(T3)手寫 EntityFramework 連接 2Tables

CourseGUID: 8503b39c-5887-4634-8291-facfb3117924

(T3)手寫 EntityFramework 連接 2Tables

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## 0. Summary

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In this tutorial, we will discuss

- \* Actionlink
- \* EntityFramework with 2 Tables

In order to make you more familiar with MVC,

I want you to practice to create MVC project from zero backgrounds over and over again until later tutorial.

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補充1

在我的課程有說

For some reason, gamers 會是 null

然後我還說我不知道為什麼

其實是因為 EF 預設就是 lazy loading 他不會去 load navigation property 裡面的值 請參考

https://dotblogs.com.tw/yc421206/2014/04/18/144784

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## 1. Create DB: OnlineGame

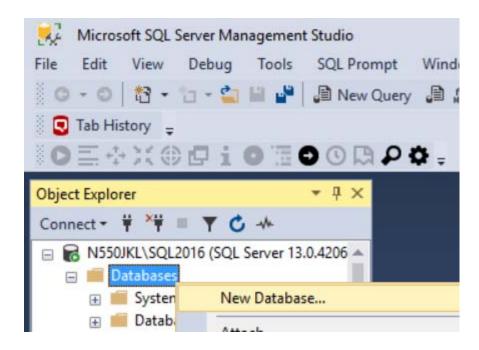
#### 1.1. Create DB: OnlineGame

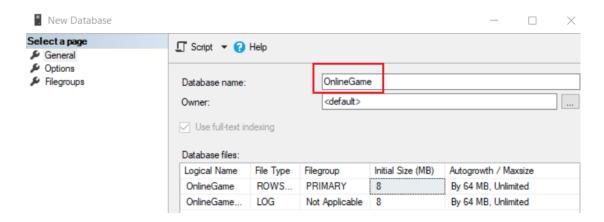
In SQL server Management Studio (SSMS)

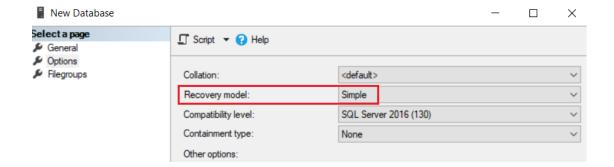
Database --> Right Click --> New Database -->
In General Tab -->

Name: OnlineGame

In options Tab --> Recovery model : Simple







### 1.2. Create Table

--Run the following query to create Gamer Table

```
--1. Drop Table if it exists
IF ( EXISTS ( SELECT
              FROM
                        INFORMATION_SCHEMA.TABLES
              WHERE
                        TABLE_NAME = 'Gamer' ) )
   BEGIN
       TRUNCATE TABLE Gamer;
       DROP TABLE Gamer;
   END;
GO -- Run the previous command and begins new batch
IF ( EXISTS ( SELECT
                        INFORMATION_SCHEMA.TABLES
              FROM
                        TABLE_NAME = 'Team' ) )
              WHERE
   BEGIN
        TRUNCATE TABLE Team;
       DROP TABLE Team;
   END;
GO -- Run the previous command and begins new batch
--2. Create Table
CREATE TABLE Team
      Id INT PRIMARY KEY
             IDENTITY(1, 1)
             NOT NULL,
      [Name] NVARCHAR(100) NULL
GO -- Run the previous command and begins new batch
CREATE TABLE Gamer
      Id INT PRIMARY KEY
             IDENTITY(1, 1)
             NOT NULL,
      [Name] NVARCHAR(100) NULL,
      Gender NVARCHAR (10) NULL,
      City NVARCHAR (50) NULL,
         DateOfBirth DATETIME NULL,
         TeamId INT FOREIGN KEY REFERENCES Team(Id)
   );
GO -- Run the previous command and begins new batch
```

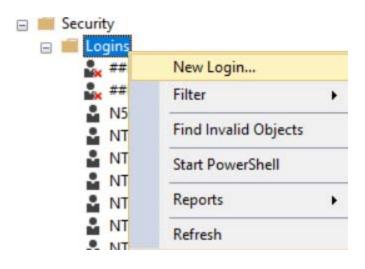
```
--3. Insert Data
INSERT Team
VALUES (N'Team1');
INSERT Team
VALUES (N'Team2');
INSERT Team
VALUES (N'Team3');
INSERT Gamer
VALUES (N'Name01 ABB', N'Male', N'City01', '1979/4/28', 1);
INSERT Gamer
VALUES (N'Name02 CDDE', N'Female', N'City03', '1981/7/24', 2);
VALUES (N'Name03 FIJK', N'Female', N'City01', '1984/12/5', 3);
INSERT Gamer
VALUES (N'Name04 LMOPPQ', N'Male', N'City02', '1983/5/29', 1);
INSERT Gamer
VALUES (N'Name05 QRSTT', N'Male', N'City01', '1979/6/20', 3);
INSERT Gamer
VALUES (N'Name06 TUVVX', N'Female', N'City03', '1984/5/15', 3);
INSERT Gamer
VALUES ( N'Name07 XYZZXX', N'Female', N'City01', '1986/4/29', 2);
INSERT Gamer
VALUES (N'Name08 ABBCDE', N'Male', N'City02', '1985/7/28', 1);
INSERT Gamer
VALUES (N'Name09 QRSTTUVXX', N'Male', N'City02', '1983/4/16', 1);
GO -- Run the previous command and begins new batch
```

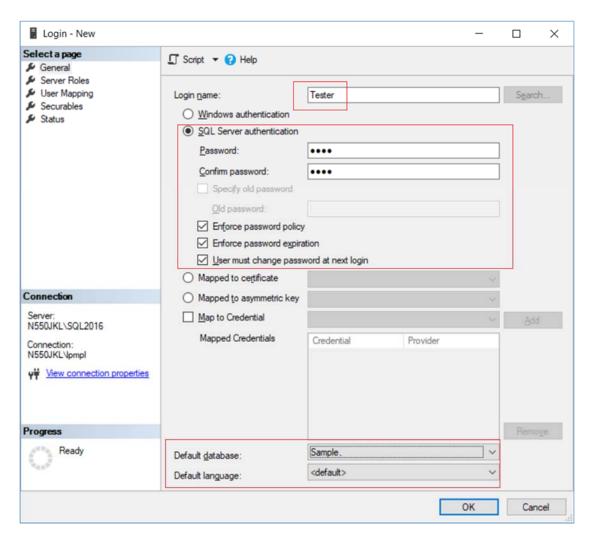
## 1.3. Create Database level security login

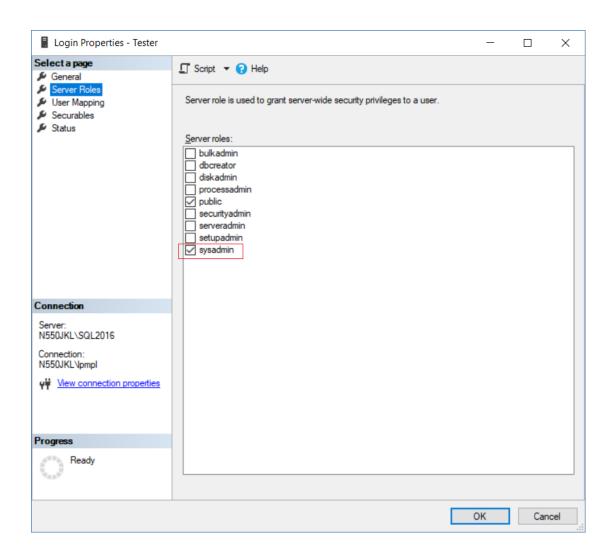
```
Object Explorer --> Security --> Logins --> New Logins
-->
General Tab
Login Name:
Tester
Password:
1234
Default Database:
OnlineGame
-->
Server Roles Tab
Select
sysadmin
-->
User Mapping Tab
Select OnlineGame
```

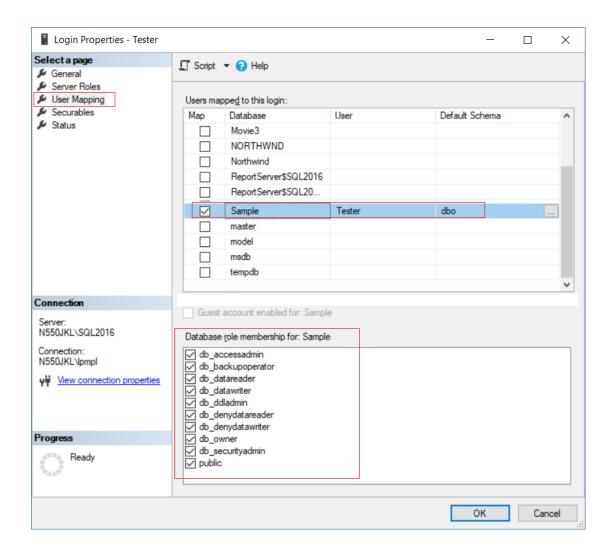
In SQL server

Select every single role.





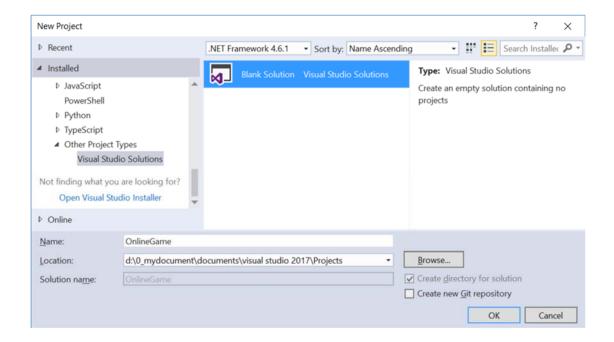




# 2. New Project - OnlineGame

File --> New --> Project... -->
Other Project Types --> Visual Studio Solutions --> Blank Solution

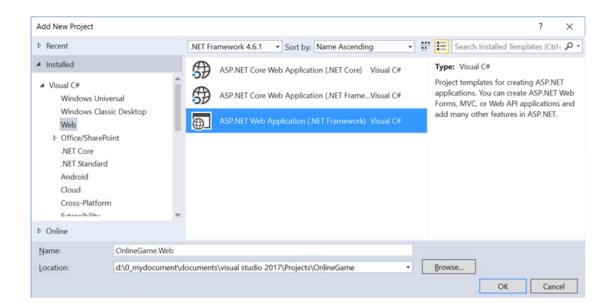
Name: OnlineGame

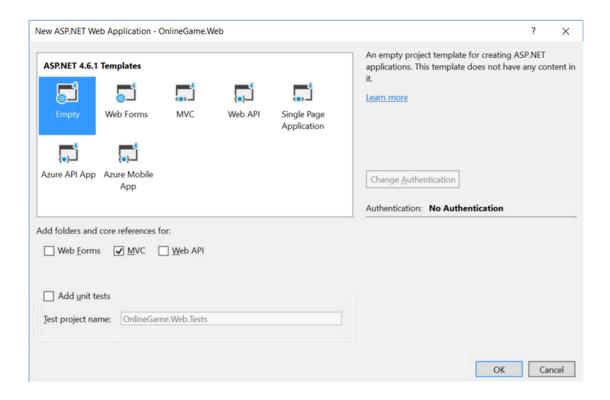


## 2.1. New Project - OnlineGame.Web

Solutions Name --> Add --> New Project -->
Visual C# --> Web --> <u>ASP.NET</u>Web Application (.Net Framework)
-->
Name: **OnlineGame.Web** 

Empty --> Select "MVC" --> OK





### 2.1.1. Global.asax.cs

```
using System.Web.Mvc;
using System.Web.Routing;
namespace OnlineGame.Web
   public class MvcApplication : System.Web.HttpApplication
       //Application_Start() is the magic start point of this application
       protected void Application_Start()
        {
           AreaRegistration.RegisterAllAreas();
           //Register Route Configure in RouteConfig.cs
           //If you want to see route configuration,
           //you may find it in RouteConfig.cs
           //2.
           //System.Web.Routing.RouteCollection Routes { get; }
           //Gets a collection of objects that derive from the System.Web.Routing.RouteBase class.
           RouteConfig.RegisterRoutes(RouteTable.Routes);
}
```

## 2.1.2. App\_Start/RouteConfig.cs

```
using System.Web.Mvc;
using System.Web.Routing;
namespace OnlineGame.Web
{
```

```
public class RouteConfig
        public static void RegisterRoutes(RouteCollection routes)
            //Handle the Route of the axd request file.
            //E.g. ASP.Net Tracing
            routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
            //Handle the Route called "Default".
            //The mapping URL is "{controller}/{action}/{id}"
            //Set the default value of Controller, action, and id.
            routes.MapRoute(
                 name: "Default",
                 url: "{controller}/{action}/{id}",
                 defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
            );
        }
    }
}
/*
//routes.MapRoute(
      name: "Default",
//
      url: "{controller}/{action}/{id}",
//
      defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
//
//);
1.1.
When a request comes in,
it's trying to do a pattern match based on
all the templates it sees in these mapped routes.
A route is some instructions for
how to take a URI coming into a request
and map it to some code,
normally a controller.
In this case,
look at defaults parameter,
when user request <a href="http://localhost:PortNumber/">http://localhost:PortNumber/</a>
IIS Express will run
HomeController Index action.
It will map to Controllers/HomeController.cs
and
      map to Index Method
1.2.
By convention in MVC.
All controllers will have Controller suffix.
This suffix is not required in the URL.
So, if you want to invoke Home controller,
you specify /Home and not /HomeController.
2.
//routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
2.1.
Reference:
https://stackoverflow.com/questions/9016650/what-is-routes-ignorerouteresource-axd-pathinfo
This line can handle the axd file request route,
E.g. trace.axd
.axd files don't exist physically.
ASP.NET uses URLs with .axd extensions
(ScriptResource.axd and WebResource.axd) internally,
and they are handled by an HttpHandler.
Therefore, you should keep this rule,
to prevent <a href="ASP.NET">ASP.NET</a> MVC from trying to handle the request
instead of letting the dedicated HttpHandler do it.
2.2.
trace.axd
Reference:
```

#### https://msdn.microsoft.com/en-us/library/wwh16c6c.aspx

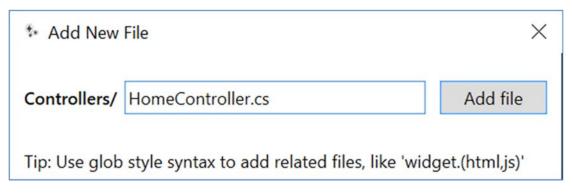
```
trace.axd trace details for a specific request.
If you want to enable trace.axd,
then you have to go to Web.config
Add <trace enabled="true" pageOutput="false"/> under <system.web>
Then run the project, type the following URL
http://localhost/OnlineGame.Web/trace.axd
This will return ASP.NET trace, trace.axd.
If you do not have
// routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
then you can not enable the trace.axd.
*/
```

## 2.2. Controllers/HomeController.cs

Because Add New File (extension and update)

press Shift+F2

Controllers/HomeController.cs



```
using System.Collections.Generic;
using System.Web.Mvc;
namespace OnlineGame.Web.Controllers
{
   public class HomeController : Controller
    {
       //// GET: Home
       //public string Index()
       //{
       //
             return "Hello";
       //}
       ///http://localhost/OnlineGame.Web/home/index/aa?name=bbb
       ////http://localhost/OnlineGame.Web/home/index/aa?name2=bbb
       //public string Index(string id)
       //{
       //
             string queryString = Request.QueryString["name"];
       //
             return $"Hey, Id={id} , name={queryString}";
       //}
       ////http://localhost/OnlineGame.Web/home/index/aa?name=bbb
       ////http://localhost/OnlineGame.Web/home/index/aa?name2=bbb
       //public string Index(string id, string name)
       //{
             // return string.Format("Hey, Id ={0} , name ={1}", id, name);
             return $"Hey, Id ={id} , name ={name}";
       //
       //}
```

```
//public List<string> Index()
//{
//
      return new List<string>
//
      {
//
          "Name01",
//
          "Name02",
//
          "Name03"
//
      };
      // Return System.Collections.Generic.List`1[System.String]
//
//
      // This is Wrong.
//}
//public ActionResult Index()
//{
//
      return View();
//}
//public ActionResult Index()
//{
//
      ViewBag.Names = new List<string>
//
//
              "Name01",
//
              "Name02",
              "Name03"
//
//
          };
//
     return View();
//}
public ActionResult Index()
{
    ///1.
    //ViewBag.Names = new List<string>
    //{
    //
          "ViewBag.Names01",
    //
          "ViewBag.Names02",
          "ViewBag.Names03"
    //
    //};
    ////2.
    //ViewData["Names"] = new List<string>
    //{
    //
          "ViewData[\"Names\"]01",
          "ViewData[\"Names\"]02",
    //
          "ViewData[\"Names\"]03"
    //
    //};
    ////3.
    //ViewBag.Names = new List<string>
    //{
    //
          "ViewBag.Names01",
          "ViewBag.Names02",
    //
          "ViewBag.Names03"
    //
    //};
    //ViewData["Names"] = new List<string>
    //{
    //
          "ViewData[\"Names\"]01",
    //
          "ViewData[\"Names\"]02",
          "ViewData[\"Names\"]03"
    //
```

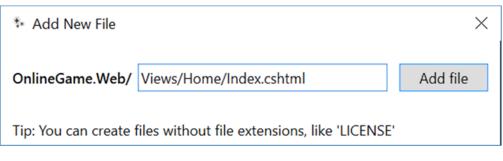
```
//};
            //4.
            ViewBag.Names = new List<string>
            {
                "ViewBag.Names01",
                "ViewBag.Names02",
                "ViewBag.Names03"
            };
            ViewData["Names2"] = new List<string>
                "ViewData[\"Names\"]01",
                "ViewData[\"Names\"]02",
                "ViewData[\"Names\"]03"
            };
            return View();
       public string GetStringA()
        {
            return "AAAAAA";
        }
    }
}
/*
1.
When we try to return a list of data,
return new List<string>
{
    "Name01",
    "Name02",
    "Name03"
};
Then, it will only display the data type of the variable
System.Collections.Generic.List`1[System.String]
This is not what we want,
thus, we need a view to display the data in the format we want.
//public ActionResult Index()
//{
//
      return View();
//}
ViewResult extend ViewResultBase
ViewResultBase extend ActionResult.
Thus, you can return View()
In Home/HomeController.cs
//ViewBag.Names = new List<string>
//{
//
      "ViewBag.Names01",
      "ViewBag.Names02"
//
      "ViewBag.Names03"
//
//};
//ViewData["Names2"] = new List<string>
//{
      "ViewData[\"Names\"]01",
11
      "ViewData[\"Names\"]02",
11
      "ViewData[\"Names\"]03"
//
//};
In Views/HomeIndex.cshtml
//@foreach (string strNames1 in ViewBag.Names)
//{
//
      @strNames1
//}
```

## 2.3. Views/Home/Index.cshtml

Because Add New File (extension and update)

### press Shift+F2

Views/Home/Index.cshtml



```
@model dynamic
<mark>@{</mark>
   ViewBag.Title = "title";
<h2>Name List</h2>
<l
   @*
       @foreach (string strNames1 in ViewBag.Names)
           @strNames1
       @foreach (string strNames2 in (List<string>)ViewData["Names"])
           @strNames2
       @foreach (string strNames1 in ViewBag.Names)
           @strNames1
       }
       <br />
       @foreach (string strNames2 in (List<string>)ViewData["Names"])
           @strNames2
```

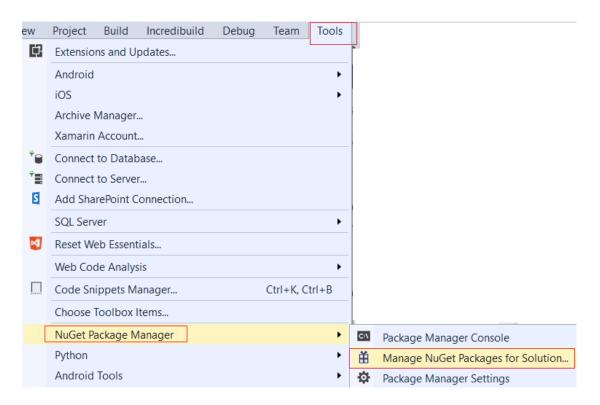
## 2.4. Entity Framework

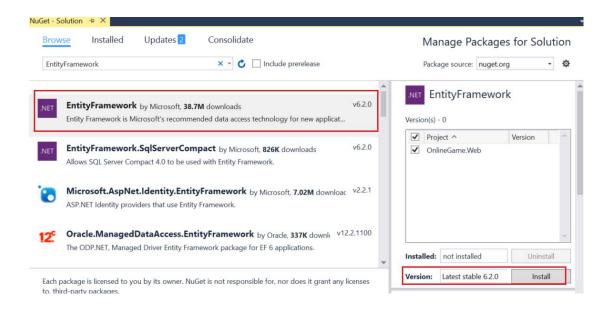
## 2.4.1. Install Entity Framework

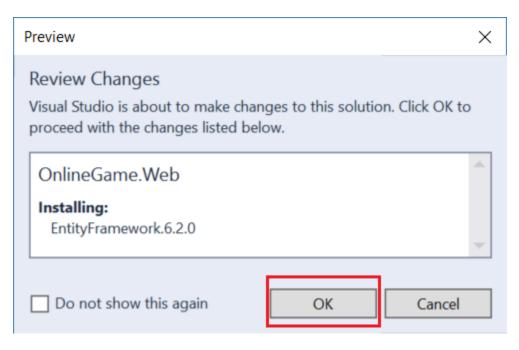
Tools --> NuGet Package Manager --> Manage NuGet Packages for Solutions...

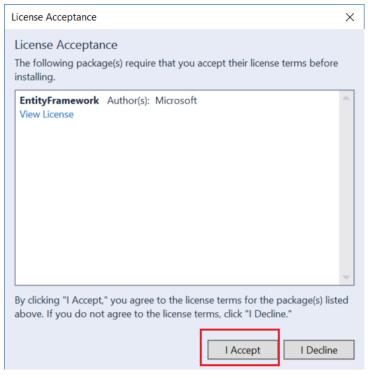
--> Browse tab --> Search : EntityFramework

--> Install it









### 2.4.2. Web.config: Add Connection String

If you have already install EntityFramework dll, then you may skip this step.

```
43 |
44 ⊟
                                                  <entityFramework>
                                                          <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, EntityFramework">
                                                              <parameters>
  <parameter value="mssqllocaldb" />
                                                         </parameters>
</defaultConnectionFactory>
                                                      oviders>
                                                      | ConnectionStrings | ConnectionStrings | ConnectionString="Data Source=N550JKL\SQL2016;Initial Catalog=OnlineGame;User ID=Tester;Password=1234" | ConnectionStrings |
                                         </connectionStrings>
                                              <?xml version="1.0" encoding="utf-8"?:</pre>
                                                    For more information on how to configure
                                                                                                                                                                                                                r ASP.NET application, please visit
                                                  https://go.microsoft.com/fwlink/?LinkId=301880
                                                          <!-- For more information on Entity Framework configuration, visit <a href="https://go.microsoft.com/fwlink/?linkID=237468">https://go.microsoft.com/fwlink/?linkID=237468</a> --> <a href="https://go.microsoft.com/fwlink/?linkID=237468">https://go.micr
                                                      </configSections>
<connectionStrings>
  <add name="OnlineGameContext" connectionString="Data Source=N5503KL\SQL2016;Initial Catalog=OnlineGame;User ID=Tester;Password=1234</pre>
                                                                      providerName="System.Data.SqlClient" />
                                                    <appSettings>
                                                         <add key="webpages:Version" value="3.0.0.0" />
<add key="webpages:Enabled" value="false" />
<add key="ClientValidationEnabled" value="true" />
                                                  <add key="UnobtrusiveJavaScriptEnabled" value="true" />
</appSettings>
                                                 <system.web>
<connectionStrings>
                         <add name="OnlineGameContext" connectionString="Data Source=N550JKL\SQL2016;Initial</pre>
Catalog=OnlineGame; User ID=Tester; Password=1234"
                                                providerName="System.Data.SqlClient" />
             </connectionStrings>
```

Go to Web.config

Add the connection sting on the bottom of Web.config

Please ensure the connection string name "OnlineGameContext" must match the DBContext Name "OnlineGameContext" in next section.

OnlineGameContext class extends DbContext.

When we create an instance object of OnlineGameContext,

it will search the connection string with the name "OnlineGameContext" within web config.

### 2.5. Models

## 2.5.1. Models/Gamer.cs

Because Add New File (extension and update)

## press Shift+F2

Models/Gamer.cs

```
* Add New File
                                                                              X
  OnlineGame.Web/ Models/Gamer.cs
                                                                     Add file
  Tip: You can create files starting with a dot, like '.gitignore'
using System;
using System.ComponentModel.DataAnnotations.Schema;
namespace OnlineGame.Web.Models
{
   //[Table("Gamer"]
    [Table("Gamer", Schema = "dbo")]
   public class Gamer
    {
       public int Id { get; set; }
        [Column("Name")]
       public string Name { get; set; }
       public string Gender { get; set; }
       public string City { get; set; }
       public DateTime DateOfBirth { get; set; }
       public int TeamId { get; set; }
    }
}
/*
1.
///[Table("Gamer"]
//[Table("Gamer", Schema = "dbo")]
//[Column("Name")]
//public string Name { get; set; }
Reference:
http://www.entityframeworktutorial.net/code-first/table-dataannotations-attribute-in-code-first.aspx
http://www.entityframeworktutorial.net/code-first/column-dataannotations-attribute-in-code-first.aspx
In order to map the Gamer Table entity into the Model, Models/Gamer.cs.
You need to add the [Table("Gamer")] attribute in the class level.
Then the EntityFramework will automatically map the Gamer table fields into Gamer Model properties.
Gamer table field, id will automatically map to Gamer Model properties, id,
because it has the same name.
If you want to map 2 different name, then you need [Column("Name")] attribute.
//[Column("Name")]
//public string Name2 { get; set; }
This [Column("Name")] attribute
```

### 2.5.2. Models/Team.cs

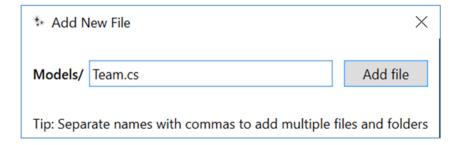
Because Add New File (extension and update)

will map Table Column, Name, to Model Property, Name2.

press Shift+F2

Models/Team.cs

\*/



```
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations.Schema;
namespace OnlineGame.Web.Models
{
    //[Table("Gamer"]
    [Table("Team", Schema = "dbo")]
    public class Team
    {
        public int Id { get; set; }
        [Column("Name")]
        public string Name { get; set; }
        public List<Gamer> Gamers { get; set; }
    }
}
```

## 2.6. Data/OnlineGameContext.cs

```
using System.Data.Entity;
using OnlineGame.Web.Models;
namespace OnlineGame.Web.Data
{
    public class OnlineGameContext : DbContext
    {
        public DbSet<Gamer> Gamers { get; set; }
        public DbSet<Team> Teams { get; set; }
    }
}
```

### 2.7. Team

## 2.7.1. Controllers/TeamController.cs

Because Add New File (extension and update)

Press Shift+F2

Controllers/TeamController.cs

```
* Add New File 

OnlineGame.Web/ Controllers/TeamController.cs Add file

Tip: 'folder/file.ext' also creates a new folder for the file
```

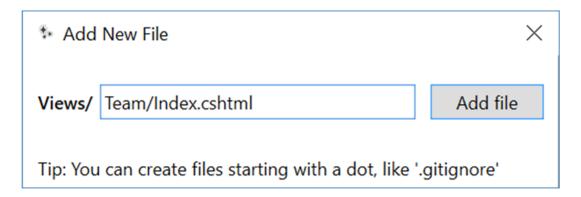
```
using System.Collections.Generic;
using System.Linq;
using System.Web.Mvc;
using OnlineGame.Web.Data;
using OnlineGame.Web.Models;
namespace OnlineGame.Web.Controllers
{
    public class TeamController : Controller
    {
        public ActionResult Index()
        {
            OnlineGameContext context = new OnlineGameContext();
            List<Team> teams = context.Teams.ToList();
            return View(teams);
        }
    }
}
```

## 2.7.2. Views/Team/Index.cshtml

Because Add New File (extension and update)

press Shift+F2

Views/Team/Index.cshtml



```
@using OnlineGame.Web.Models;
@model IEnumerable<Team>
@{
    ViewBag.Title = "Teams List";
}
<div style="font-family: Arial">
    <h2>@ViewBag.Title.ToString()</h2>
```

### 2.8. Gamer

### 2.8.1. Controllers/GamerController.cs

Because Add New File (extension and update)

#### press Shift+F2

Controllers/GamerController.cs



```
using System.Collections.Generic;
using System.Linq;
using System.Web.Mvc;
using OnlineGame.Web.Data;
using OnlineGame.Web.Models;
namespace OnlineGame.Web.Controllers
   public class GamerController : Controller
       // http://localhost/OnlineGame.Web/Gamer/Details
       //public ActionResult Details()
       //{
       //
             var gamer = new Gamer
       //
       //
                 Id = 1,
                  Name = "Name1",
       //
                  Gender = "Male",
       11
                  City = "City1"
       //
       //
              return View(gamer);
       //}
       // http://localhost/OnlineGame.Web/Gamer/Details
       // http://localhost/OnlineGame.Web/Gamer/Details/1
```

```
// http://localhost/OnlineGame.Web/Gamer/Details/2
       // http://localhost/OnlineGame.Web/Gamer/Details/3
       // http://localhost/OnlineGame.Web/Gamer/Details/4
       public ActionResult Details(int id = 0)
        {
           var onlineGameContext = new OnlineGameContext();
           Gamer gamer;
           if (id == 0)
            {
                gamer = new Gamer
                    Id = 0,
                    Name = "Name0",
                    Gender = "NULL",
                    City = "NULL"
               // or you may throw exception here.
            }
           else
            {
                gamer = onlineGameContext.Gamers.Single(p => p.Id == id);
               //Throws exception if can not find the single entity
           return View(gamer);
       public ActionResult Index(int teamId)
        {
           OnlineGameContext context = new OnlineGameContext();
           List<Gamer> gamers = context.Gamers.Where(gamer => gamer.TeamId == teamId).ToList();
           return View(gamers);
        }
    }
//var onlineGameContext = new OnlineGameContext();
//Gamer gamer = onlineGameContext.Gamers.Single(p => p.Id == id);
When user request, EntityFramework will request the data from the database
and sotre its data into a temp place called DBSet.
onlineGameContext.Gamers is a DBSet which is kind of temp place to store the Gamer Table Data.
We use LINQ to map the Gamer Table Column id to Gamer Model property, id.
Thus, we can get the gamer entity from Gamer Table by its id.
Then store gamer entity data into Gamer Model object.
Thus, each Gamer Model object is a temp place to store each Gamer Table entity from the database.
Then we pass the Gamer Model object as the ViewModel,
Thus, the Details.cshtml view can use the values from Gamer Model object
which is actually the temp place to store Gamer Table entity data.
```

### 2.8.2. Views/Gamer/Index.cshtml

Because Add New File (extension and update)

press Shift+F2

Views/Gamer/Index.cshtml

```
* Add New File
                                                        X
 Views/ Gamer/Index.cshtml
                                                 Add file
 Tip: Use glob style syntax to add related files, like 'widget.(html,js)'
@using OnlineGame.Web.Models;
@model List<Gamer>
<u>@{</u>
    ViewBag.Title = "Gamers List";
<div style="font-family: Arial">
   <h2>@ViewBag.Title.ToString()</h2>
   <mark>@</mark>foreach (Gamer gamer in Model)
    {
        <l
            <
                 Team Id: @gamer.TeamId
            <1i>>
                 Gamer Id: @gamer.Id
            <
                 Name: @Html.ActionLink(gamer.Name, "Details", "Gamer", new { id = gamer.Id }, null)
            <br />
    }
</div>
@Html.ActionLink("Back to Gamers List", "Index", "Team")
```

## 2.8.3. Views/Gamer/Details.cshtml

```
@using OnlineGame.Web.Models;
@model Gamer

@{
    ViewBag.Title = "Gamer Details";
}
<h2>Gamer Details</h2>

    Ioi: @Model.Id
    Ioi: Name: @Model.Name
    Ioi: Gender: @Model.Gender
    Ioi: City: @Model.City
    Ioi: DateOfBirth: @Model.DateOfBirth
    Ioi: TeamId: @Model.TeamId

@Html.ActionLink("Back to Gamers List", "Index", "Gamer", new { teamId = Model.TeamId }, null)
```

### 2.9. Run the Web

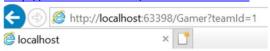
### http://localhost:63398/Team http://localhost:63398/Team/index



### **Teams List**

- Id: 1
- Team1
- · Id: 2
- Team2
- ld: 3
- Team3

### http://localhost:63398/Gamer?teamId=1



#### **Gamers List**

- Team Id: 1Gamer Id: 1
- · Name: Name01 ABB
- Team Id: 1
- · Gamer Id: 4
- Name: <u>Name04 LMOPPQ</u>
- Team Id: 1Gamer Id: 8
- Name: Name08 ABBCDE
- · Team Id: 1
- · Gamer Id: 9
- Name: Name09 QRSTTUVXX

Back to Gamers List

http://localhost:63398/Gamer/Details/1



### **Gamer Details**

• Id: 1

· Name: Name01 ABB

Gender: MaleCity: City01

· DateOfBirth: 28/04/1979 12:00:00 AM

· TeamId: 1

#### Back to Gamers List

#### http://localhost:63398/



### **Name List**

4.

- · ViewBag.Names01
- · ViewBag.Names02
- ViewBag.Names03
- ViewData["Names"]01
- ViewData["Names"]02
- ViewData["Names"]03