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475 Granville Street, Vancouver, BC, V6C 1T1
Phone: +1(604)558-8727, +1(604)409-8200
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Email: studying@itdcanada.ca

# ASP Club

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# Covered Topics

- Set up
- Adding Models
- Adding Controller
- Adding View
- Adding Database
- HTTP GET Index
- HTTP Post Create Member
- HTTP Post Edit Member

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# Set Up

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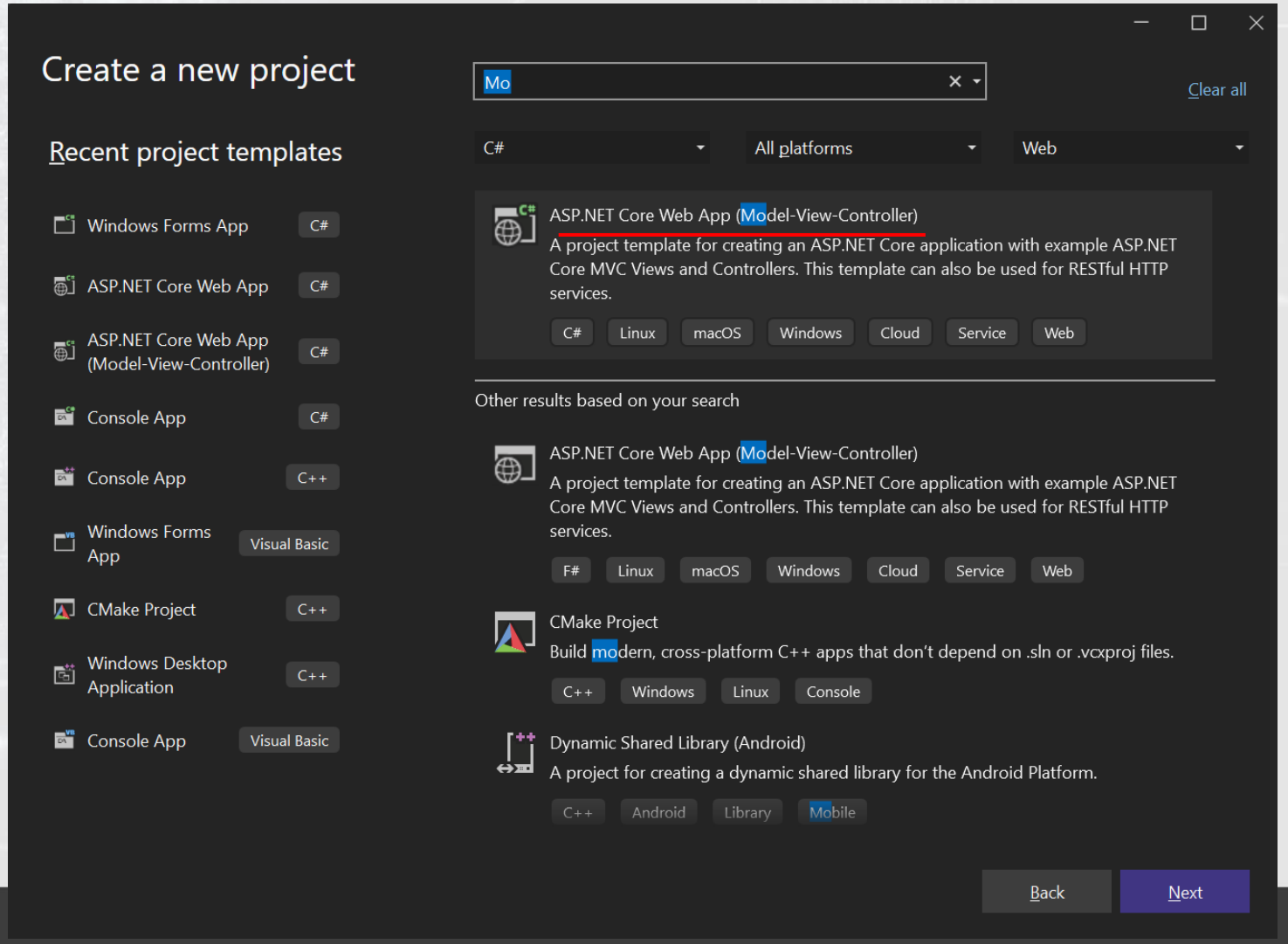
# ASP CLUB

- Choose the model-view-controller



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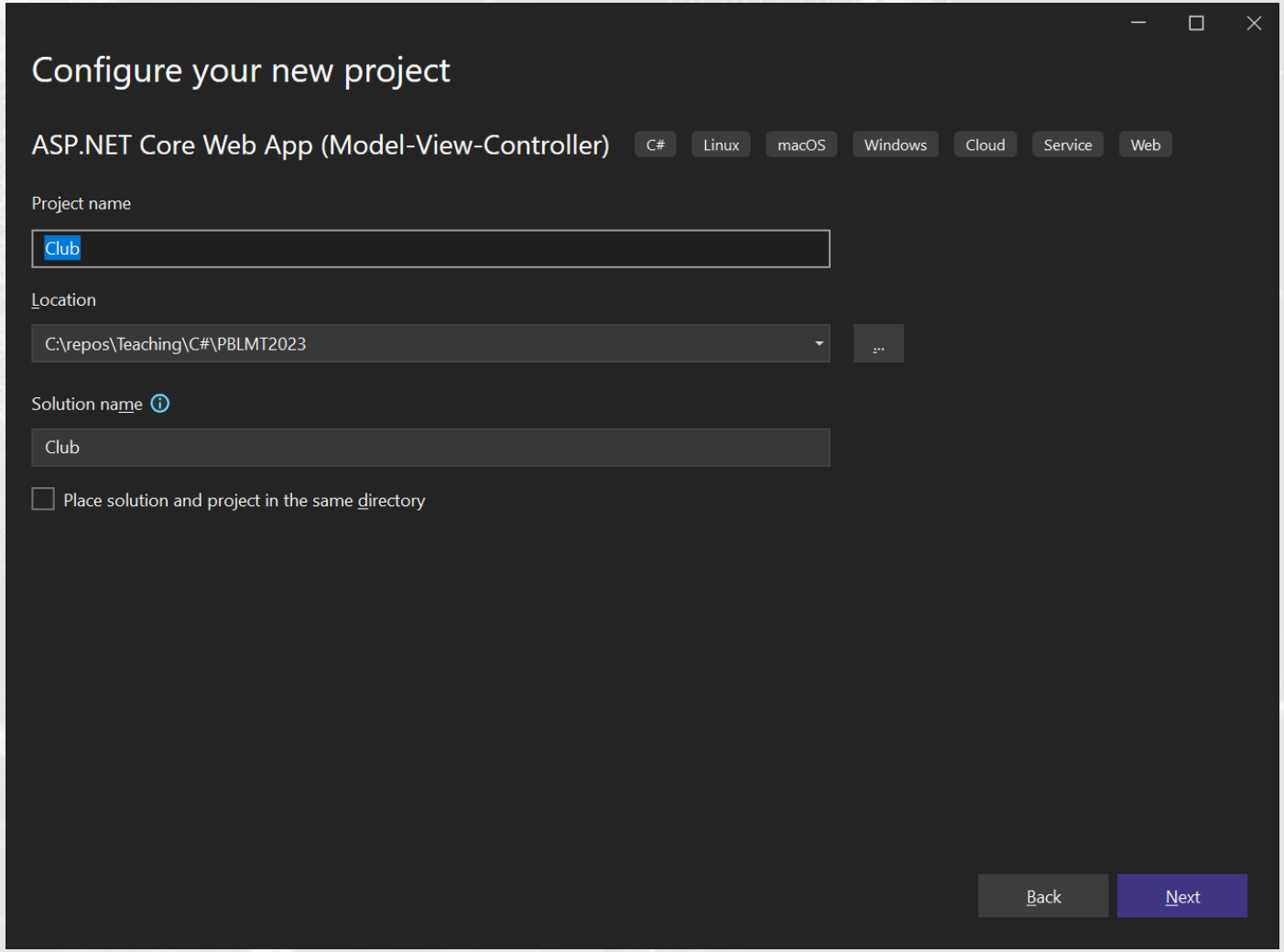
# ASP Club

- Call it Club



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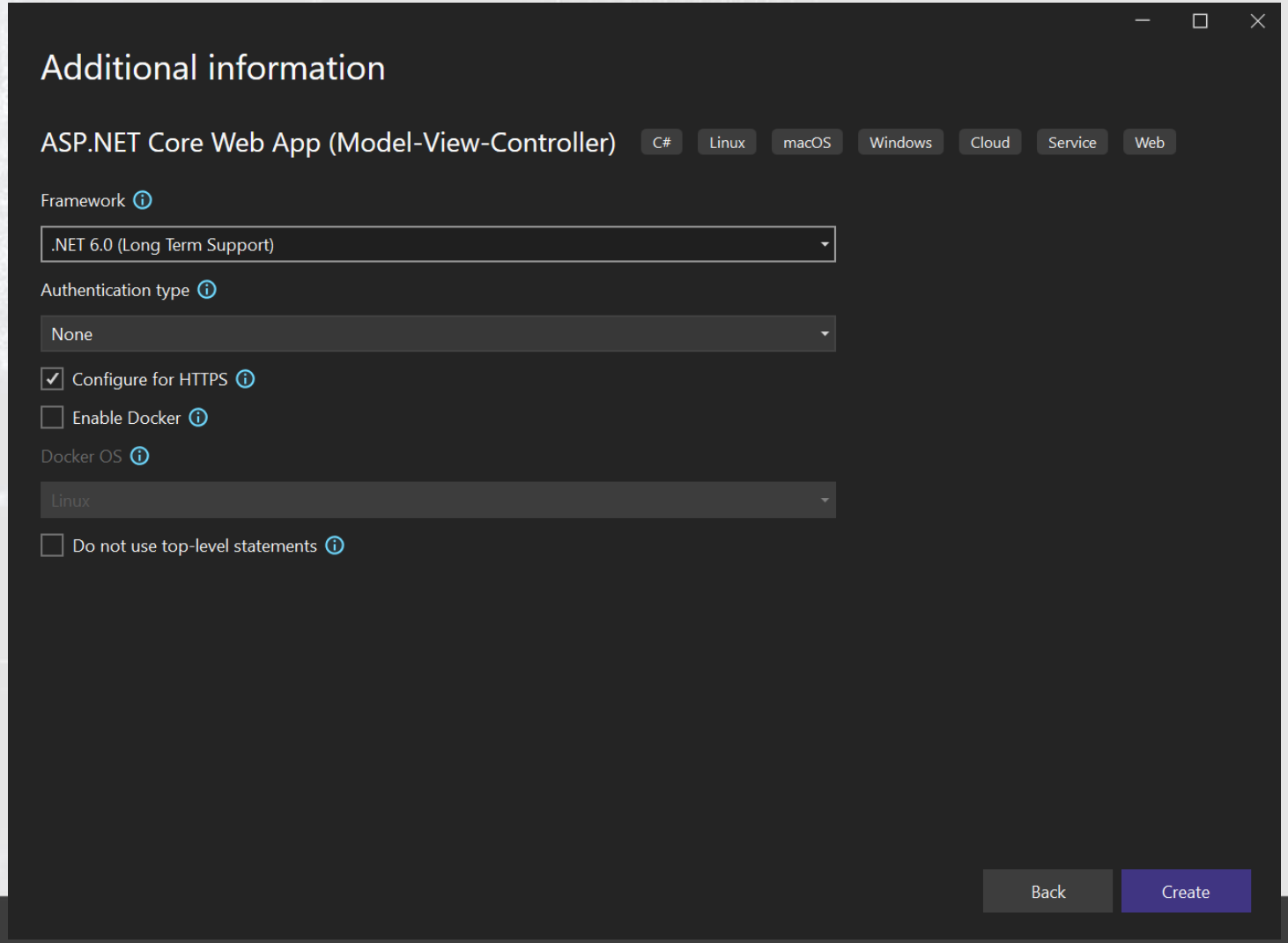
# ASP Club

- Keep all Default settings



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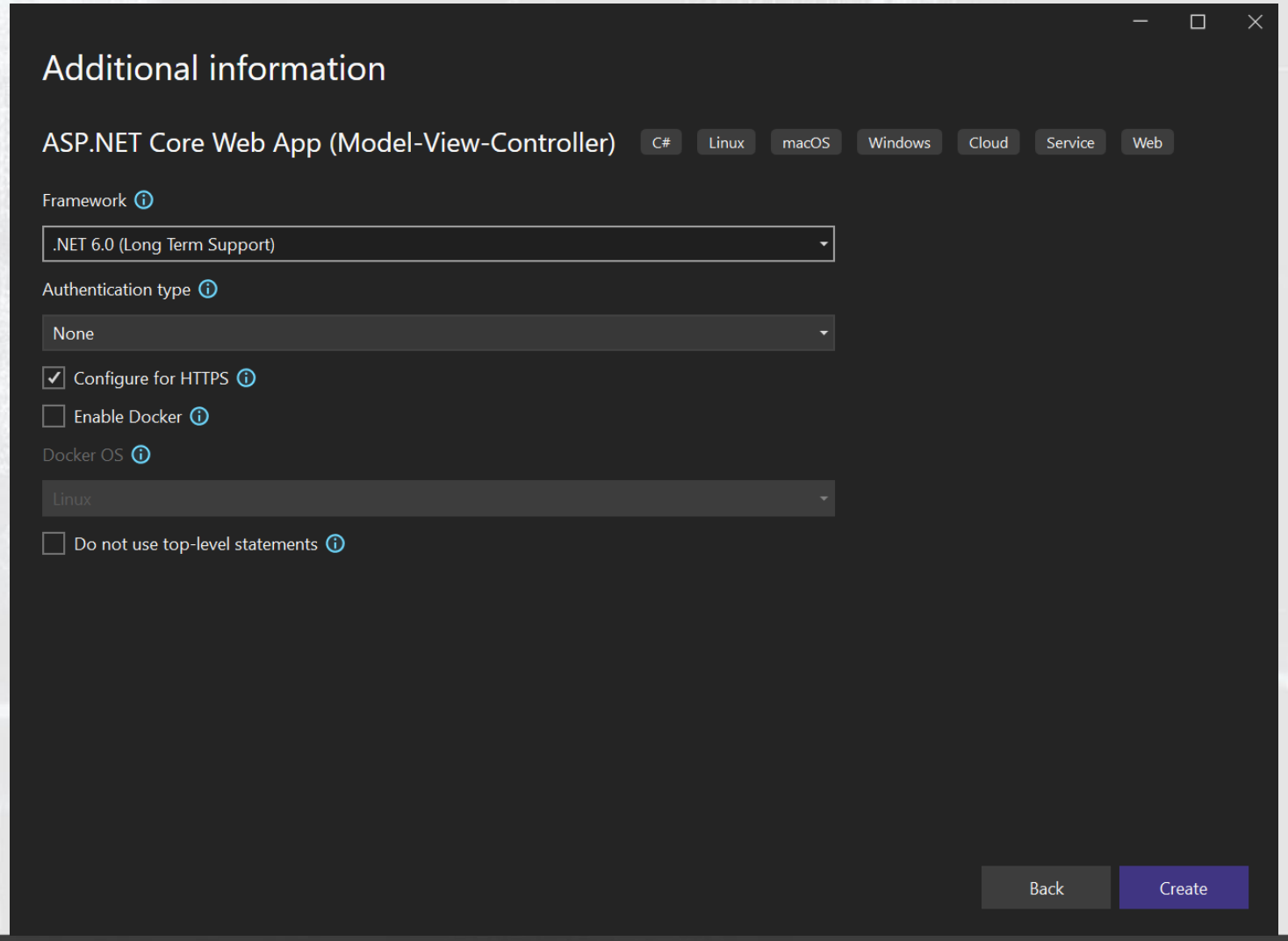
# ASP Club

- Keep all Default settings



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# Adding A model

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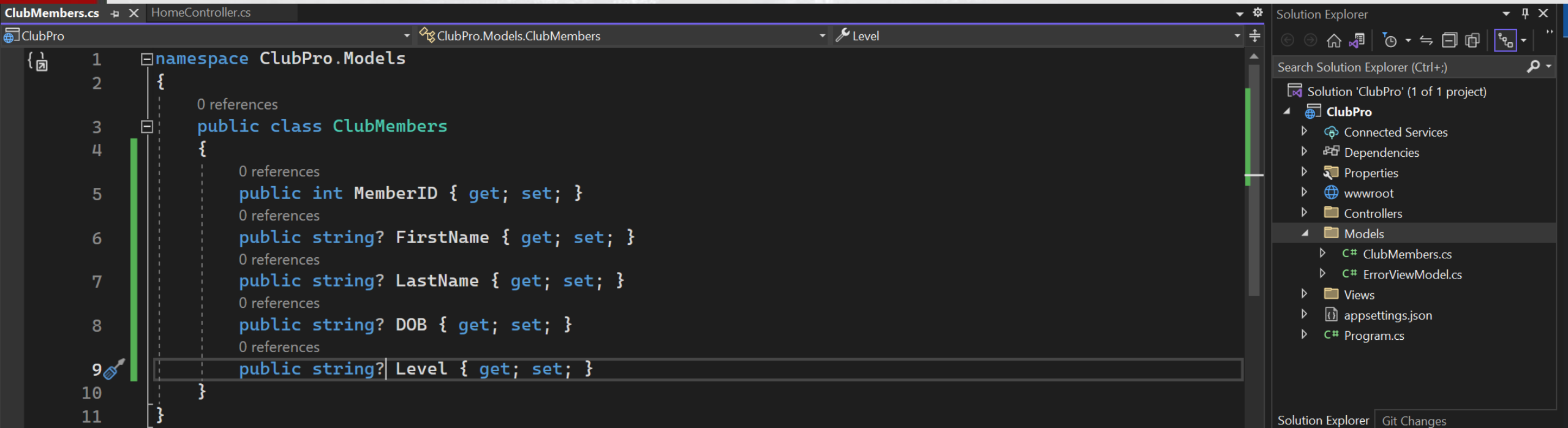
# ASP CLUB

- Make a Class in the Models folder called ClubMembers and add the properties



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# Adding A Controller

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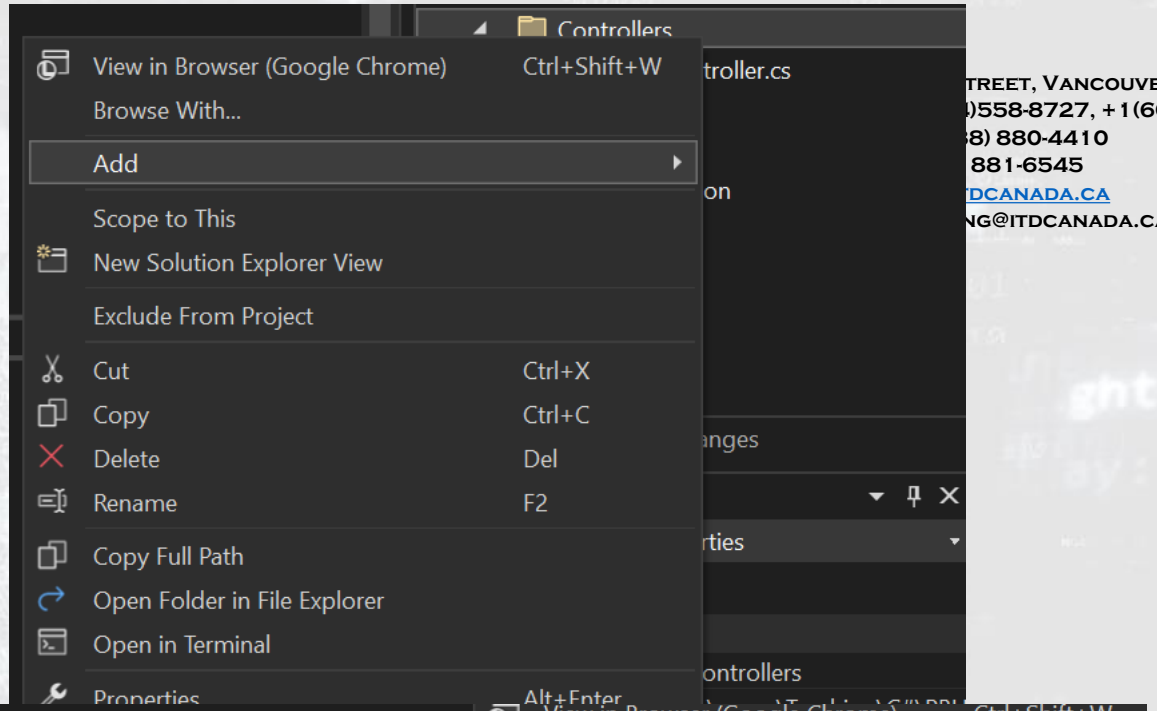
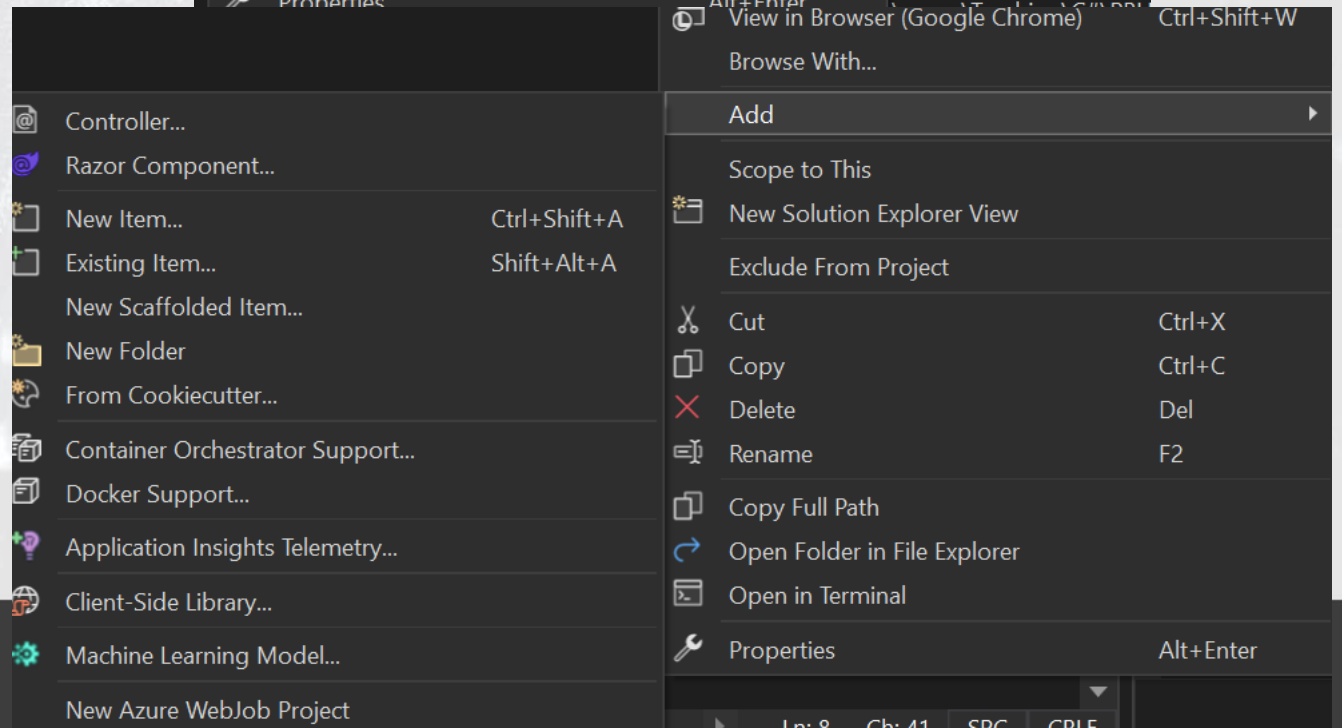
TDCANADA.CA
NG@ITDCANADA.CA

# ASP CLUB

- Right Click on controllers folder, add, Controller…



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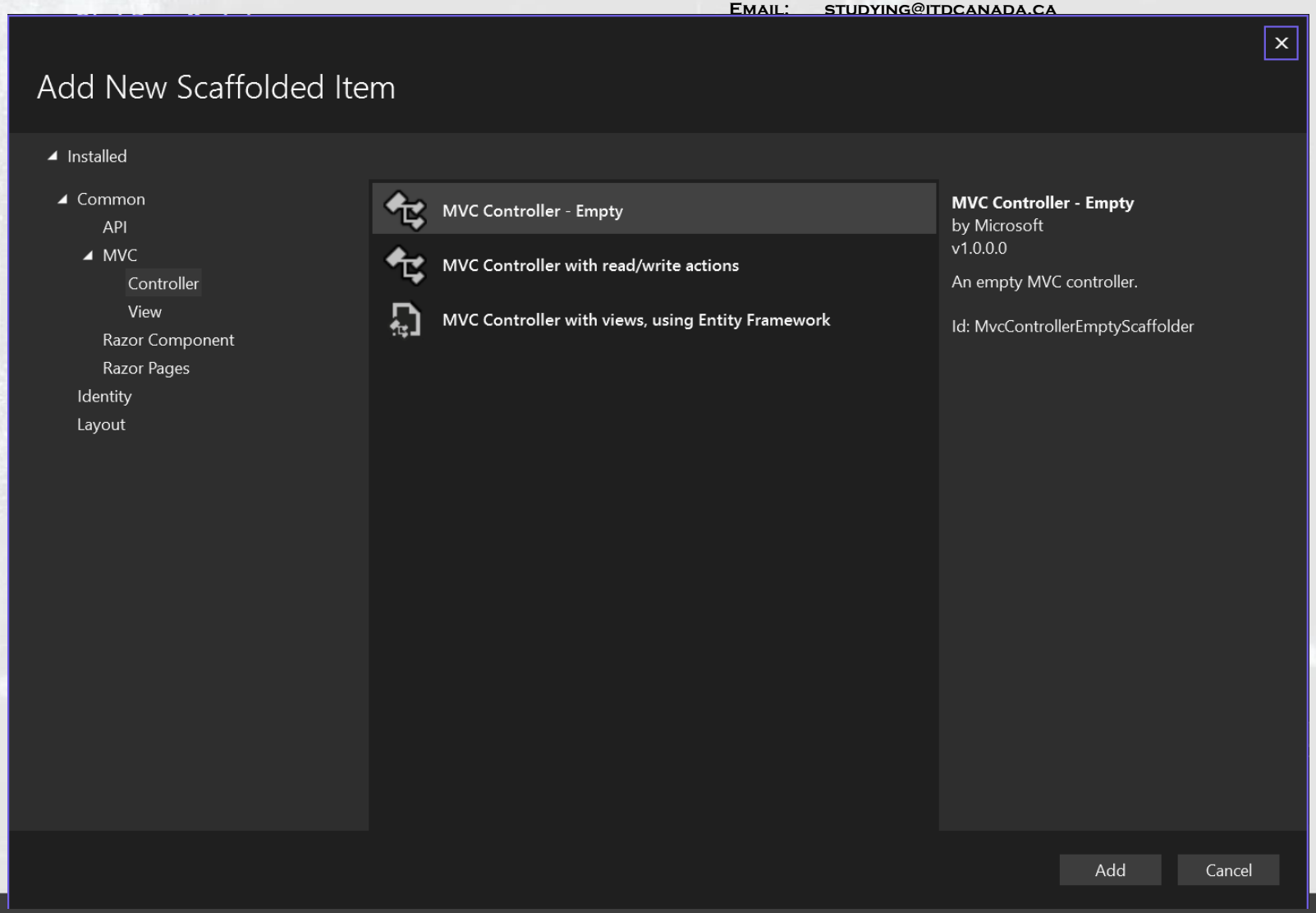
# ASP Club

- Choose MVC Controller - Empty



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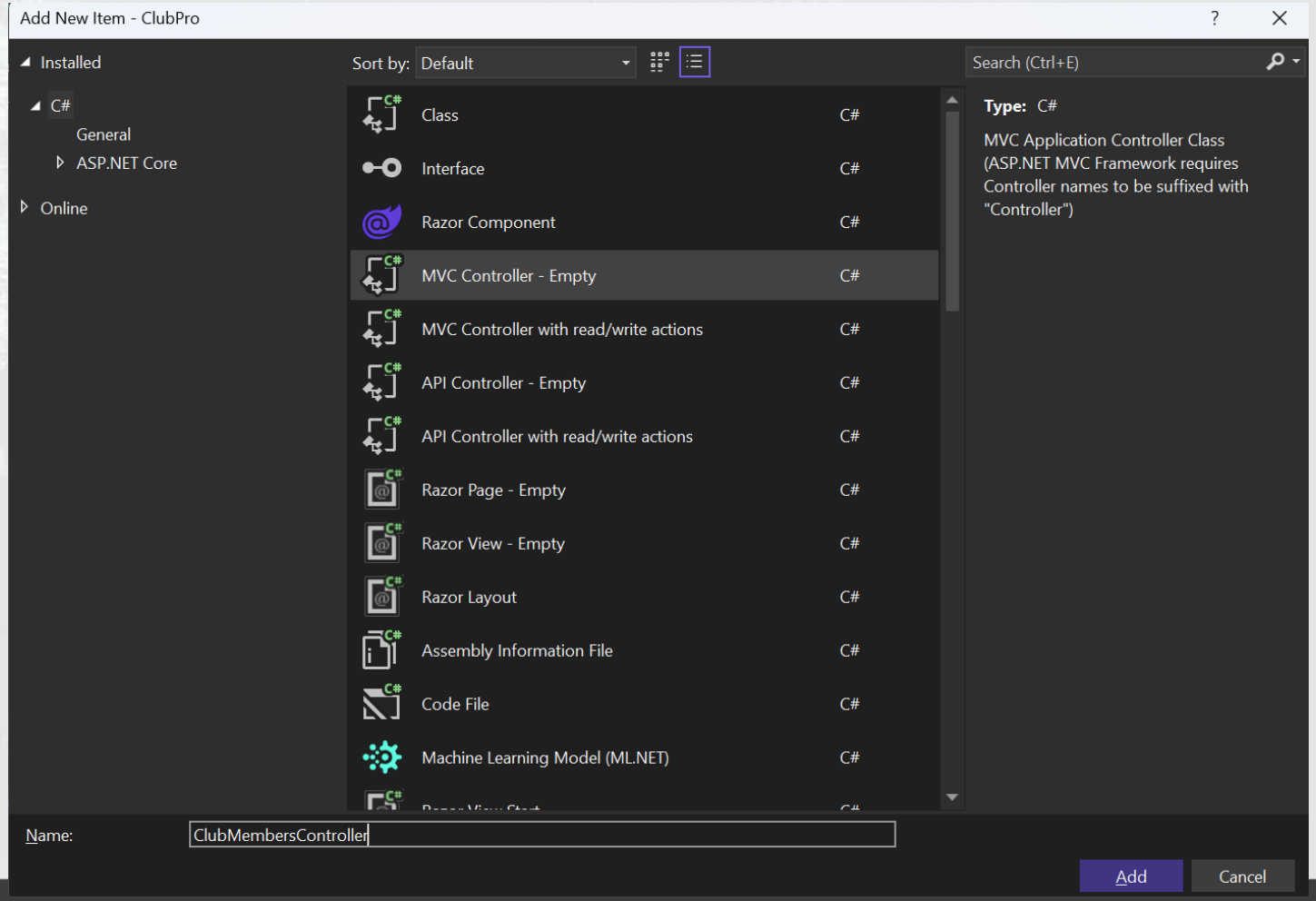
# ASP CLUB

- Change the name to ClubMembersController



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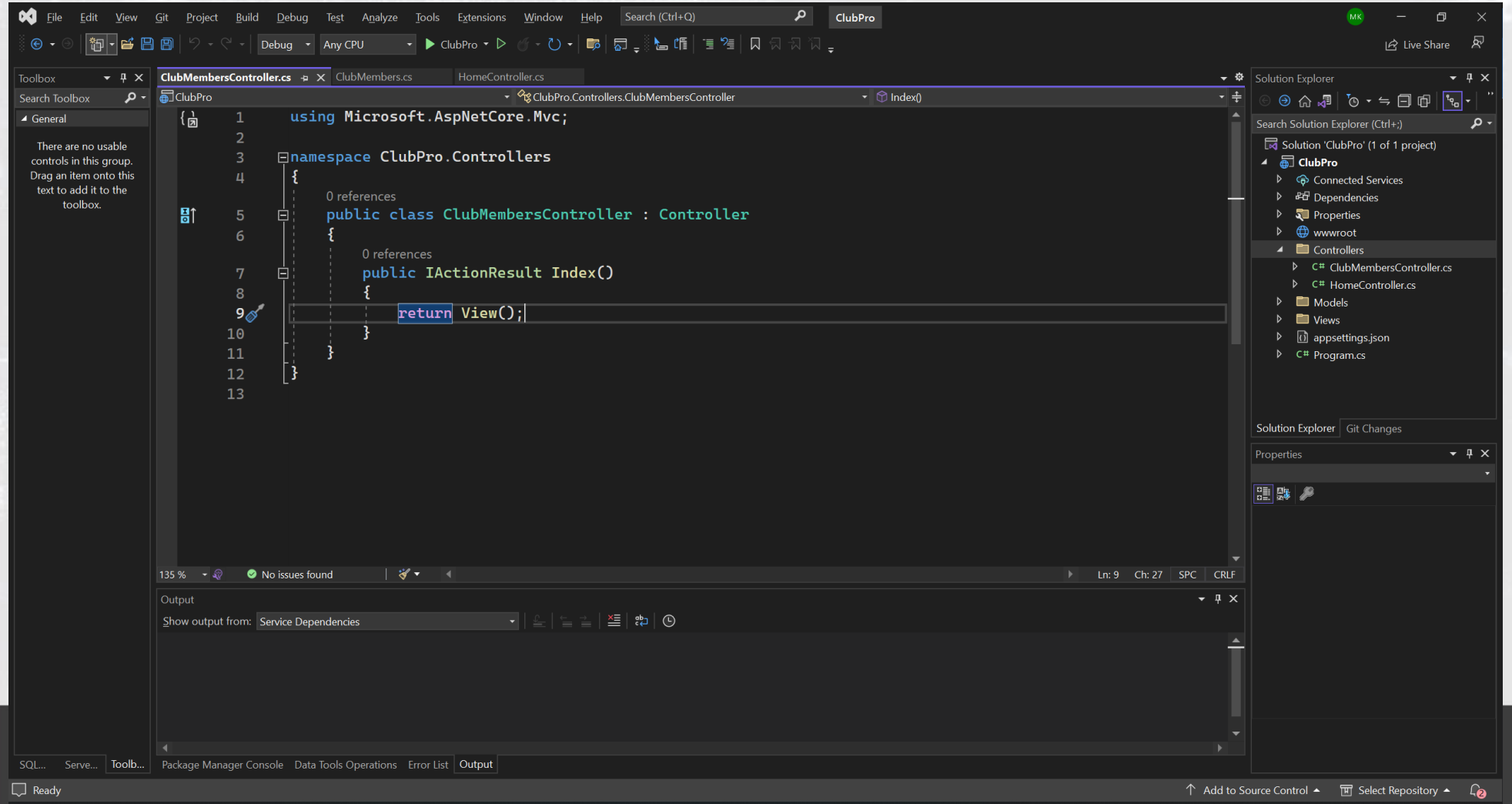
# ASP CLUB



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# Adding Views

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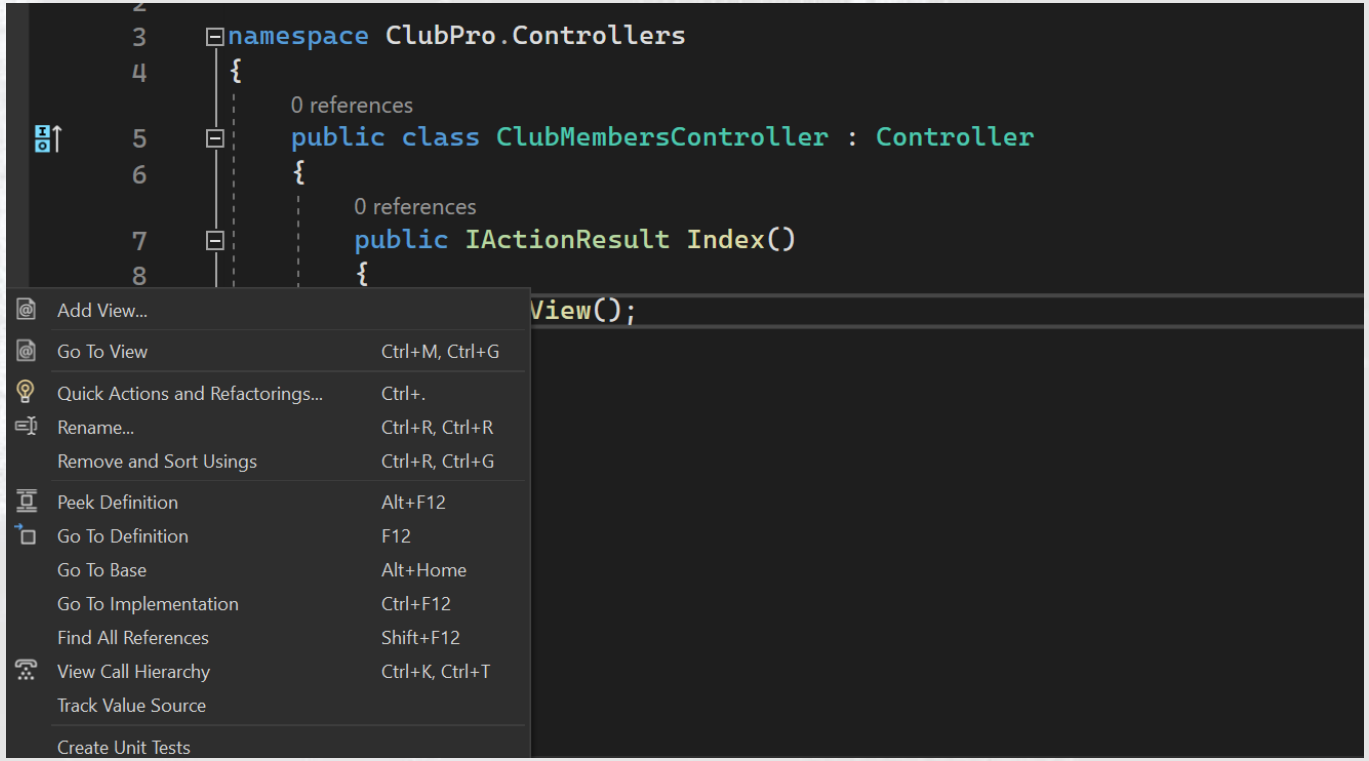
# ASP Club

- Right Click on the Index()
- Select Add View…



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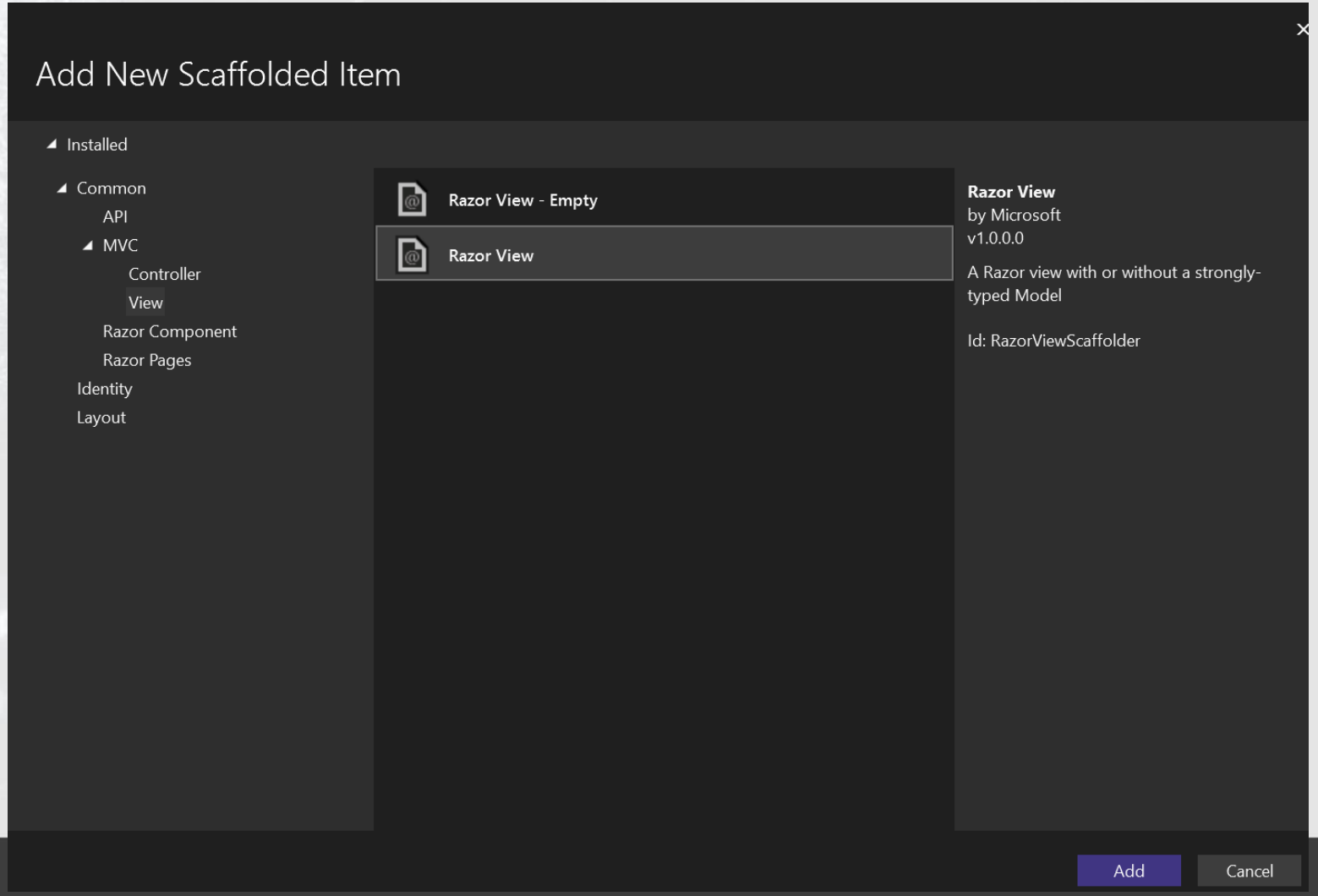
# ASP Club

- Choose option two:
- Razor View



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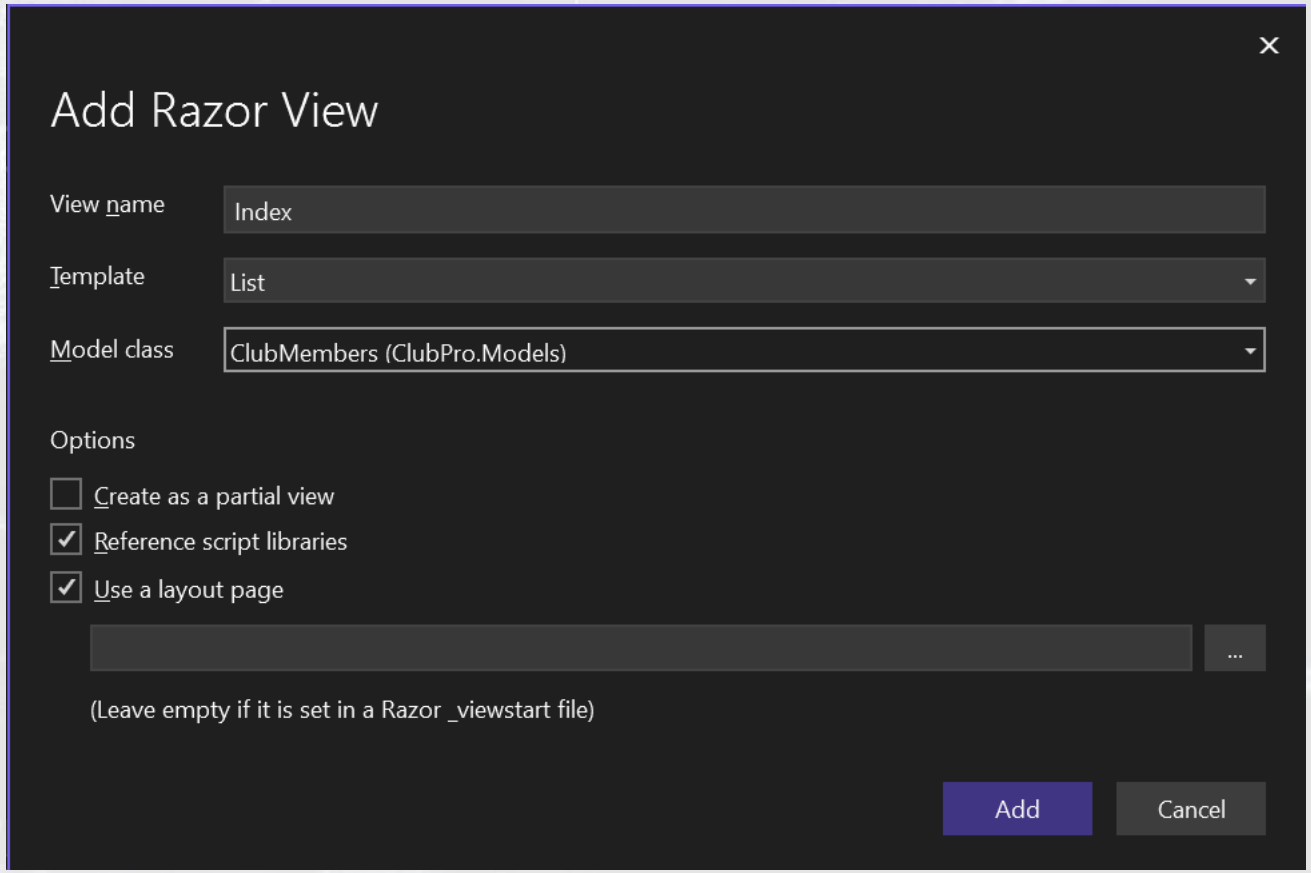
# ASP Club

- Fill in the same as in the image
- Press Add
- A new Index view will be added into the view folder



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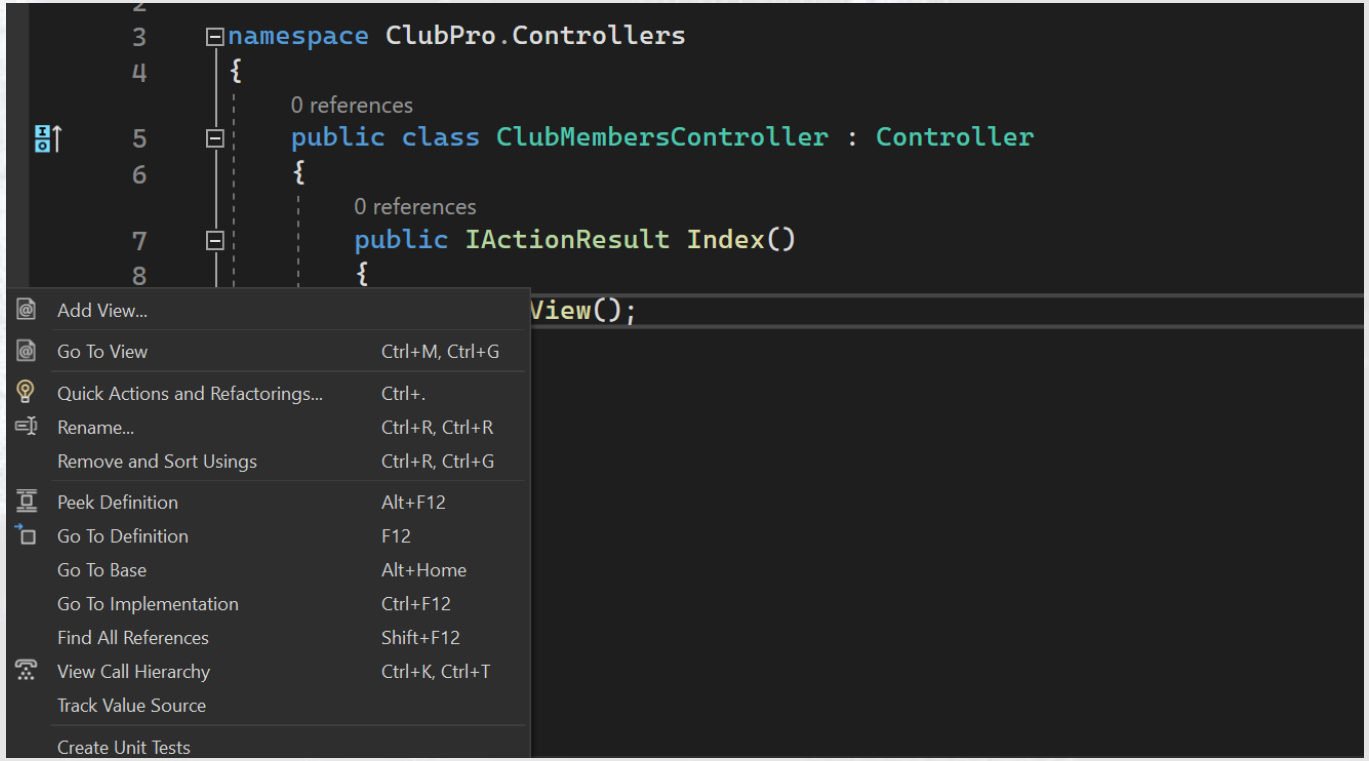

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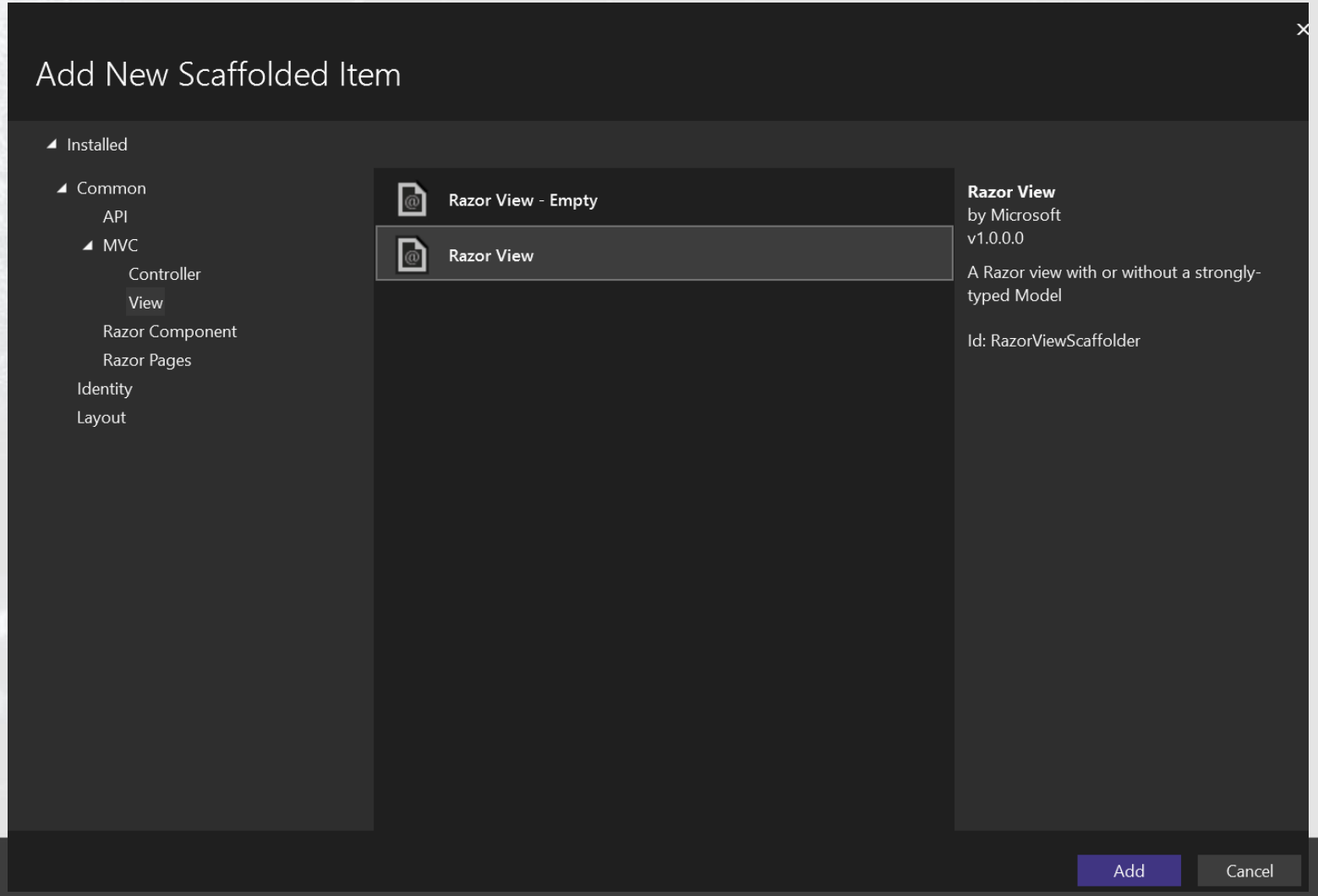

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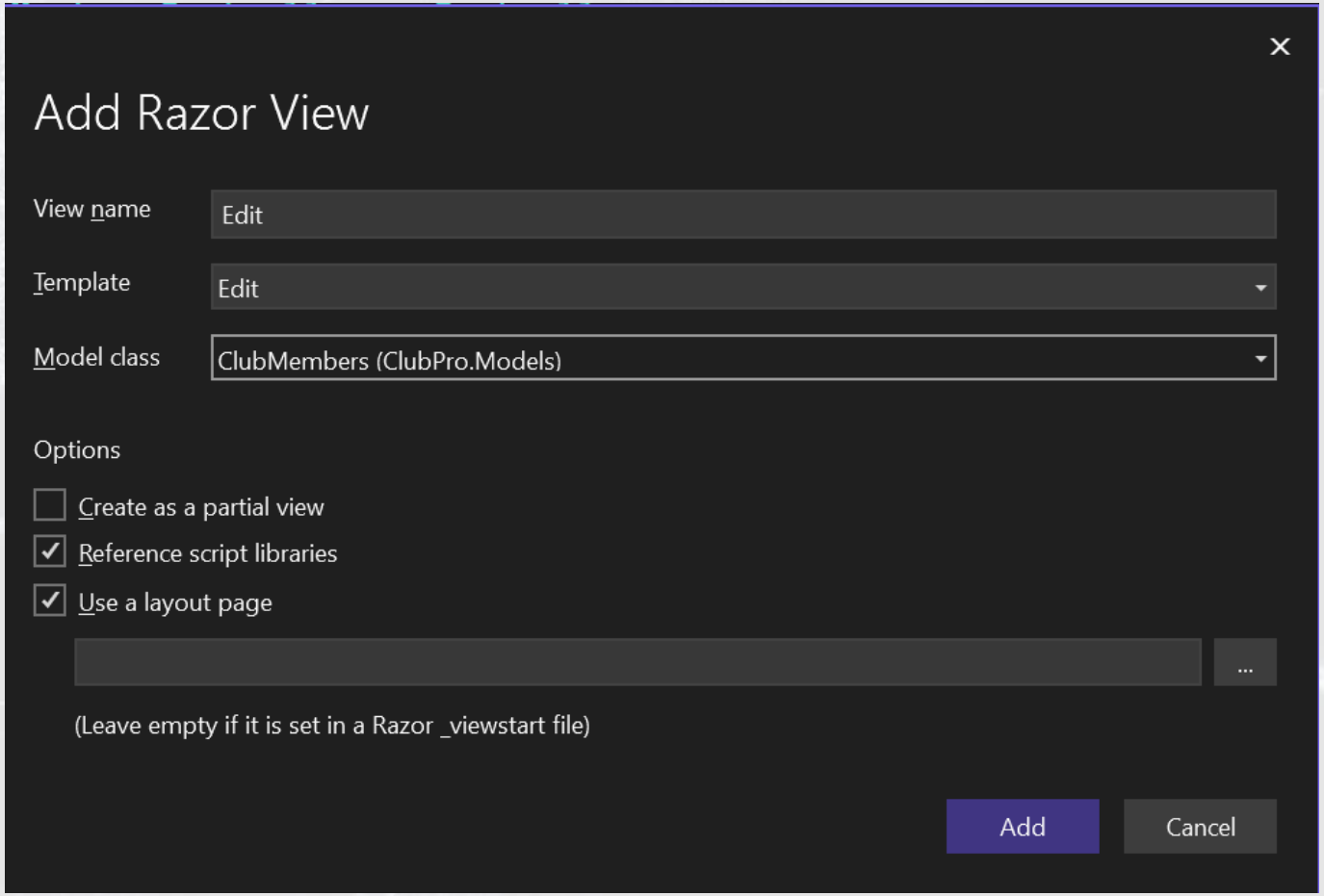
# ASP Club

- Fill in the same as in the image
- Press Add
- A new Edit view will be added into the view folder



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# ASP Club

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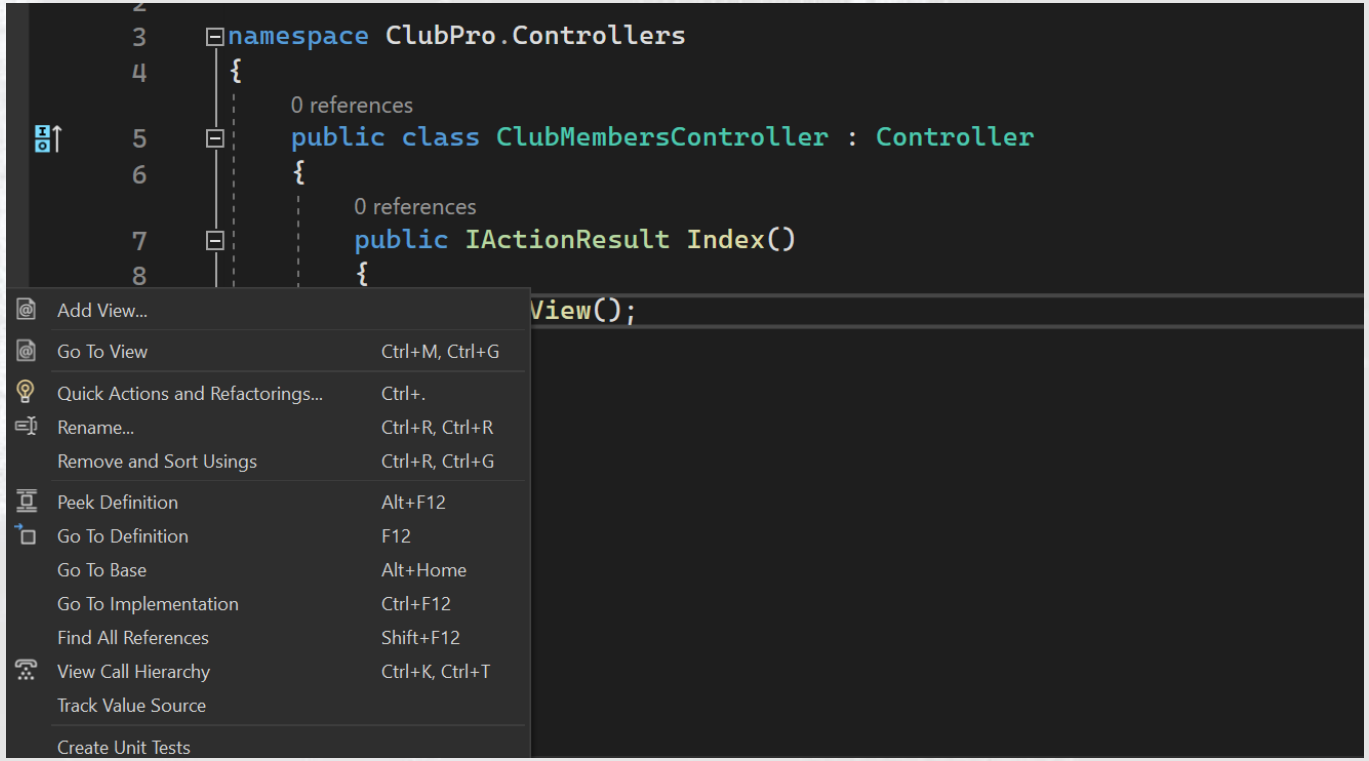
- Select Add View…



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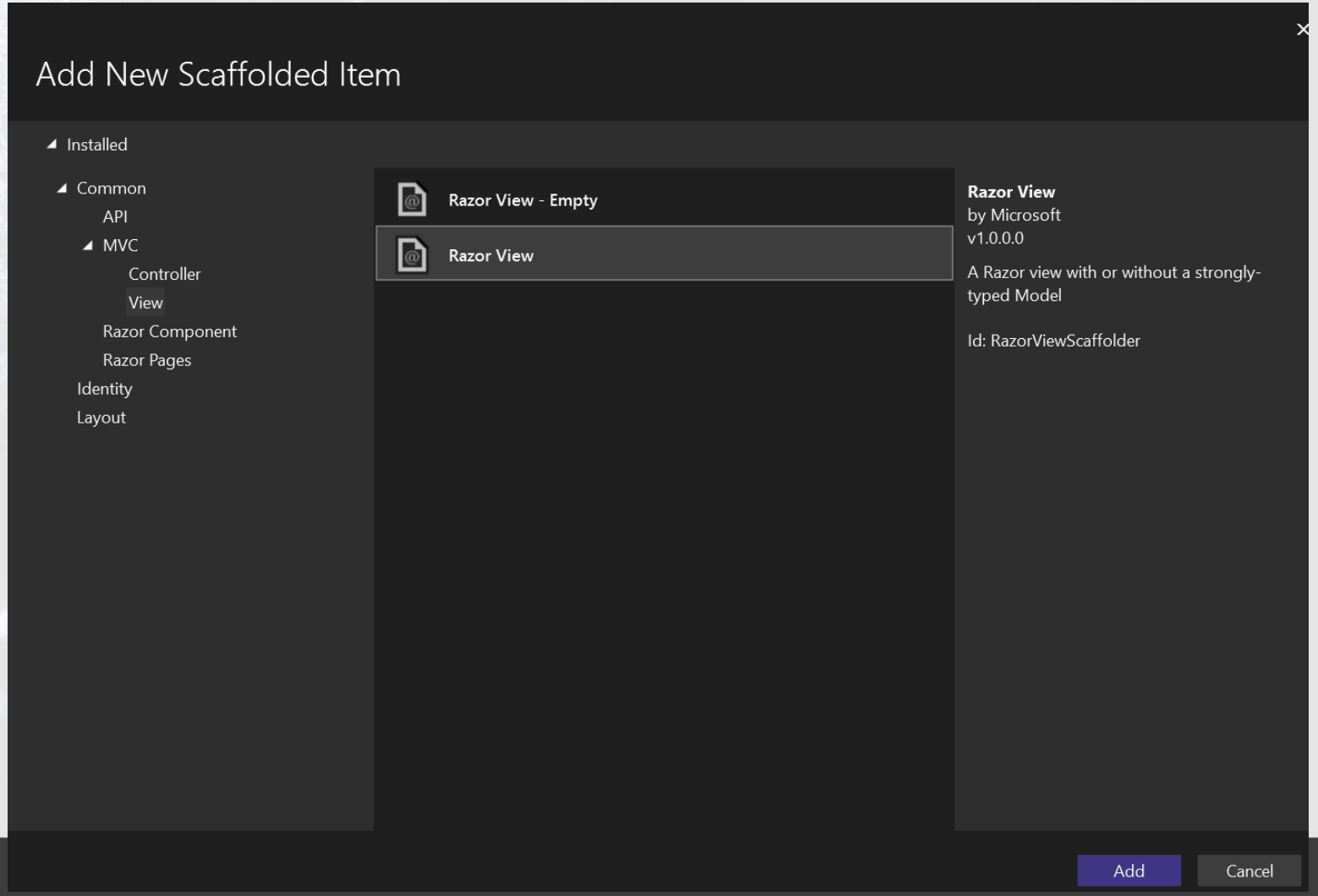

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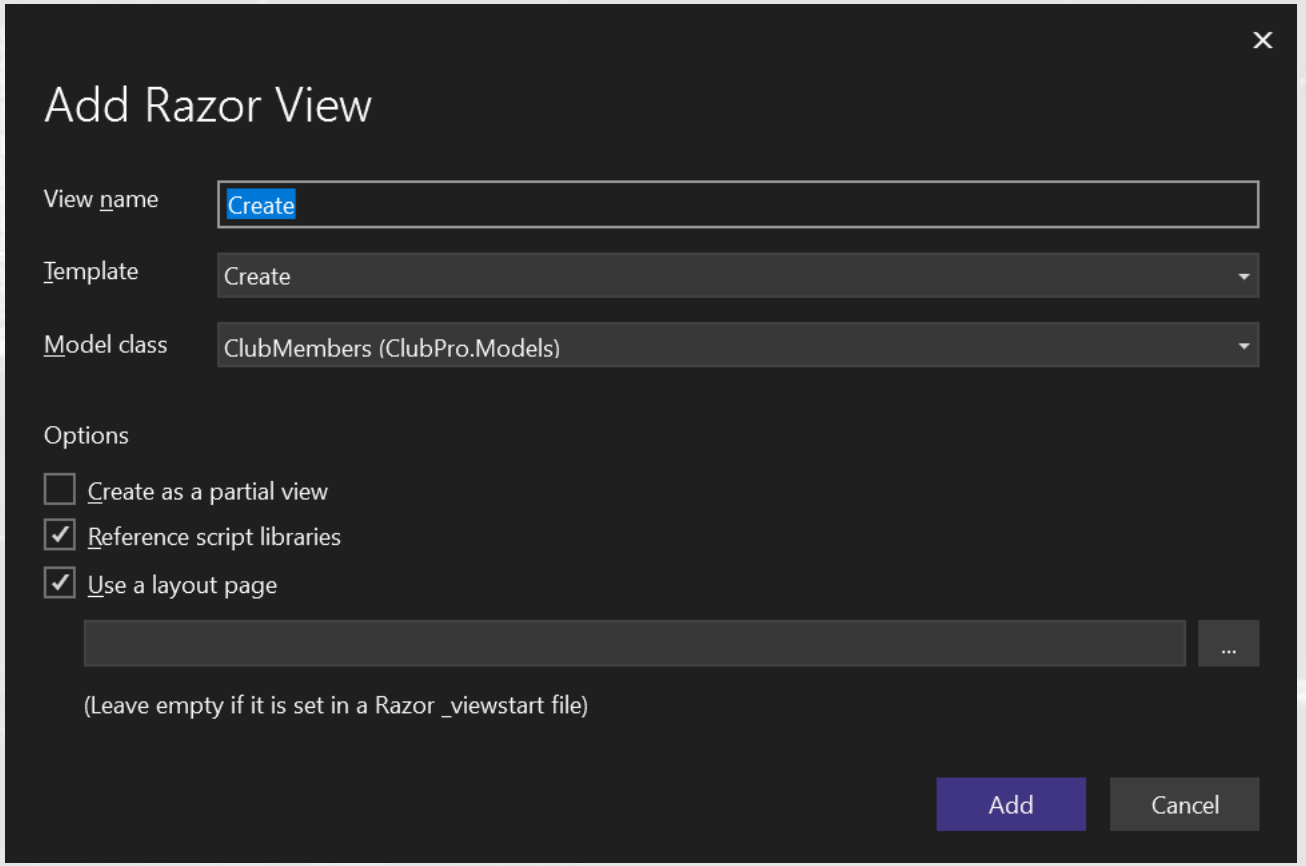
# ASP Club

- Fill in the same as in the image
- Press Add
- A new Create view will be added into the view folder



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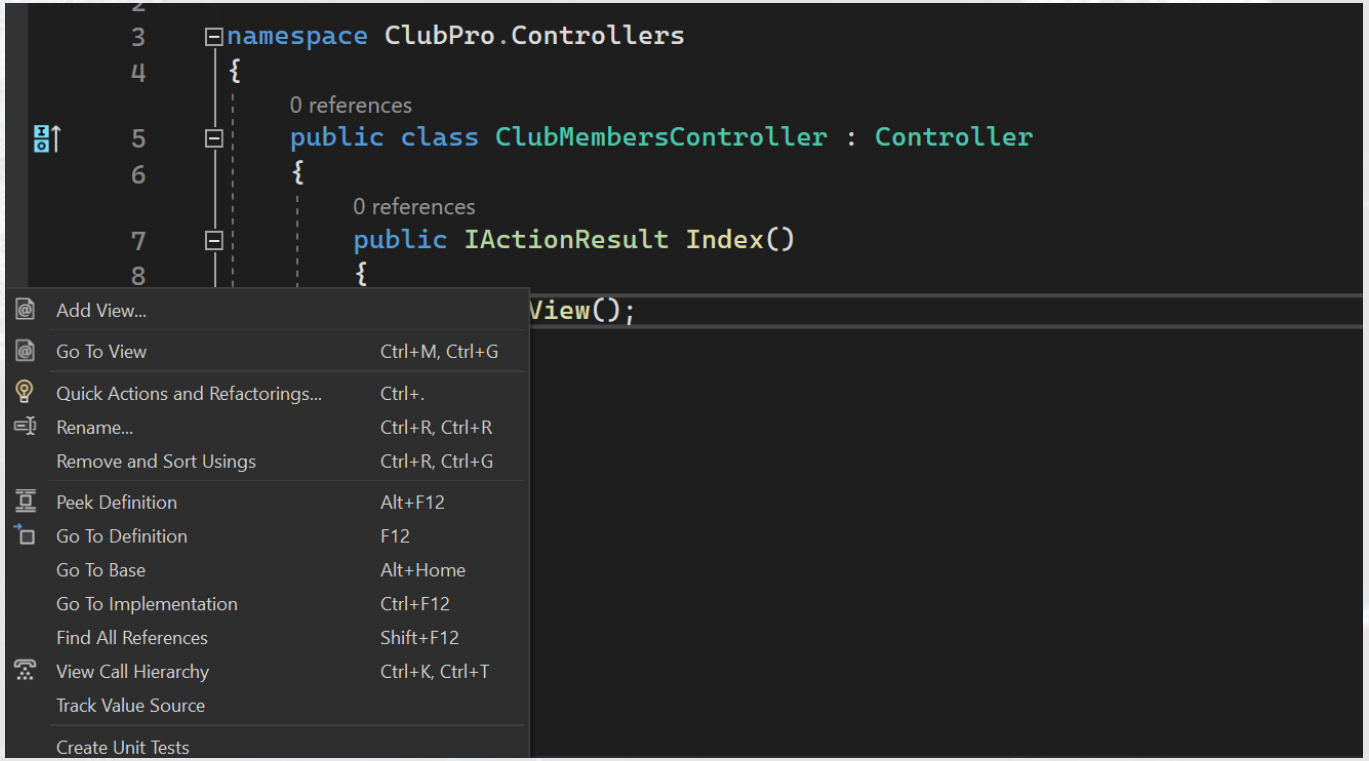

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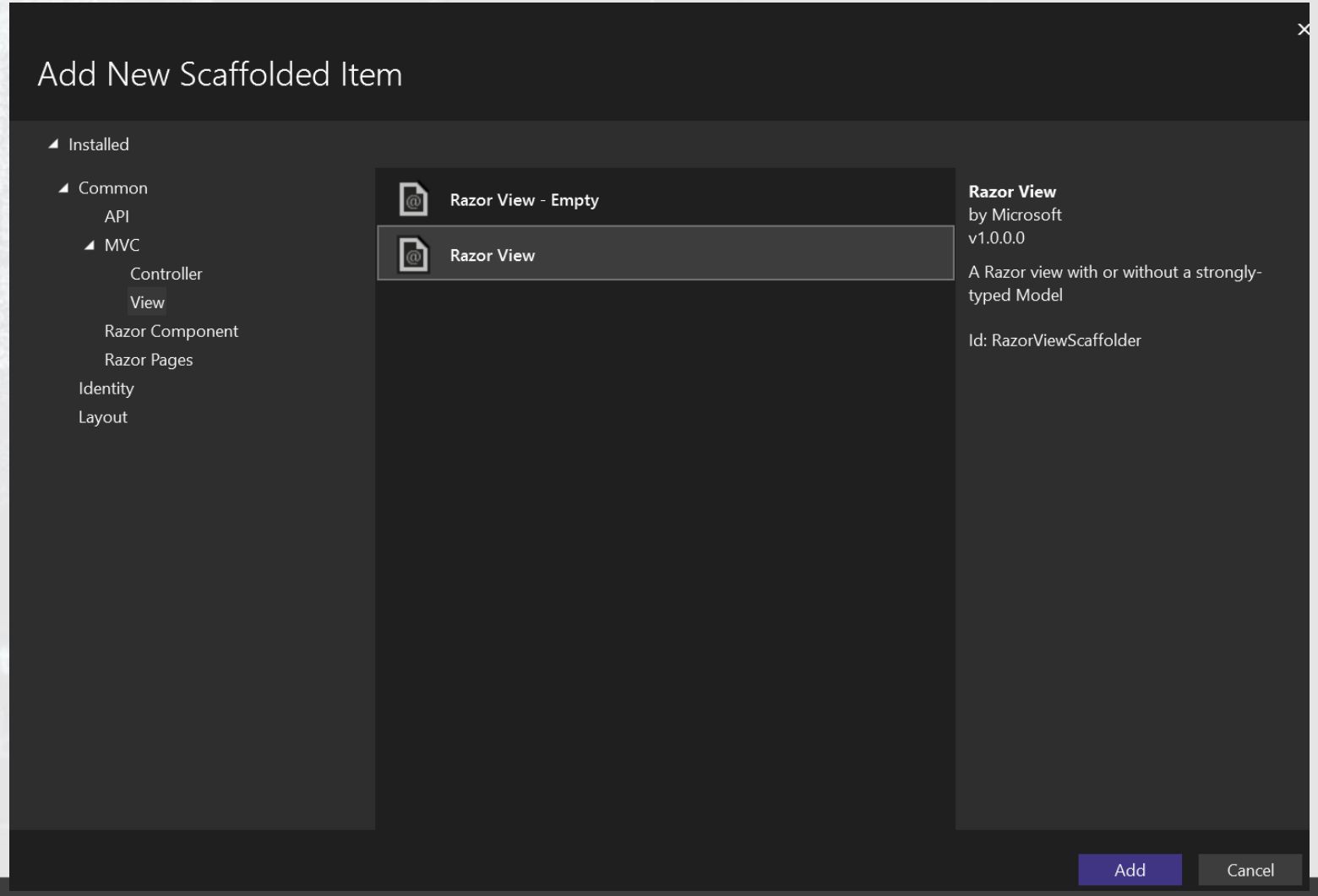

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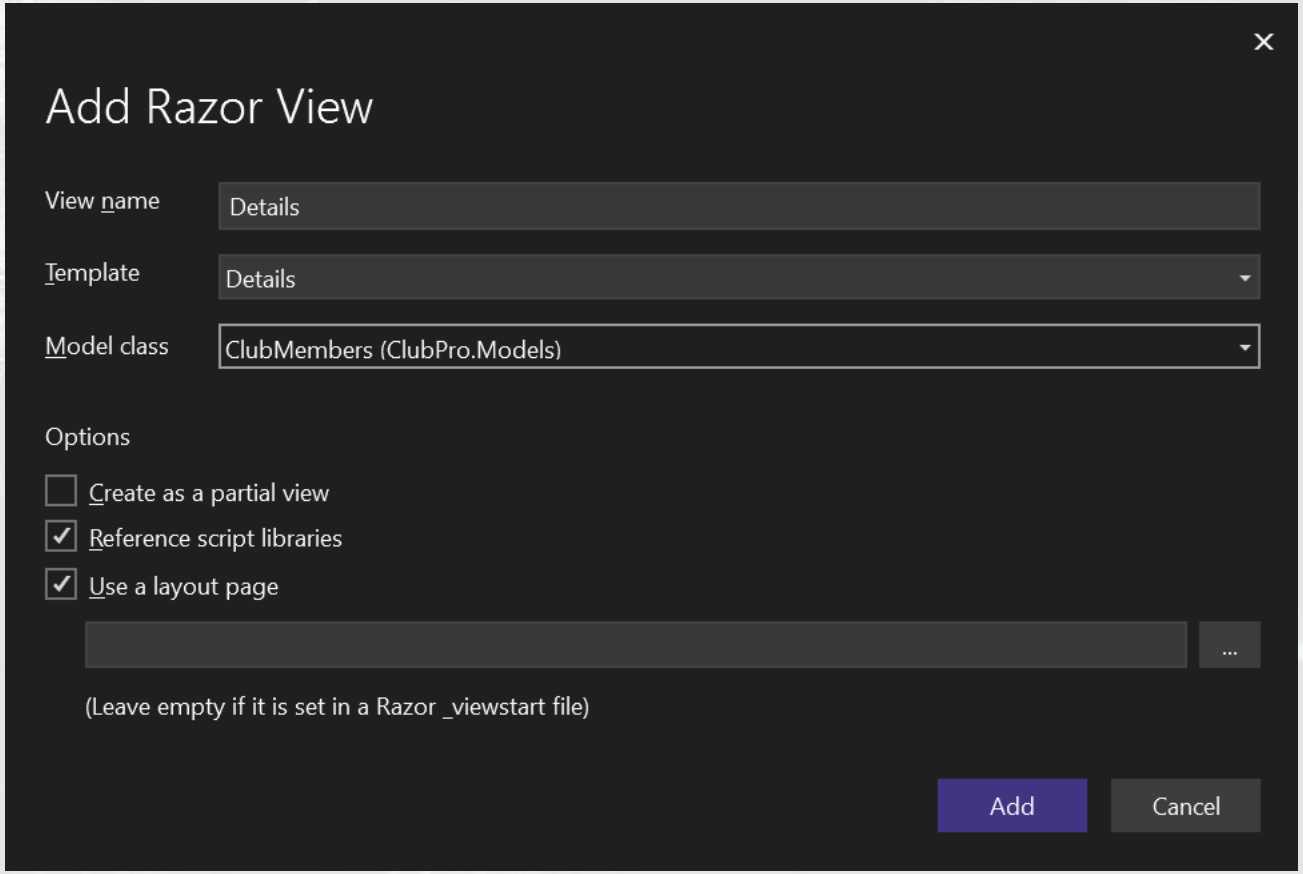
# ASP Club

- Fill in the same as in the image
- Press Add
- A new Details view will be added into the view folder



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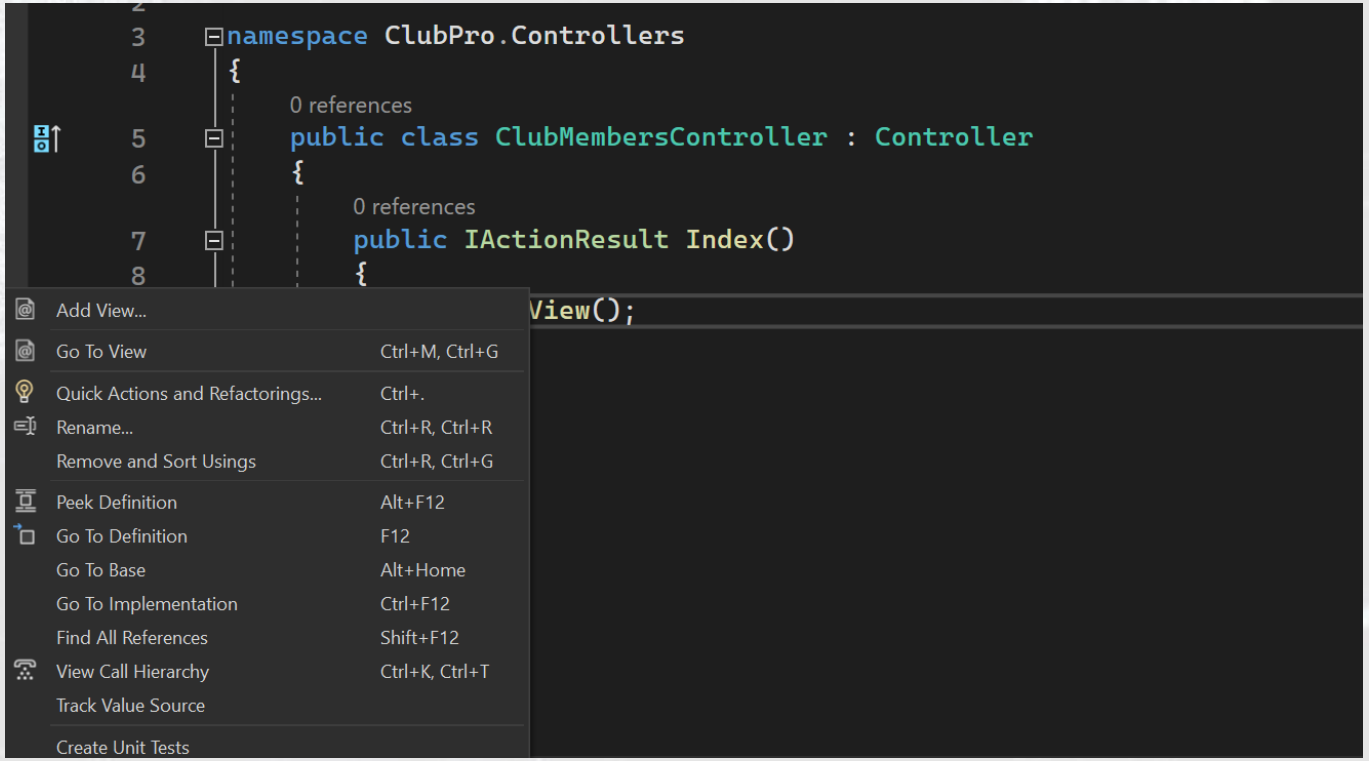

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# ASP Club

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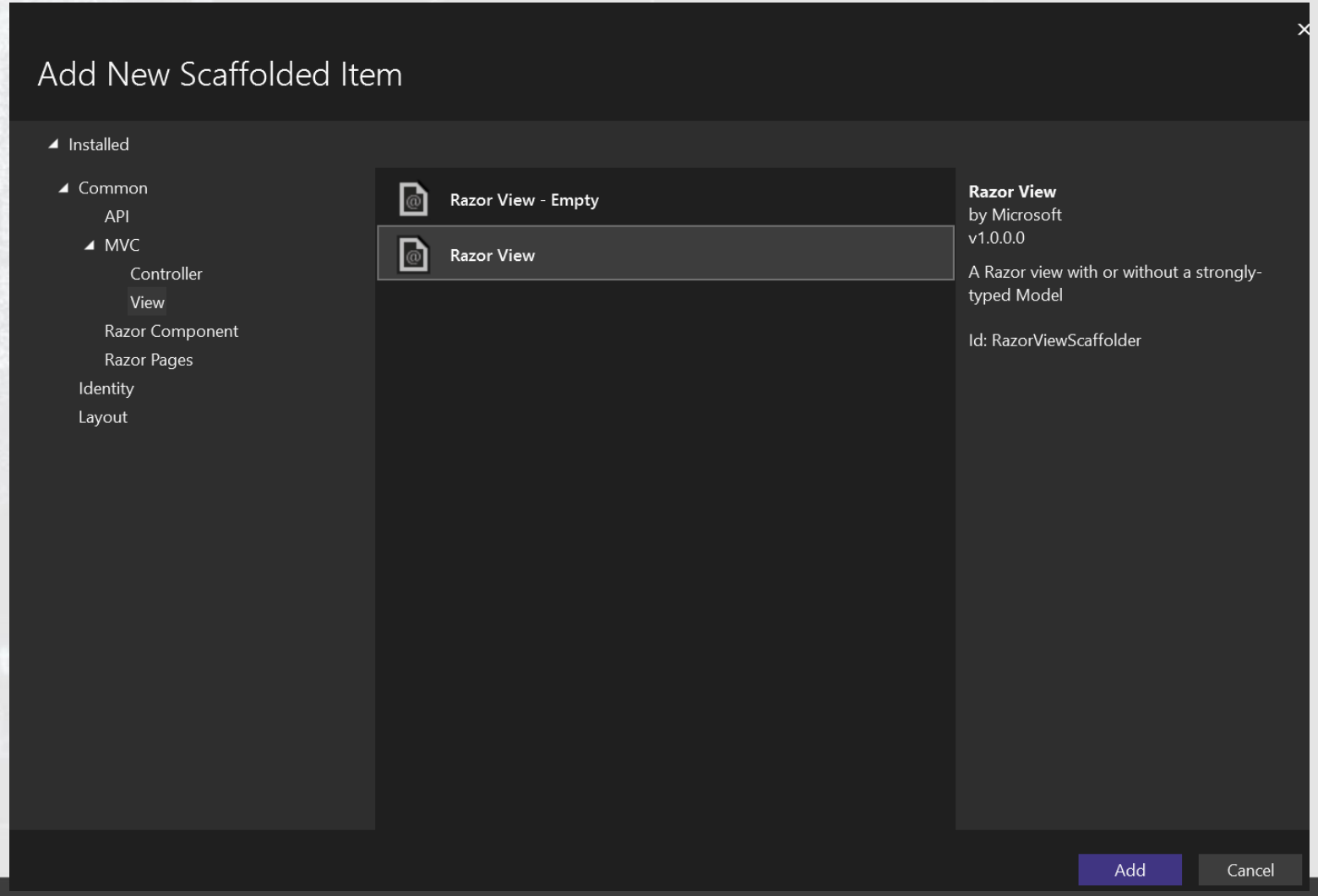
- Razor View



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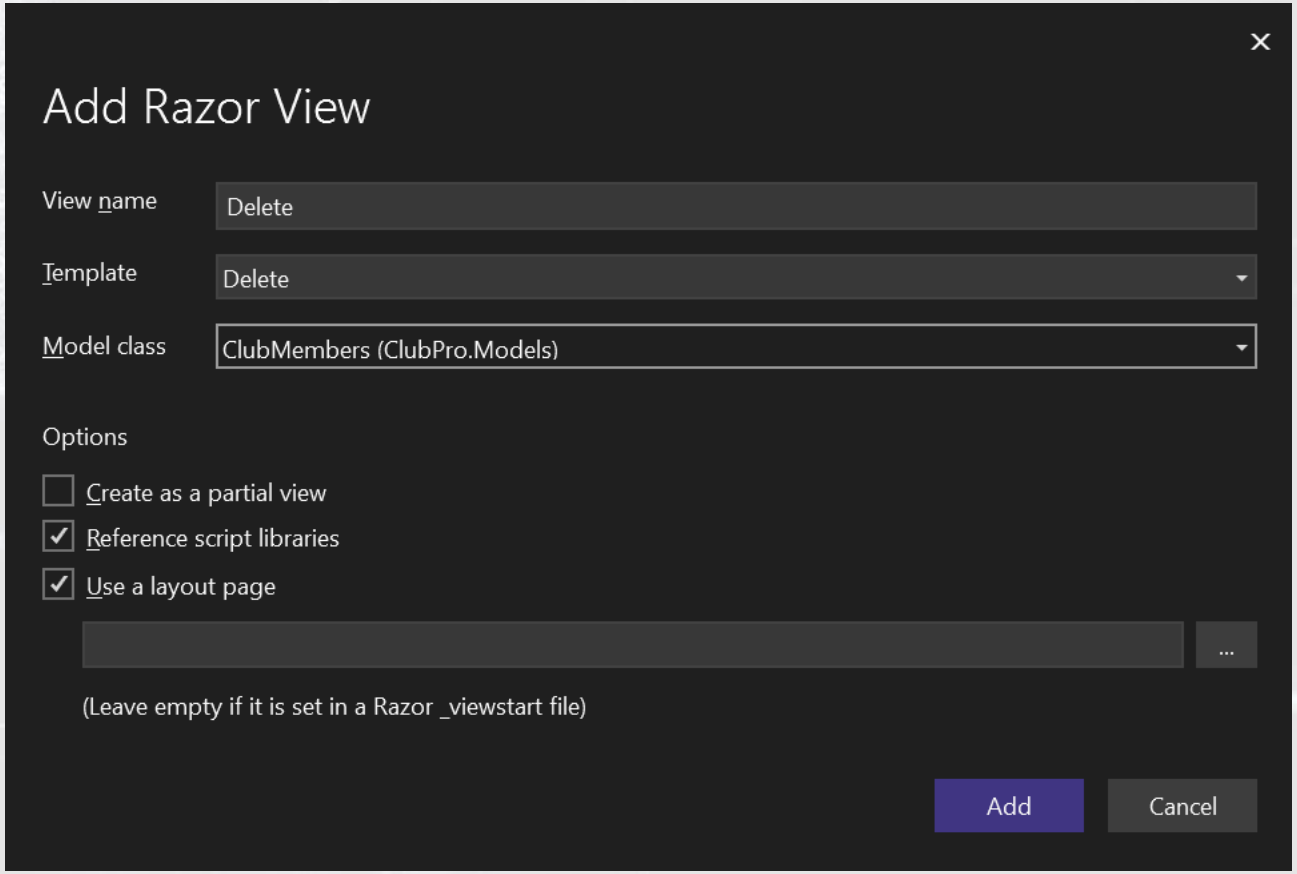
# ASP Club

- Fill in the same as in the image
- Press Add
- A new Delete view will be added into the view folder



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# Changing the controller Index

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# ASP Club

- In Program.cs
- On line 25 change “Home” to the name of your controller, but remove the word controller
- ClubMembersController
- ClubMembers

```
16      app.UseHttpsRedirection();
17      app.UseStaticFiles();
18
19      app.UseRouting();
20
21      app.UseAuthorization();
22
23      app.MapControllerRoute(
24          name: "default",
25          pattern: "{controller=Home}/{action=Index}/{id?}");
26
27      app.Run();
```

```
17      app.UseStaticFiles();
18
19      app.UseRouting();
20
21      app.UseAuthorization();
22
23      app.MapControllerRoute(
24          name: "default",
25          pattern: "{controller=ClubMembers}/{action=Index}/{id?}");
26
27      app.Run();
28
```

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# Adding the Database

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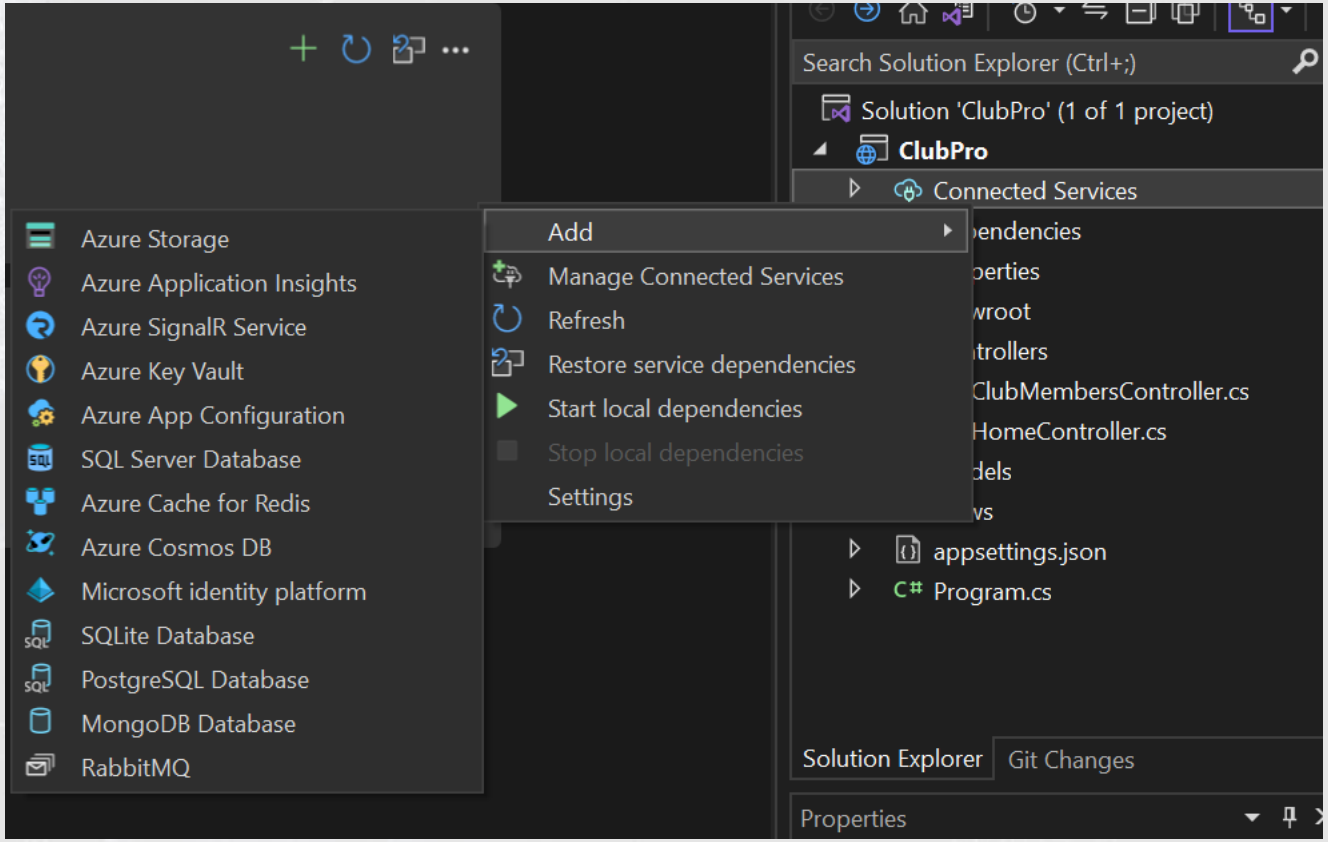
# ASP Club

- Right click on Connected Services
- Add
- SQL Server Database



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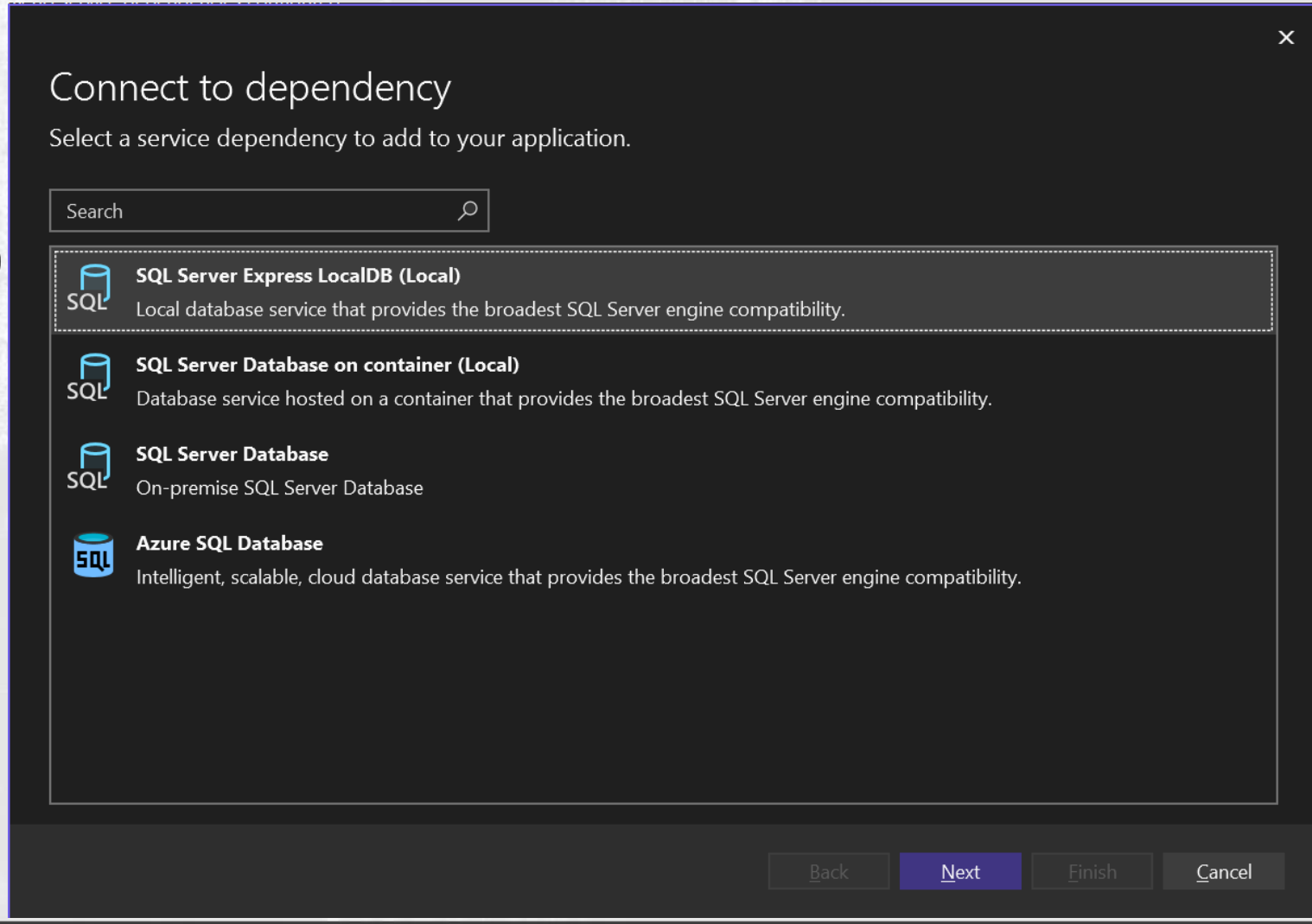
# ASP CLUB

- Choose SQL Server Express LocalDB (Local)



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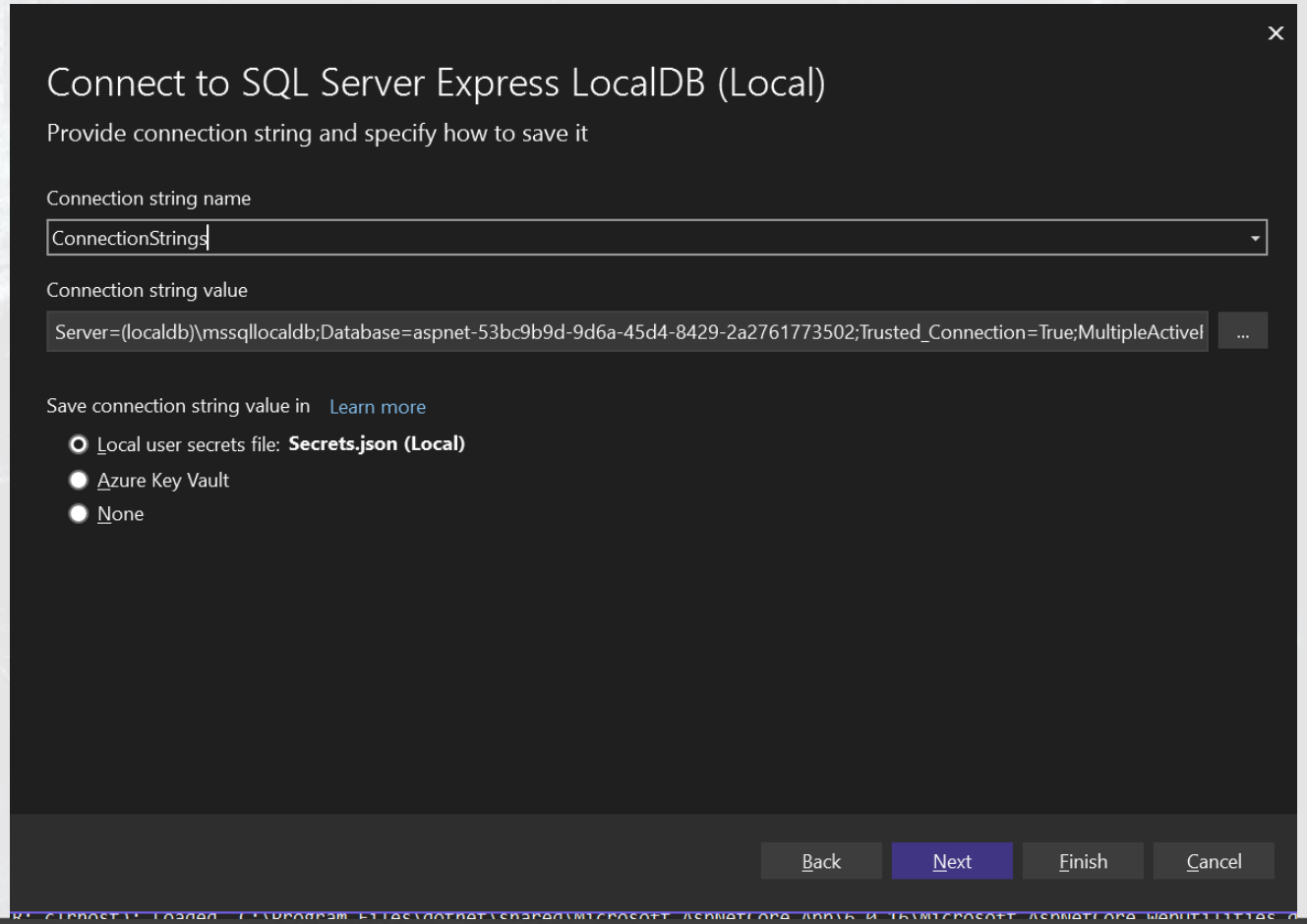
# ASP CLUB



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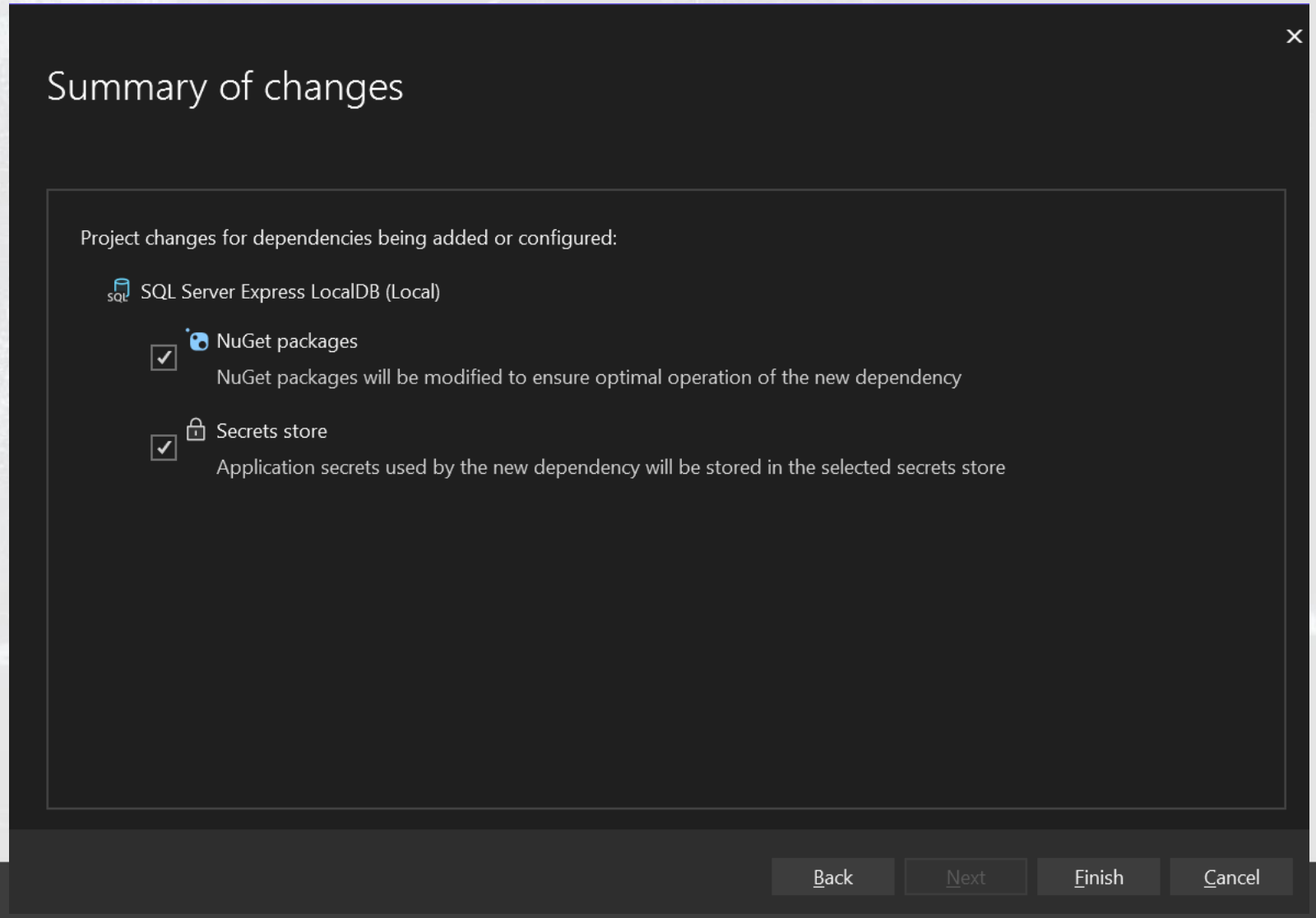
# ASP Club

- Finish



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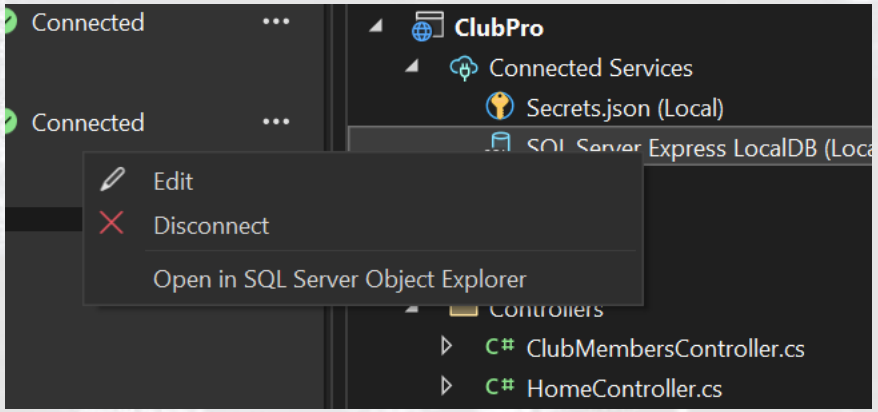
# ASP Club

- Right click on SQL Server Express LocalDB
- Open in SQL Server Object Explorer



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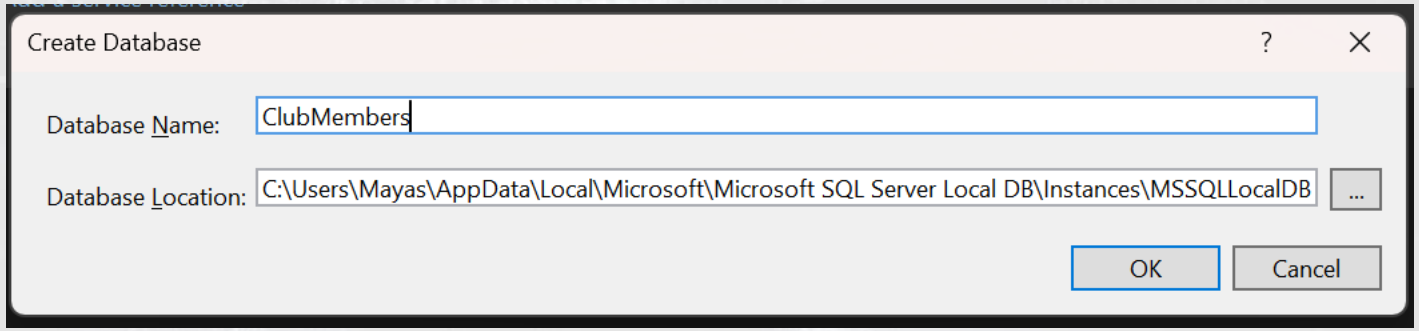
# ASP Club



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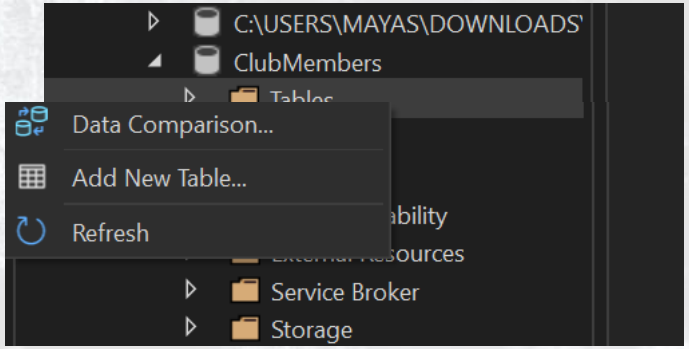
# ASP Club

- Right click on Tables
- Add New Tables…



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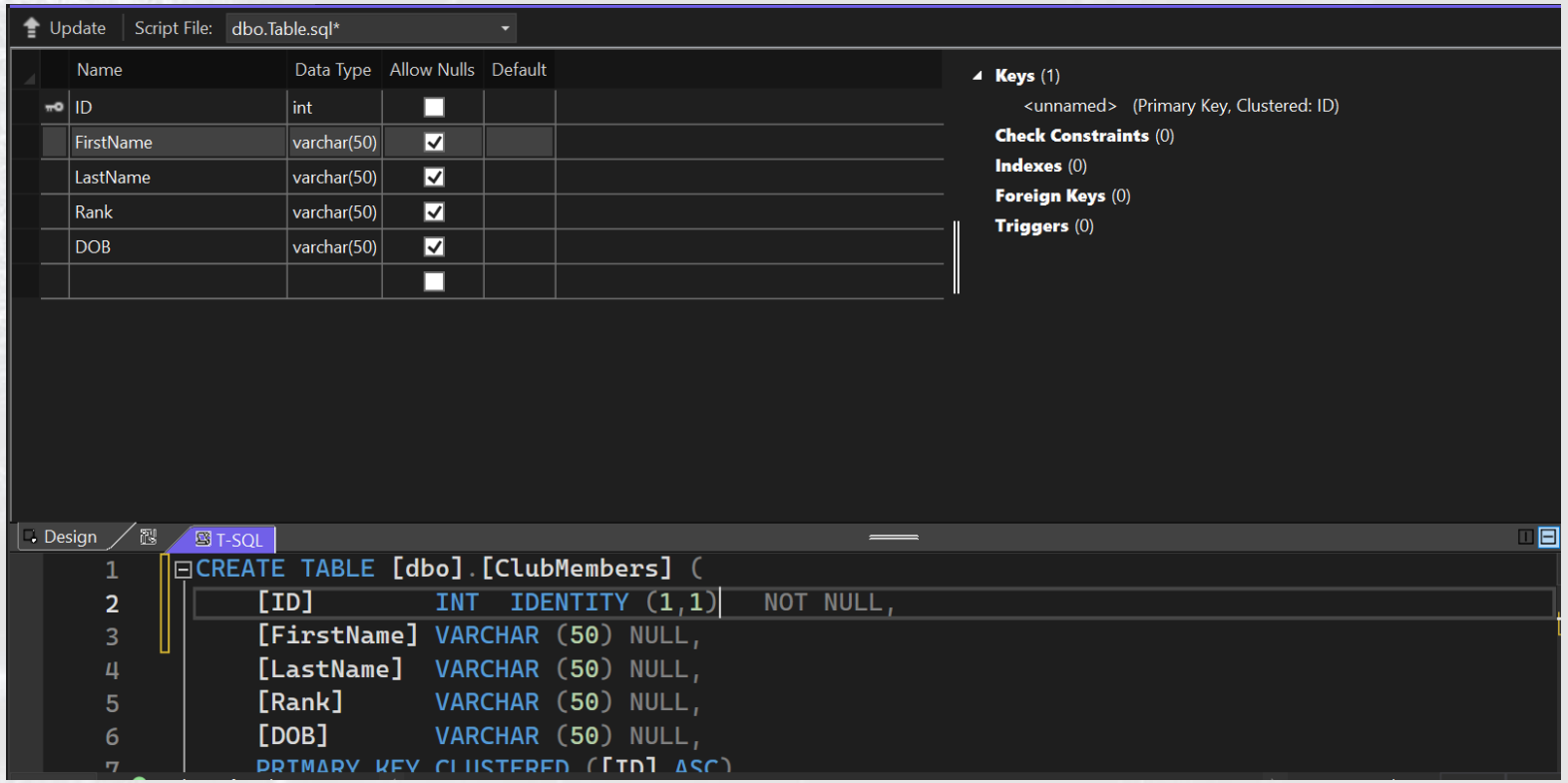
# ASP Club

- Create the table



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# Get the connection string

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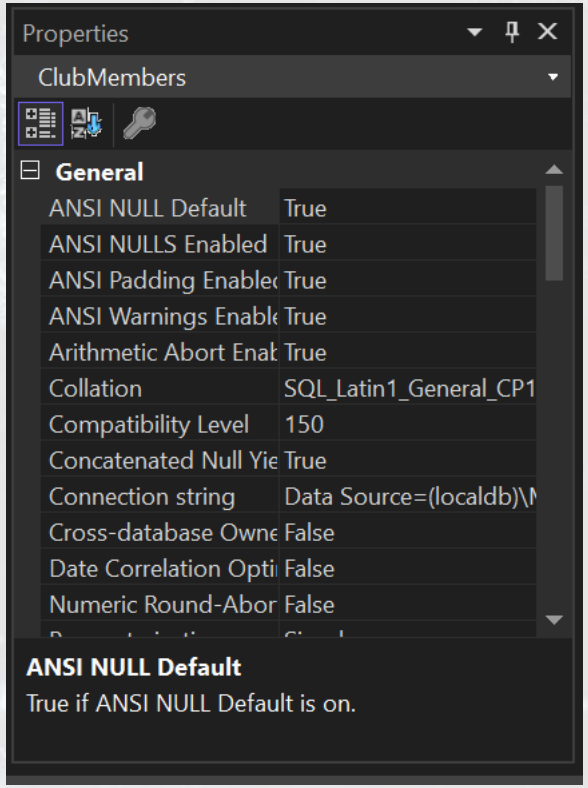
# ASP Club

- Get the ClubMembrs DB connection string



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# Getting the information and adding it to the view

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# ASP Club

- Read this whole section before you take action

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# ASP Club

- Make the index return the list from GetInfoFromDB Function

```
0 references
public IActionResult Index()
{
    return View(GetInfoFromDB());
}
```

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# ASP Club

```
public List<ClubMembers> GetInfoFromDB()
{
/*1. Create an empty list called "listObject" to hold the results of the database query.
 2. Define a connection string to connect to the database. This includes the name of the database, the server name,
    and security credentials to access the database.
 3. Open a connection to the database using the connection string.
 4. Create a command object called "cmd" that will be used to execute the SQL query against the database.
 5. Set the command object's connection property to the open connection to the database.
 6. Execute the SQL query using the command object, and retrieve the results as a data reader object called "sdr".
 7.  Loop through each row in the data reader object using a while loop.
 8.  For each row, create a new instance of the "ClubMembers" class, and assign the values of the row's fields to
      the properties of the "ClubMembers" object.
 9.  Add the "ClubMembers" object to the list "listObject".
 10. Close the data reader object, the command object, and the database connection.
 11. Return the list "listObject" containing the data retrieved from the database. */

}
```

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# ASP Club

- This code defines two methods in a controller class, one called "Index" and another called "GetInfoFromDB".
- The "Index" method returns a view that displays information retrieved from a database by calling the "GetInfoFromDB" method.
- The "GetInfoFromDB" method retrieves information about club members from a database and returns it as a list of objects of type "ClubMembers". Here's a step-by-step breakdown of what the "GetInfoFromDB" method does:

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# ASP Club

1. Create an empty list called "listObject" to hold the results of the database query.
2. Define a connection string to connect to the database. This includes the name of the database, the server name, and security credentials to access the database.
3. Open a connection to the database using the connection string.
4. Create a command object called "cmd" that will be used to execute the SQL query against the database.
5. Set the command object's connection property to the open connection to the database.
6. Execute the SQL query using the command object, and retrieve the results as a data reader object called "sdr".
7. Loop through each row in the data reader object using a while loop.
8. For each row, create a new instance of the "ClubMembers" class, and assign the values of the row's fields to the properties of the "ClubMembers" object.
9. Add the "ClubMembers" object to the list "listObject".
10. Close the data reader object, the command object, and the database connection.
11. Return the list "listObject" containing the data retrieved from the database.

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# ASP Club

- Overall, the "GetInfoFromDB" method is designed to retrieve information about club members from a database and return it as a list of objects of type "ClubMembers". This list can then be used to populate a data grid or perform other operations on the data. The "Index" method uses this list to display information about club members in our web page.
- Once you have finished writing the code, please run the program. The program will then take you to the "Index" view for the "ClubMember". If there is data in the database, it will be displayed in a table format. However, if there is no data in the database, you will not see any information displayed on the page.

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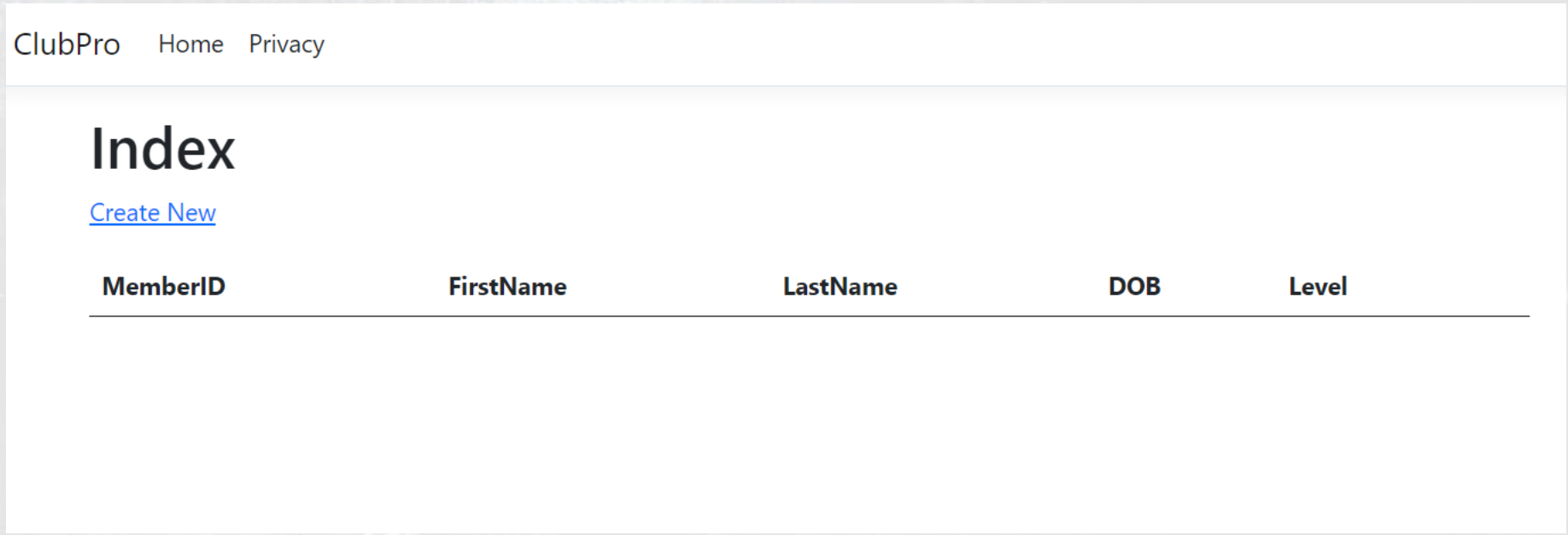
# ASP Club



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# ASP Club

1. Begin by creating a new method called "Create" with an HTTP GET attribute. This method will be used to display a view to the user.
2. Inside the "Create" method, return a "View" object that displays an empty form for creating a new club member.
3. Create a new method called "Create" with an HTTP POST attribute. This method will be used to handle the form submission.
4. Define a connection string to connect to the database. This includes the name of the database, the server name, and security credentials to access the database.
5. Define an SQL query string that inserts a new row into the "ClubMembers" table with the form data submitted by the user.
6. Inside the HTTP POST method, create an instance of the "ClubMembers" class and pass the form data submitted by the user to this object.
7. Open a connection to the database using the connection string.
8. Create a command object called "cmd" that will be used to execute the SQL query against the database.
9. Set the command object's connection property to the open connection to the database.
10. Execute the SQL query using the command object to insert the new club member data into the database.
11. Close the database connection.
12. Return a "View" object that displays the "Index" view and the updated data retrieved from the database by calling the "GetInfoFromDB" method.

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# Creating the information and adding it to the view

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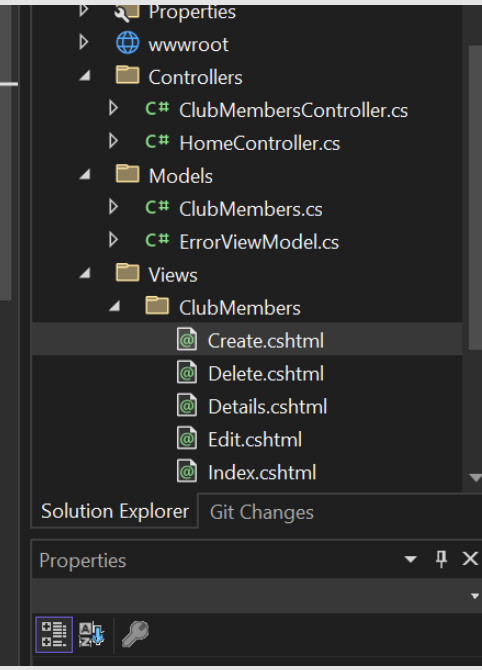
# ASP Club

- Remove the Member ID from the Create View

```
<h1>Create</h1>

<h4>ClubMembers</h4>
<hr />
<div class="row">
    <div class="col-md-4">
        <form asp-action="Create">
            <div asp-validation-summary="ModelOnly" class="text-danger"></div>
            <div class="form-group">
                <label asp-for="MemberID" class="control-label"></label>
                <input asp-for="MemberID" class="form-control" />
                <span asp-validation-for="MemberID" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="FirstName" class="control-label"></label>
                <input asp-for="FirstName" class="form-control" />
                <span asp-validation-for="FirstName" class="text-danger"></span>
            </div>
            <div class="form-group">
```



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# ASP Club

```
[HttpGet]
0 references
public ActionResult Create()
{
    return View();
}
[HttpPost]
0 references
public ActionResult Create(ClubMembers clubMembers)
{
    /*
    1.  Begin by creating a new method called "Create" with an HTTP GET attribute. This method will be used to
      display a view to the user.
    2.  Inside the "Create" method, return a "View" object that displays an empty form for creating a new club
      member.
    3.  Create a new method called "Create" with an HTTP POST attribute. This method will be used to handle the
      form submission.
    4.  Define a connection string to connect to the database. This includes the name of the database, the server
      name, and security credentials to access the database.
    5.  Define an SQL query string that inserts a new row into the "ClubMembers" table with the form data submitted
       by the user.
    6.  Inside the HTTP POST method, create an instance of the "ClubMembers" class and pass the form data submitted
       by the user to this object.
    7.  Open a connection to the database using the connection string.
    8.  Create a command object called "cmd" that will be used to execute the SQL query against the database.
    9.  Set the command object's connection property to the open connection to the database.
    10. Execute the SQL query using the command object to insert the new club member data into the database.
    11. Close the database connection.
    12. Return a "View" object that displays the "Index" view and the updated data retrieved from the database by
      calling the "GetInfoFromDB" method.
    */
}
```

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# ASP Club

1. Begin by creating a new method called "Create" with an HTTP GET attribute. This method will be used to display a view to the user.
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3. Create a new method called "Create" with an HTTP POST attribute. This method will be used to handle the form submission.
4. Define a connection string to connect to the database. This includes the name of the database, the server name, and security credentials to access the database.
5. Define an SQL query string that inserts a new row into the "ClubMembers" table with the form data submitted by the user.
6. Inside the HTTP POST method, create an instance of the "ClubMembers" class and pass the form data submitted by the user to this object.
7. Open a connection to the database using the connection string.
8. Create a command object called "cmd" that will be used to execute the SQL query against the database.
9. Set the command object's connection property to the open connection to the database.
10. Execute the SQL query using the command object to insert the new club member data into the database.
11. Close the database connection.
12. Return a "View" object that displays the "Index" view and the updated data retrieved from the database by calling the "GetInfoFromDB" method.

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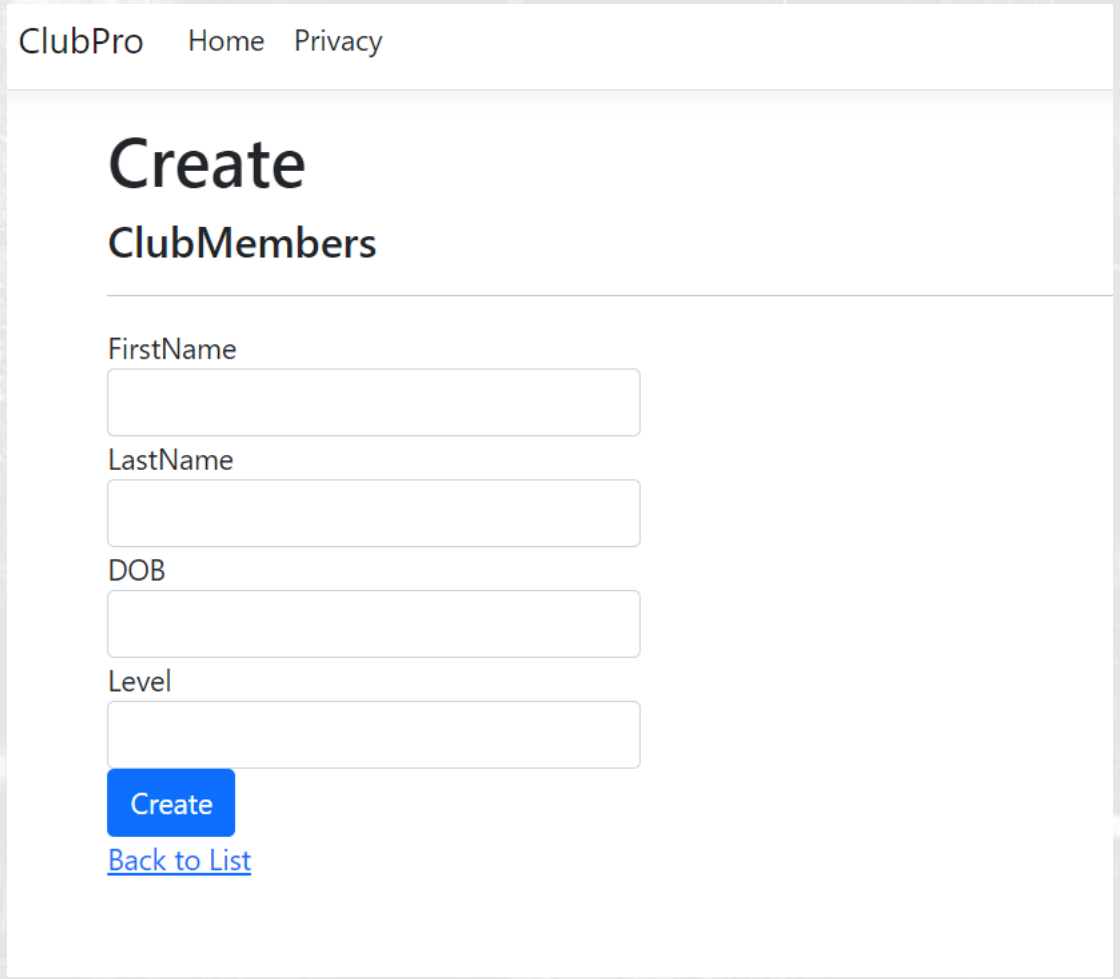
# ASP Club



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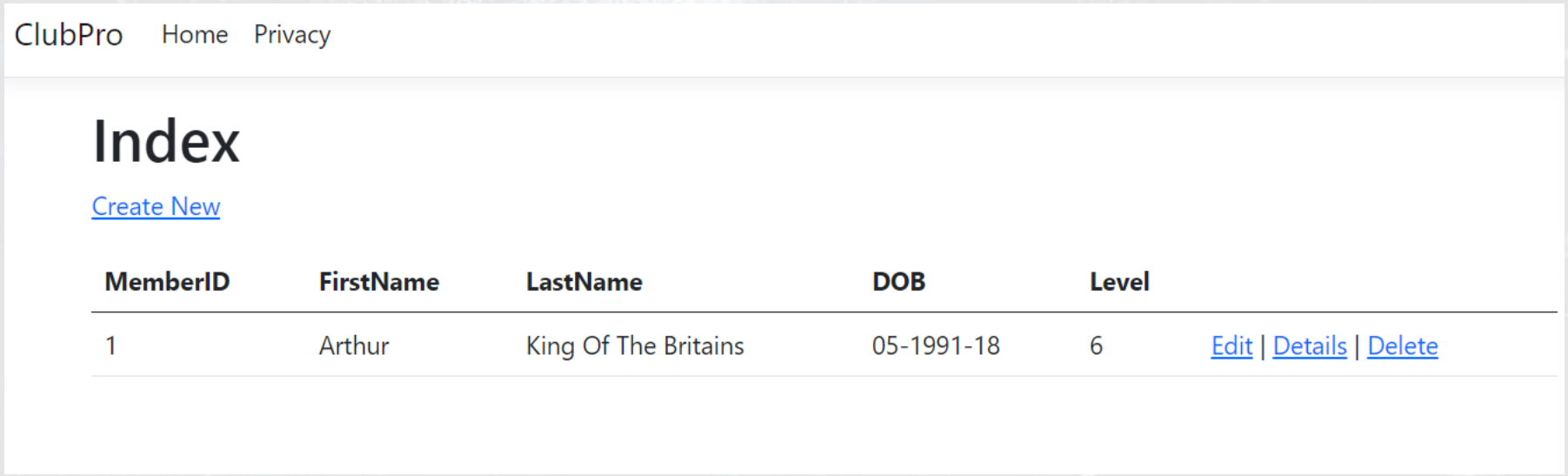
# ASP Club



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# Editing the information and adding it to the view

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# ASP Club

To create an Edit action method in an ASP.NET MVC project using SQL Client:

1. Add a new HttpGet action method to the controller class, accepting an id parameter.
2. Inside the HttpGet action method, create a connection string to connect to the database.
3. Create a SQL query string to select the record with the specified id value from the ClubMembers table.
4. Create a new ClubMembers object to store the retrieved record data.
5. Using a SqlConnection object, connect to the database and execute the SQL query string to retrieve the record with the specified id.
6. Using a SqlDataReader object, read the retrieved record data and store it in the ClubMembers object.
7. Return the ClubMembers object to the corresponding view using the View method.

To create an Edit HTTP POST action method:

1. Add a new HttpPost action method to the controller class, accepting an ID and a ClubMembers object parameter.
2. Inside the HttpPost action method, create a connection string to connect to the database.
3. Create a SQL query string to update the record with the specified ID value in the ClubMembers table with the data in the ClubMembers object parameter.
4. Using a SqlConnection object, connect to the database and execute the SQL query string to update the record with the specified ID.
5. Redirect the user to the Index action method of the controller class.

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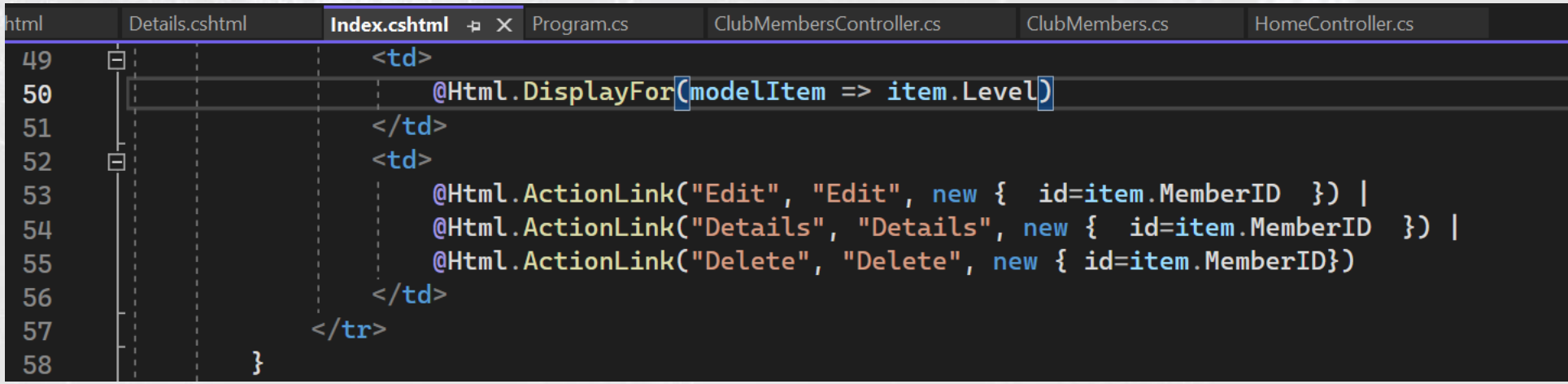
# ASP Club

In the Index view uncomment the /*id=item.PRIMARY KEY*/
And make it look like the one in the picture



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# ASP CLUB

- Make the MemberID Read-only In the Edit View:

```
<h1>Edit</h1>

<h4>ClubMembers</h4>
<hr />
<div class="row">
    <div class="col-md-4">
        <form asp-action="Edit">
            <div asp-validation-summary="ModelOnly" class="text-danger"></div>
            <div class="form-group">
                <label asp-for="MemberID" class="control-label"></label>
                <input asp-for="MemberID" class="form-control" readonly />
                <span asp-validation-for="MemberID" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="FirstName" class="control-label"></label>
                <input asp-for="FirstName" class="form-control" />
                <span asp-validation-for="FirstName" class="text-danger"></span>
            </div>
```

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# ASP Club

```
[HttpGet]
0 references
public ActionResult Edit(int id)
{

    /*This 'Edit' function retrieves data from the database and sends it to the view, allowing us to make
       modifications:
        1.  Add a new HttpGet action method to the controller class, accepting an id parameter.
        2.  Inside the HttpGet action method, create a connection string to connect to the database.
        3.  Create a SQL query string to select the record with the specified id value from the
          ClubMembers table.
        4.  Create a new ClubMembers object to store the retrieved record data.
        5.  Using a SqlConnection object, connect to the database and execute the SQL query string to
          retrieve the record with the specified id.
        6.  Using a SqlDataReader object, read the retrieved record data and store it in the ClubMembers
          object.
        7.  Return the ClubMembers object to the corresponding view using the View method.

    //do all database actions such as connection object and a recordSet/dataset data adapter
}
```

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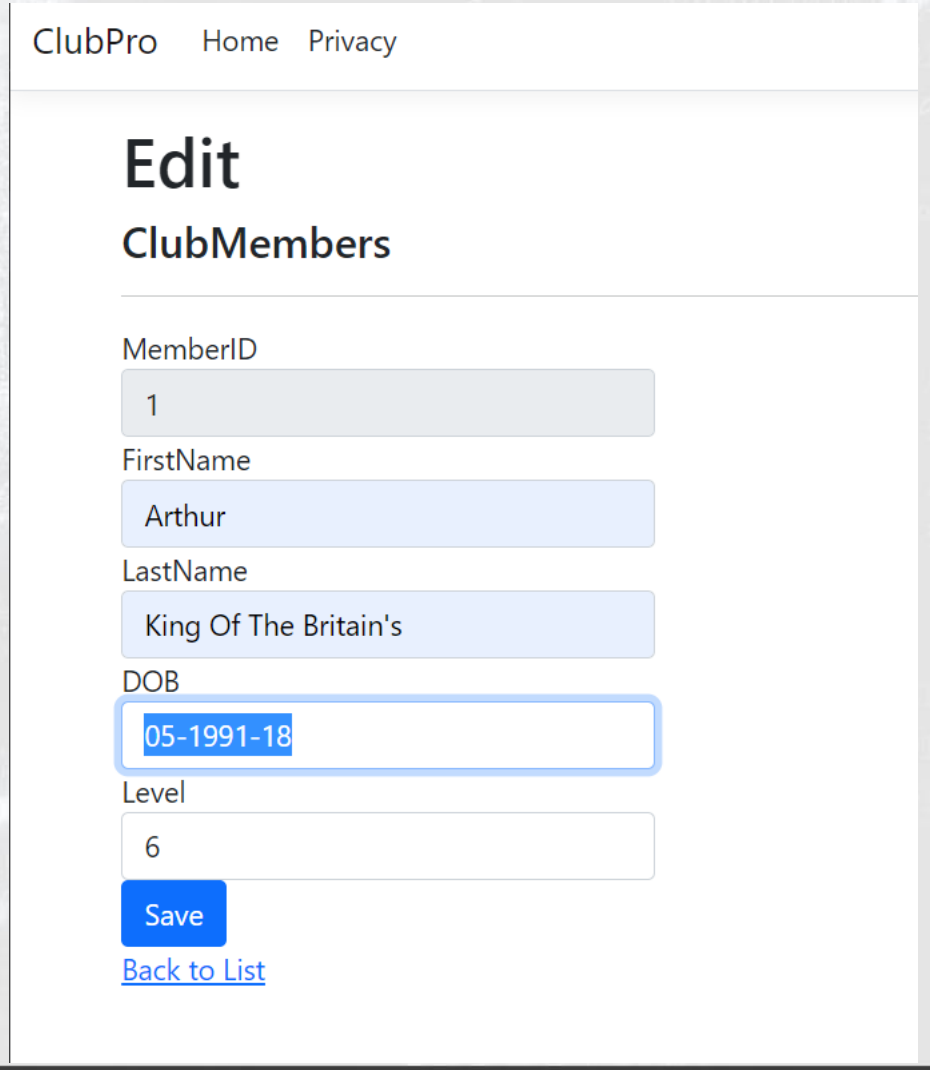
475 Granville Street, Vancouver, BC, V6C 1T1
Phone: +1(604)558-8727, +1(604)409-8200
Toll Free: +1(888) 880-4410
Fax: +1(888) 881-6545
Web: www.itdcanada.ca
Email: studying@itdcanada.ca

# ASP Club



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475 Granville Street, Vancouver, BC, V6C 1T1
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# ASP Club

```
[HttpPut]
0 references
public ActionResult Edit(int ID, ClubMembers clubMembers)
{
    /*Now that we found the Memeber and can see the Data, we can edit it:
        1.  Add a new HttpPost action method to the controller class, accepting an ID and a ClubMembers
          object parameter.
        2.  Inside the HttpPost action method, create a connection string to connect to the database.
        3.  Create a SQL query string to update the record with the specified ID value in the ClubMembers
           table with the data in the ClubMembers object parameter.
        4.  Using a SqlConnection object, connect to the database and execute the SQL query string to
          update the record with the specified ID.
        5.  Redirect the user to the Index action method of the controller class.
    */
}
```

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# ASP Club

## Index

Create New

| MemberID | FirstName | LastName | DOB | Level | |
|---|---|---|---|---|---|
| 1 | Arthur | King Of The Britains | 1880-02-21 | Friend Of Tim | Edit \| Details \| Delete |

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# Getting the Details and adding it to the view

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# ASP Club

- For “Details” there is only one action method. This is because the main goal of the “Details” action method is to display the details of a single club member. Since there are no other actions required in this case, there's no need for any additional methods.

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# ASP Club

```
[HttpGet]
0 references
public ActionResult Details(int id)
{
/*
    1. Add a new action method to the controller called Details.
    2. Within the Details action function, create a connection string that tells your application how to connect to the database.
    3. Write an SQL query that selects the details for a specific club member using the id parameter.
    4. Create a new instance of the ClubMembers class that will hold the club member's details.
    5. Connect to the database using the connection string.
    6. Execute the SQL query.
    7. Loop through the results of the SQL query and set the properties of the class you created to the corresponding values.
    8. Return a view that displays the club member's details.
    9. Test the action by navigating to the appropriate URL and verifying that the club member's details are displayed.

}
```

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# ASP Club

1. Add a new action function to the controller called Details.
2. Within the Details action function, create a connection string that tells your application how to connect to the database.
3. Write an SQL query that selects the details for a specific club member using the id parameter.
4. Create a new instance of the ClubMembers class that will hold the club member's details.
5. Connect to the database using the connection string.
6. Execute the SQL query.
7. Loop through the results of the SQL query and set the properties of the class you created to the corresponding values.
8. Return a view that displays the club member's details.
9. Test the action by navigating to the appropriate URL and verifying that the club member's details are displayed.

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# Deleting

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Phone: +1(604)558-8727, +1(604)409-8200
Toll Free: +1(888) 880-4410
Fax: +1(888) 881-6545
Web: www.itdcanada.ca
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# ASP Club

- The HttpGet method retrieves the details of a single ClubMember by their ID from the database, and displays it in a view.
- The HttpPost method is called when the user confirms that they want to delete the ClubMember, and it deletes the member's record from the database.
- Both methods use a connection string to connect to the database, and execute a SQL query using a SqlCommand object. The HttpGet method reads the data using a SqlDataReader object, while the HttpPost method executes the query using cmd.ExecuteNonQuery().
- After the ClubMember is deleted, the HttpPost method returns the view of the Index page to display the updated list of ClubMembers.

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# ASP Club

```
[HttpGet]
0 references
public ActionResult Delete(int id)
{
    /*
     1. [HttpGet] Delete(int id)
        •   HTTP GET method used for displaying the record to be deleted
        •   Takes the record ID as a parameter
        •   Establishes a connection to the database
        •   Builds an SQL statement to select the record with the specified ID
        •   Executes the SQL query to retrieve the record from the database
        •   Maps the database record to an object of the ClubMembers class
        •   Passes the object to a view for display
     */
}
```

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# ASP Club

```
[HttpPost]
0 references
public ActionResult Delete(int id, ClubMembers clubMembers)
{
    /*
     2. [HttpPost] Delete(int id, ClubMembers clubMembers)
        •   HTTP POST method used for deleting the record
        •   Takes the record ID and ClubMembers object as parameters
        •   Establishes a connection to the database
        •   Builds an SQL statement to delete the record with the specified ID
        •   Executes the SQL query to delete the record from the database
        •   Returns a view to display the remaining records in the database
     */

}
```

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# ASP Club

## 1. [HttpGet] Delete(int id)

- HTTP GET method used for displaying the record to be deleted
- Takes the record ID as a parameter
- Establishes a connection to the database
- Builds an SQL statement to select the record with the specified ID
- Executes the SQL query to retrieve the record from the database
- Maps the database record to an object of the ClubMembers class
- Passes the object to a view for display

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# ASP Club

2. [HttpPost] Delete(int id, ClubMembers clubMembers)

1. HTTP POST method used for deleting the record
2. Takes the record ID and ClubMembers object as parameters
3. Establishes a connection to the database
4. Builds an SQL statement to delete the record with the specified ID
5. Executes the SQL query to delete the record from the database
6. Returns a view to display the remaining records in the database