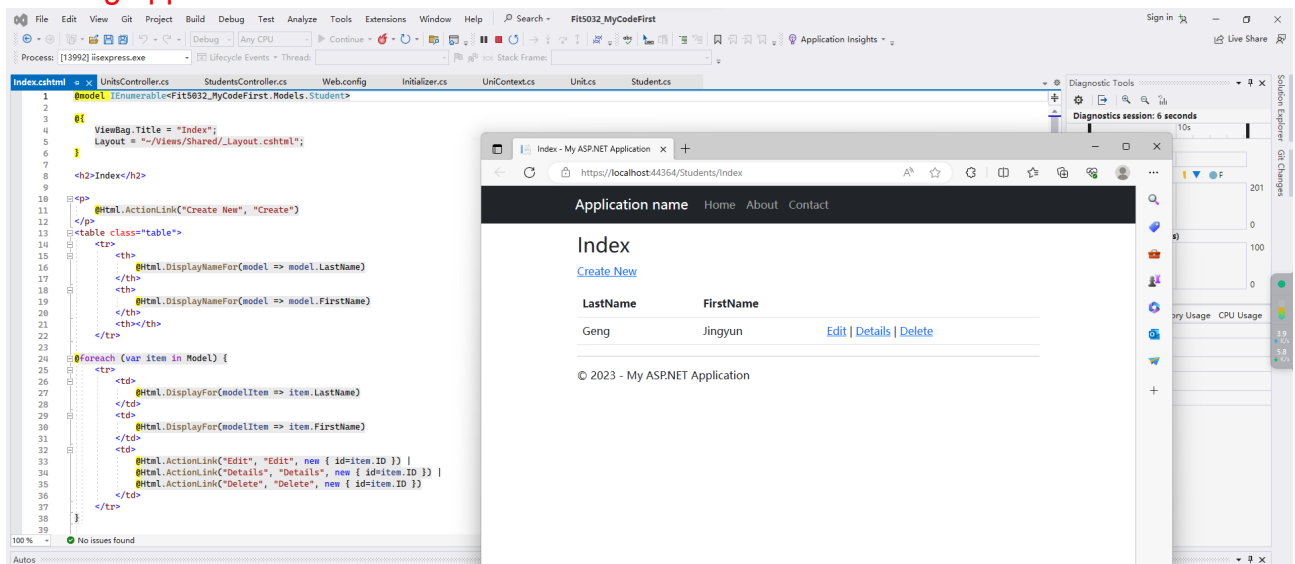
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<dependentAssembly>
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</dependentAssembly>
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</assemblyBinding>
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<compiler language="vb;vbs;visualbasic;vbscript" extension=".vb" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.VBCodeProvider, Microsoft.CodeDom.Providers.DotNetCompilerPlatform, Version=4.5.0.0, Culture=neutral, PublicKeyToken=null" />
</compilers>
</system.codedom>
<entityFramework>
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<context type="Fit5032_MyCodeFirst.DAL.UniContext, Fit5032_MyCodeFirst">
<databaseInitializer type="Fit5032_MyCodeFirst.DAL.Initializer, Fit5032_MyCodeFirst" />
</context>
</contexts>
<providers>
<provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />
</providers>
</entityFramework>
</configuration>

```

Create controllers for entities:



## Running application:



{Link to code repository}

[https://github.com/jgen0005/FIT5032\\_W4.git](https://github.com/jgen0005/FIT5032_W4.git)