(T5)討論 MvcConventions(命名規則)。討論 AdoNet、BusinessLayer 的 Update CourseGUID: 8503b39c-5887-4634-8291-facfb3117924

(T5)討論 MvcConventions(命名規則)。討論 AdoNet、BusinessLayer 的 Update

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0. Summary

In this tutorial, we will discuss

- * MvcConventions
- * AdoDotNet
- * BusinessLayer
- * UpdateData
- * UnintendedUpdate

This is continuous with the previous tutorial.

Please ensure you finish the previous tutorial before you continue this tutorial.

1. OnlineGame DB

1.1. TSQL

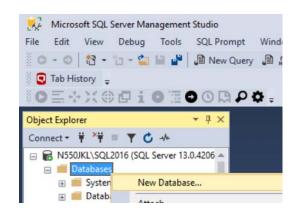
In SQL server Management Studio (SSMS)

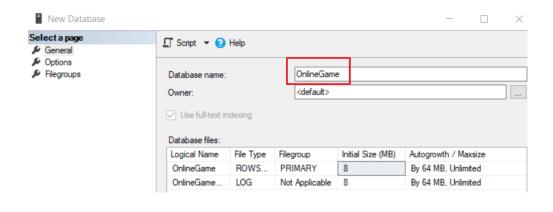
Database --> Right Click --> New Database -->

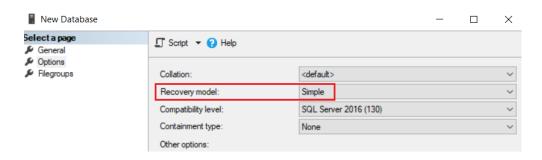
In General Tab -->

Name: OnlineGame

In options Tab --> Recovery model : Simple







```
--1. Drop if it exists
--Drop Table if it exists.
IF ( EXISTS ( SELECT
              FROM
                        INFORMATION SCHEMA.TABLES
                        TABLE_NAME = 'Gamer' ) )
              WHERE
   BEGIN
       TRUNCATE TABLE Gamer;
       DROP TABLE Gamer;
   END;
GO -- Run the previous command and begins new batch
IF ( EXISTS ( SELECT
              FROM
                        INFORMATION_SCHEMA.TABLES
              WHERE
                        TABLE_NAME = 'Team' ) )
   BEGIN
       TRUNCATE TABLE Team;
       DROP TABLE Team;
   END;
GO -- Run the previous command and begins new batch
--Drop Stored Procedure if it exists.
--IF OBJECT_ID('spSearchGamer') IS NOT NULL
IF ( EXISTS ( SELECT
```

```
FROM
                        INFORMATION_SCHEMA.ROUTINES
              WHERE
                        ROUTINE_TYPE = 'PROCEDURE'
                        AND LEFT(ROUTINE_NAME, 3) NOT IN ( 'sp_', 'xp_', 'ms_')
                        AND SPECIFIC_NAME = 'spGetGamers'))
   BEGIN
       DROP PROCEDURE spGetGamers;
   END;
GO -- Run the previous command and begins new batch
IF ( EXISTS ( SELECT
              FROM
                        INFORMATION SCHEMA.ROUTINES
              WHERE
                        ROUTINE_TYPE = 'PROCEDURE'
                        AND LEFT(ROUTINE_NAME, 3) NOT IN ( 'sp_', 'xp_', 'ms_')
                        AND SPECIFIC_NAME = 'spAddGamer'))
   BEGIN
       DROP PROCEDURE spAddGamer;
   END;
GO -- Run the previous command and begins new batch
IF ( EXISTS ( SELECT
                        INFORMATION_SCHEMA.ROUTINES
              FROM
              WHERE
                        ROUTINE_TYPE = 'PROCEDURE'
                        AND LEFT(ROUTINE_NAME, 3) NOT IN ( 'sp_', 'xp_', 'ms_')
                        AND SPECIFIC_NAME = 'spSaveGamer'))
   BEGIN
       DROP PROCEDURE spSaveGamer;
   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);
INSERT Gamer
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
CREATE PROCEDURE spGetGamers
AS
   BEGIN
       SELECT *
       FROM
                Gamer:
   END;
GO -- Run the previous command and begins new batch
CREATE PROCEDURE spAddGamer
      @Name NVARCHAR(50),
      @Gender NVARCHAR(10),
      @City NVARCHAR(50) ,
      @DateOfBirth DateTime ,
      @TeamId INT
AS
   BEGIN
       INSERT INTO Gamer
       VALUES (@Name, @Gender, @City, @DateOfBirth, @TeamId);
   END;
GO -- Run the previous command and begins new batch
CREATE PROCEDURE spSaveGamer
   (
      @Id INT ,
      @Name NVARCHAR(50),
      @Gender NVARCHAR(10),
      @City NVARCHAR(50) ,
      @DateOfBirth DateTime ,
      @TeamId INT
AS
   BEGIN
       UPDATE
               dbo.Gamer
       SET
               Name = @Name ,
                Gender = @Gender ,
                City = @City,
```

1.2. Security login

In SQL server

Object Explorer --> Security --> Logins --> New Logins

-->

General Tab

Login Name:

Tester

Password:

1234

Default Database:

OnlineGame

-->

Server Roles Tab

Select

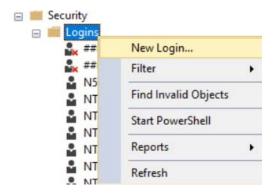
sysadmin

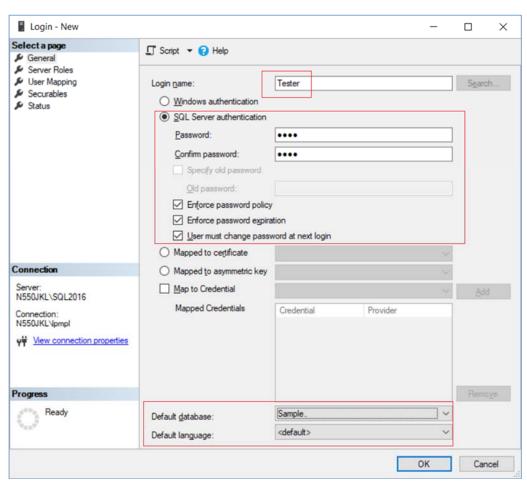
-->

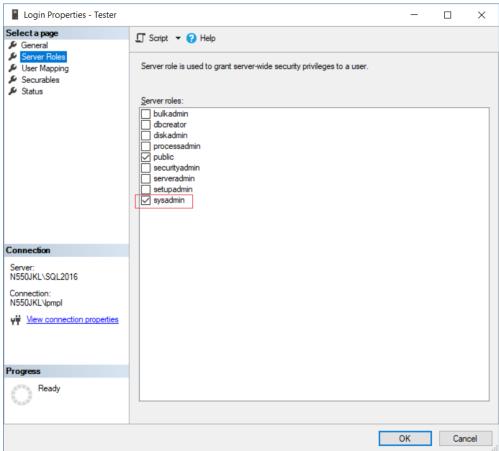
User Mapping Tab

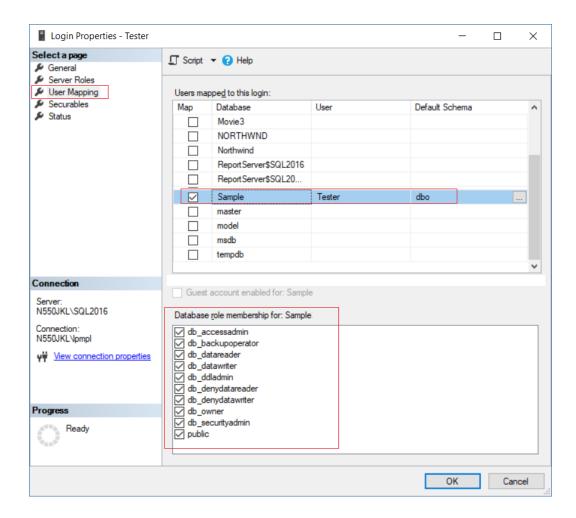
Select OnlineGame

Select every single role.









2. BusinessLayer

2.1. BusinessLayer/IGamer.cs

```
using System;
namespace BusinessLayer
{
    public interface IGamer
    {
        int Id { get; set; }
        string Gender { get; set; }
        string City { get; set; }
        DateTime? DateOfBirth { get; set; }
        int TeamId { get; set; }
    }
}
```

2.2. BusinessLayer/Gamer.cs

```
usingSystem.ComponentModel.DataAnnotations;
namespace BusinessLayer
   public class Gamer : IGamer
    {
       public int Id { get; set; }
       //[Required]
       public string Name { get; set; }
        [Required]
        public string Gender { get; set; }
        [Required]
       public string City { get; set; }
        [Required]
        public DateTime? DateOfBirth { get; set; }
        [Required]
       public int TeamId { get; set; }
}
```

2.3. BusinessLayer/GamerBusinessLayer.cs

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
namespace BusinessLayer
{
   public class GamerBusinessLayer
       public IEnumerable<Gamer> Gamers
        {
           get
            {
                string connectionString =
                    ConfigurationManager.ConnectionStrings["OnlineGameContext"].ConnectionString;
                List<Gamer> gamers = new List<Gamer>();
                using (SqlConnection con = new SqlConnection(connectionString))
                {
                    SqlCommand cmd = new SqlCommand("spGetGamers", con);
cmd.CommandType = CommandType.StoredProcedure;
                    con.Open();
                    SqlDataReader rdr = cmd.ExecuteReader();
                    while (rdr.Read())
                    {
                        Gamer gamer = new Gamer();
                        gamer.Id = Convert.ToInt32(rdr["Id"]);
                        gamer.Name = rdr["Name"].ToString();
                        gamer.Gender = rdr["Gender"].ToString();
                        gamer.City = rdr["City"].ToString();
                        gamer.DateOfBirth = Convert.ToDateTime(rdr["DateOfBirth"]);
                        gamer.TeamId = Convert.ToInt32(rdr["TeamId"]);
                        gamers.Add(gamer);
                }
```

```
return gamers;
     }
 }
public void AddGamer(Gamer gamer)
 {
     string connectionString =
     ConfigurationManager.ConnectionStrings["OnlineGameContext"].ConnectionString;
     using (SqlConnection con = new SqlConnection(connectionString))
         SqlCommand cmd = new SqlCommand("spAddGamer", con)
         {
              CommandType = CommandType.StoredProcedure
         };
         SqlParameter sqlParamName = new SqlParameter
              ParameterName = "@Name",
             Value = gamer.Name
         cmd.Parameters.Add(sqlParamName);
         SqlParameter sqlParamGender = new SqlParameter
         {
              ParameterName = "@Gender",
             Value = gamer.Gender
         };
         cmd.Parameters.Add(sqlParamGender);
         SqlParameter sqlParamCity = new SqlParameter
              ParameterName = "@City",
              Value = gamer.City
         };
         cmd.Parameters.Add(sqlParamCity);
         SqlParameter sqlParamDateOfBirth = new SqlParameter
         {
              ParameterName = "@DateOfBirth",
             Value = gamer.DateOfBirth
         cmd.Parameters.Add(sqlParamDateOfBirth);
         SqlParameter sqlParamTeamId = new SqlParameter
         {
              ParameterName = "@TeamId",
             Value = gamer.TeamId
         };
         cmd.Parameters.Add(sqlParamTeamId);
         con.Open();
         cmd.ExecuteNonQuery();
     }
 }
public void SaveGamer(Gamer gamer)
 {
     string connectionString =
             ConfigurationManager.ConnectionStrings["OnlineGameContext"].ConnectionString;
     using (SqlConnection con = new SqlConnection(connectionString))
     {
         SqlCommand cmd = new SqlCommand("spSaveGamer", con)
         {
             CommandType = CommandType.StoredProcedure
         };
         SqlParameter sqlParamId = new SqlParameter
         {
```

```
ParameterName = "@Id",
                    Value = gamer.Id
                };
                cmd.Parameters.Add(sqlParamId);
                SqlParameter sqlParamName = new SqlParameter
                    ParameterName = "@Name",
                    Value = gamer.Name
                };
                cmd.Parameters.Add(sqlParamName);
                SqlParameter sqlParamGender = new SqlParameter
                    ParameterName = "@Gender",
                    Value = gamer.Gender
                cmd.Parameters.Add(sqlParamGender);
                SqlParameter sqlParamCity = new SqlParameter
                {
                    ParameterName = "@City",
                    Value = gamer.City
                cmd.Parameters.Add(sqlParamCity);
                SqlParameter sqlParamDateOfBirth = new SqlParameter
                    ParameterName = "@DateOfBirth",
                    Value = gamer.DateOfBirth
                };
                cmd.Parameters.Add(sqlParamDateOfBirth);
                SqlParameter sqlParamTeamId = new SqlParameter
                {
                    ParameterName = "@TeamId",
                    Value = gamer.TeamId
                cmd.Parameters.Add(sqlParamTeamId);
                con.Open();
                cmd.ExecuteNonQuery();
            }
        }
   }
}
```

3. OnlineGame.Web

3.1. OnlineGame.Web/Controllers/GamerController.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web.Mvc;
using BusinessLayer;
```

```
using OnlineGame.Web.Data;
using Gamer = OnlineGame.Web.Models.Gamer;
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",
       //
       //
                 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);
       //Entity Framework
       public ActionResult Index(int teamId)
           //Entity Framework
           OnlineGameContext context = new OnlineGameContext();
           List<Gamer> gamers = context.Gamers.Where(gamer => gamer.TeamId == teamId).ToList();
           return View(gamers);
       //Ado.Net
       public ActionResult Index2()
        {
```

```
//Ado.Net
    GamerBusinessLayer gamerBusinessLayer = new GamerBusinessLayer();
    List<BusinessLayer.Gamer> gamers = gamerBusinessLayer.Gamers.ToList();
    return View(gamers);
}
//Ado.Net
//[HttpGet] attribute means it only respond to the "GET" request.
[HttpGet]
public ActionResult Create()
    return View();
}
//Ado.Net
// 1. Retrieve form data using FormCollection
[HttpPost]
public ActionResult Create(FormCollection formCollection)
    ////FormCollection implement C# indexer.
    ////See each key and value of formCollection.
    //foreach (string key in formCollection.AllKeys)
    //{
    //
          Response.Write($"key=={key}, {formCollection[key]}, <br/>");
    //}
    int teamId;
    BusinessLayer.Gamer gamer = new BusinessLayer.Gamer
        Name = formCollection["Name"],
        Gender = formCollection["Gender"],
        City = formCollection["City"],
        DateOfBirth = Convert.ToDateTime(formCollection["DateOfBirth"]),
        TeamId = int.TryParse(formCollection["TeamId"], out teamId) ? teamId : 0
    };
    GamerBusinessLayer gamerBusinessLayer =
        new GamerBusinessLayer();
    gamerBusinessLayer.AddGamer(gamer);
    return RedirectToAction("Index2");
}
//Ado.Net
// 2. Retrieve form data using name attribute of input tag from cshtml
[HttpPost]
public ActionResult Create2(string name, string gender, string city, DateTime dateOfBirth, int teamId)
    BusinessLayer.Gamer gamer = new BusinessLayer.Gamer
        Name = name,
        Gender = gender,
        City = city,
        DateOfBirth = dateOfBirth,
        TeamId = teamId
    };
    GamerBusinessLayer gamerBusinessLayer =
        new GamerBusinessLayer();
    gamerBusinessLayer.AddGamer(gamer);
    return RedirectToAction("Index2");
}
```

```
// 3. Retrieve form data using model binding
 [HttpPost]
 public ActionResult Create3(BusinessLayer.Gamer gamer)
     //if any of input is not valid.
     if (!ModelState.IsValid)
         return View("Create");
         //Go to Create.cshtml,
         //so users can correct their input value.
     }
    GamerBusinessLayer gamerBusinessLayer =
         new GamerBusinessLayer();
     gamerBusinessLayer.AddGamer(gamer);
     return RedirectToAction("Index2");
 }
 //Ado.Net
 // 4. Retrieve form data using model binding by UpdateModel() or TryUpdateModel()
 [HttpPost]
 [ActionName("Create4")]
 public ActionResult Create_Post()
 {
     //if any of input is not valid.
     if (!ModelState.IsValid)
         return View("Create");
         //Go to Create.cshtml,
         //so users can correct their input value.
     }
     GamerBusinessLayer gamerBusinessLayer =
         new GamerBusinessLayer();
     BusinessLayer.Gamer gamer = new BusinessLayer.Gamer();
     //UpdateModel<BusinessLayer.Gamer>(gamer);
     //UpdateModel(gamer);
     TryUpdateModel(gamer);
    //1.
     // UpdateModel() and TryUpdateModel() inspects all the HttpRequest inputs
     // such as posted Form data, QueryString,
     // Cookies and Server variables and populate the gamer object.
     gamerBusinessLayer.AddGamer(gamer);
     return RedirectToAction("Index2");
 }
 //Ado.Net
 //[HttpGet] attribute means it only respond to the "GET" request.
 [HttpGet]
public ActionResult Edit(int id)
     GamerBusinessLayer gamerBusinessLayer = new GamerBusinessLayer();
     BusinessLayer.Gamer gamer = gamerBusinessLayer.Gamers.Single(g => g.Id == id);
     return View(gamer);
 }
//Ado.Net
//1.
//Edit by Model binding will open the back door for unintended update.
 [HttpPost]
```

```
public ActionResult Edit(BusinessLayer.Gamer gamer)
           if (!ModelState.IsValid)
               return View(gamer);
           GamerBusinessLayer gamerBusinessLayer =
               new GamerBusinessLayer();
            gamerBusinessLayer.SaveGamer(gamer);
           return RedirectToAction("Index2");
       //Ado.Net
       //2.
       //Solved the unintended update.
       //Edit by UpdateModel() and TryUpdateModel()
        [HttpPost]
        [ActionName("Edit2")]
       public ActionResult Edit_Post(int id)
           GamerBusinessLayer gamerBusinessLayer =
               new GamerBusinessLayer();
            BusinessLayer.Gamer gamer = gamerBusinessLayer.Gamers.Single(g => g.Id == id);
           //1.
           ////UpdateModel(gamer, new[] { "Id", "Gender", "City", "DateOfBirth", "TeamId" });
           //The second parameter of UpdateModel() and TeyUpdateModel() is included properties.
           //In this case, it will only update the following properties into the model.
           //"Id", "Gender", "City", "DateOfBirth", "TeamId"
           //The Name property is not included so it will not be updated.
           //2.
           ///UpdateModel(gamer, null, null, new[] { "Name" });
           //update all properties except Name property
            UpdateModel(gamer, null, null, new[] { "Name" });
           if (!ModelState.IsValid)
            {
               return View("Edit", gamer);
            gamerBusinessLayer.SaveGamer(gamer);
           return RedirectToAction("Index2");
        }
       //Ado.Net
       //3.
       //Solved the unintended update.
       //Edit by Model binding with Bind include attribute
        [HttpPost]
       public ActionResult Edit3([Bind(Include = "Id, Gender, City, DateOfBirth,
TeamId")]BusinessLayer.Gamer gamer)
        {
           GamerBusinessLayer gamerBusinessLayer =
               new GamerBusinessLayer();
            gamer.Name = gamerBusinessLayer.Gamers.Single(g => g.Id == gamer.Id).Name;
           if (!ModelState.IsValid)
               return View("Edit", gamer);
            gamerBusinessLayer.SaveGamer(gamer);
           return RedirectToAction("Index2");
        }
```

```
//Ado.Net
 //4.
 //Solved the unintended update.
//Edit by Model binding with Bind exclude attribute
 [HttpPost]
 public ActionResult Edit4([Bind(Exclude = "Name")]BusinessLayer.Gamer gamer)
     GamerBusinessLayer gamerBusinessLayer =
         new GamerBusinessLayer();
     gamer.Name = gamerBusinessLayer.Gamers.Single(g => g.Id == gamer.Id).Name;
     if (!ModelState.IsValid)
         return View("Edit", gamer);
     gamerBusinessLayer.SaveGamer(gamer);
     return RedirectToAction("Index2");
 }
//Ado.Net
//5.
//Solved the unintended update.
//Edit by UpdateModel() and TryUpdateModel() with Interface
 [HttpPost]
 public ActionResult Edit5(int id)
 {
     GamerBusinessLayer gamerBusinessLayer =
         new GamerBusinessLayer();
     BusinessLayer.Gamer gamer = gamerBusinessLayer.Gamers.Single(g => g.Id == id);
     //1.
     ////TryUpdateModel(gamer, new[] { "Id", "Gender", "City", "DateOfBirth", "TeamId" });
     ////UpdateModel(gamer, new[] { "Id", "Gender", "City", "DateOfBirth", "TeamId" });
    //The second parameter of UpdateModel() and TeyUpdateModel() is included properties.
     //In this case, it will only update the following properties into model.
    //"Id", "Gender", "City", "DateOfBirth", "TeamId"
     //The Name property is not included so it will not be updated.
    //2.
    ////TryUpdateModel(gamer, null, null, new[] { "Name" });
     ////UpdateModel(gamer, null, null, new[] { "Name" });
     //update all properties except Name property
    ///TryUpdateModel<IGamer>(gamer);
     ////UpdateModel<IGamer>(gamer);
     //The UpdateModel() function will update only the properties
     //that are present in the interface.
     UpdateModel<IGamer>(gamer);
     if (!ModelState.IsValid)
     {
         return View("Edit", gamer);
     gamerBusinessLayer.SaveGamer(gamer);
     return RedirectToAction("Index2");
 }
```

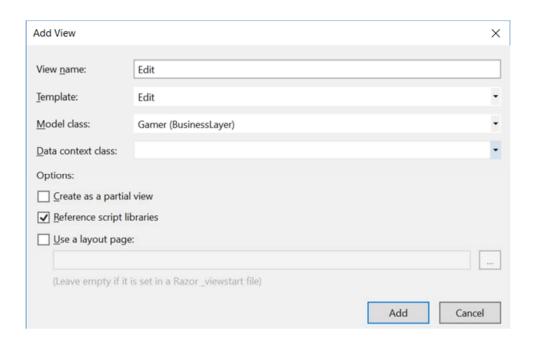
}

}

```
/*
1.
//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 the temp place to store Gamer Table entity data.
_____
2.
//[HttpGet]
//public ActionResult Create()
The GET request will direct to Views/Gamer/Create.cshtml.
______
//[HttpPost]
//Create
3.1.
//[HttpPost]
//public ActionResult Create(FormCollection formCollection)
Retrieve form data using FormCollection.
The key is the name attribute of input or select tag from cshtml.
______
3.2.
//[HttpPost]
//public ActionResult Create2(string name, string gender, string city, DateTime dateOfBirth, int teamId)
Retrieve form data using name attribute of input tag from cshtml.
string name is from
//<input class="form-control text-box single-line" id="Name" name="Name" type="text" value="">
3.2.2.
string gender is from
//<select id="Gender" name="Gender">...</select>
3.2.3.
string city is from
<input class="form-control text-box single-line" id="City" name="City" type="text" value="">
3.2.4.
DateTime dateOfBirth is from
//<input class="form-control text-box single-line" data-val="true" data-val-date="The field DateOfBirth
must be a date." data-val-required="The DateOfBirth field is required." id="DateOfBirth"
name="DateOfBirth" type="datetime" value="">
3.2.5.
int teamId is from
//<input class="form-control text-box single-line" data-val="true" data-val-number="The field TeamId must
be a number." data-val-required="The TeamId field is required." id="TeamId" name="TeamId" type="number"
value="">
3.3.
//[HttpPost]
//public ActionResult Create3(BusinessLayer.Gamer gamer)
If the view has a lot of input,
then the previous two ways is not a good idea.
It is always better to retrieve form data using model binding.
The model of the cshtml is BusinessLayer.Gamer,
so we can pass the model object into HttpPost action.
The property value of model object will contain the value
from input or select tag from cshtml based on name attribute.
3.4.
```

```
//[HttpPost]
//[ActionName("Create4")]
//public ActionResult Create Post()
Retrieve form data using model binding by UpdateModel() or TryUpdateModel()
//BusinessLayer.Gamer gamer = new BusinessLayer.Gamer();
//UpdateModel<BusinessLayer.Gamer>(gamer);
//UpdateModel(gamer);
//TryUpdateModel(gamer);
3.4.1.
UpdateModel() and TryUpdateModel() inspects all the HttpRequest inputs
such as posted Form data, QueryString,
Cookies and Server variables and populate the gamer object.
3.4.2.
UpdateModel() throws an exception if validation fails.
TryUpdateModel() will never throw an exception and
return false if validation fails.
_ _ _ _ _ _ _ _
3.4.3.
//UpdateModel(gamer, new[] { "Id", "Gender", "City", "DateOfBirth", "TeamId" });
//TryUpdateModel(gamer, new[] { "Id", "Gender", "City", "DateOfBirth", "TeamId" });
The second parameter of UpdateModel() and TeyUpdateModel() is included properties.
In this case, it will only update the following properties into model.
"Id", "Gender", "City", "DateOfBirth", "TeamId"
The Name property is not included so it will not be updated.
3.4.4.
//TryUpdateModel(gamer, null, null, new[] { "Name" });
//UpdateModel(gamer, null, null, new[] { "Name" });
update all properties except Name property
3.4.5.
//TryUpdateModel<IGamer>(gamer);
//UpdateModel<IGamer>(gamer);
The UpdateModel() function will update only the properties
that are present in the interface.
4.
//[HttpPost]
//Edit
4.1.
//[HttpPost]
//public ActionResult Edit(BusinessLayer.Gamer gamer)
Edit by Model binding will open the back door for unintended update.
4.2.
//[HttpPost]
//[ActionName("Edit2")]
//public ActionResult Edit_Post(int id)
Solved the unintended update.
Edit by UpdateModel() and TryUpdateModel()
-----
4.3.
//public ActionResult Edit3([Bind(Include = "Id, Gender, City, DateOfBirth, TeamId")]BusinessLayer.Gamer
gamer)
Solved the unintended update.
Edit by Model binding with Bind include attribute
4.4.
//[HttpPost]
//public ActionResult Edit4([Bind(Exclude = "Name")]BusinessLayer.Gamer gamer)
Solved the unintended update.
```

3.2. OnlineGame.Web/Views/Gamer/Edit.cshtml



```
@model BusinessLayer.Gamer
@{
    Layout = null;
<script src="~/Scripts/jquery-1.10.2.min.js"></script>
<script src="~/Scripts/jquery.validate.min.js"></script>
<script src="~/Scripts/jquery.validate.unobtrusive.min.js"></script>
<div class="row">
   <h2>Update Gamer</h2>
   @*@using (Html.BeginForm("Edit", "Gamer"))*@
   @*@using (Html.BeginForm("Edit2", "Gamer"))*@
   @*@using (Html.BeginForm("Edit3", "Gamer"))*@
   @*@using (Html.BeginForm("Edit4", "Gamer"))*@
   @using (Html.BeginForm("Edit5", "Gamer"))
       <div class="form-horizontal">
           @Html.ValidationSummary(true, "", new { @class = "text-danger" })
           @Html.HiddenFor(model => model.Id)
           <div class="form-group">
               @Html.LabelFor(model => model.Name, new { @class = "control-label col-md-2" })
                <div class="col-md-10">
                    @*@Html.EditorFor(model => model.Name, new {htmlAttributes = new {@class = "form-
control"}})*@
                   @Html.HiddenFor(model => model.Name, new { htmlAttributes = new { @class = "form-
control" } })
```

```
@Html.DisplayFor(model => model.Name, new { htmlAttributes = new { @class = "form-
control" } })
                    @Html.ValidationMessageFor(model => model.Name, "", new { @class = "text-danger" })
                </div>
            </div>
            <div class="form-group">
                @Html.LabelFor(model => model.Gender, new { @class = "control-label col-md-2" })
                <div class="col-md-10">
                    <mark>@*</mark>@Html.EditorFor(model => model.Gender, new { htmlAttributes = new { @class = "form-
control" } })*@
                    @*@Html.DropDownList("Gender",new List<SelectListItem>
                             new SelectListItem{Text = "Male", Value = "Male"},
                             new SelectListItem{Text = "Female", Value = "Female"}
                         })*@
                    @Html.DropDownList("Gender", new List<SelectListItem>
                        new SelectListItem{Text = "Male", Value = "Male"},
                        new SelectListItem{Text = "Female", Value = "Female"}
                    }, "Select Gender")
                    @Html.ValidationMessageFor(model => model.Gender, "", new { @class = "text-danger" })
                </div>
            </div>
            <div class="form-group">
                @Html.LabelFor(model => model.City, new { @class = "control-label col-md-2" })
                <div class="col-md-10">
                    @Html.EditorFor(model => model.City, new { htmlAttributes = new { @class = "form-
control" } })
                    @Html.ValidationMessageFor(model => model.City, "", new { @class = "text-danger" })
                </div>
            </div>
            <div class="form-group">
                @Html.LabelFor(model => model.DateOfBirth, new { @class = "control-label col-md-2" })
                <div class="col-md-10">
                    <mark>@</mark>Html.EditorFor(model => model.DateOfBirth, new {    htmlAttributes = new { @class = "form-
control" } })
                    @Html.ValidationMessageFor(model => model.DateOfBirth, "", new { @class = "text-
danger" })
                </div>
            </div>
            <div class="form-group">
                @Html.LabelFor(model => model.TeamId, new { @class = "control-label col-md-2" })
                <div class="col-md-10">
                    @Html.EditorFor(model => model.TeamId, new { htmlAttributes = new { @class = "form-
control" } })
                    @Html.ValidationMessageFor(model => model.TeamId, "", new { @class = "text-danger" })
                </div>
            </div>
            <div class="form-group">
                <div class="col-md-offset-2 col-md-10">
                    <input type="submit" value="Save" class="btn btn-default" />
                </div>
            </div>
        </div>
```

```
}
   <div>
       @Html.ActionLink("Back to List", "Index2")
   </div>
</div>
<mark>@*</mark>
1.
1.1.
//@Html.HiddenFor(model => model.Name, new { htmlAttributes = new { @class = "form-control" } })
It will create the following.
//<input data-val="true" data-val-required="The Name field is required." htmlattributes="{ class = form-
control }" id="Name" name="Name" type="hidden" value="Name01 ABB">
1.2.
//@Html.DisplayFor(model => model.Name, new { htmlAttributes = new { @class = "form-control" } })
It will create the following.
//Name01 ABB
1.3.
//@Html.EditorFor(model => model.Name, new {htmlAttributes = new {@class = "form-control"}})
It will create the following.
//<input class="form-control text-box single-line valid" id="Name" name="Name" type="text" value="Name01
ABB">
*@
```