

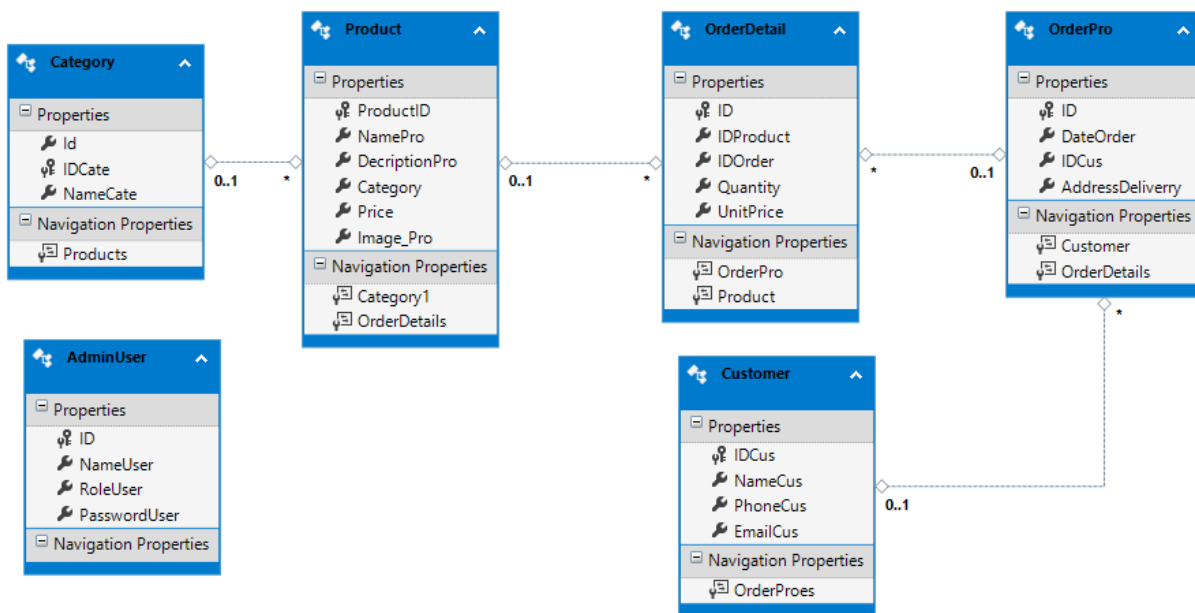
THỰC HÀNH LẬP TRÌNH WEB NÂNG CAO

BÀI THỰC HÀNH 01:

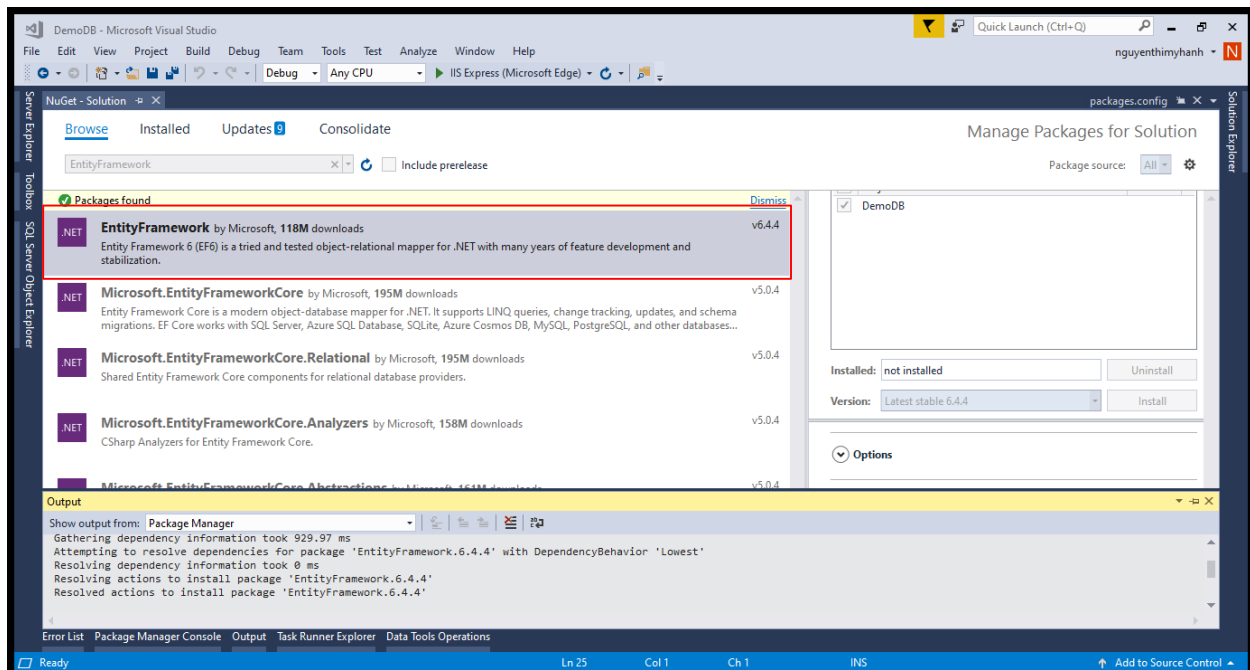
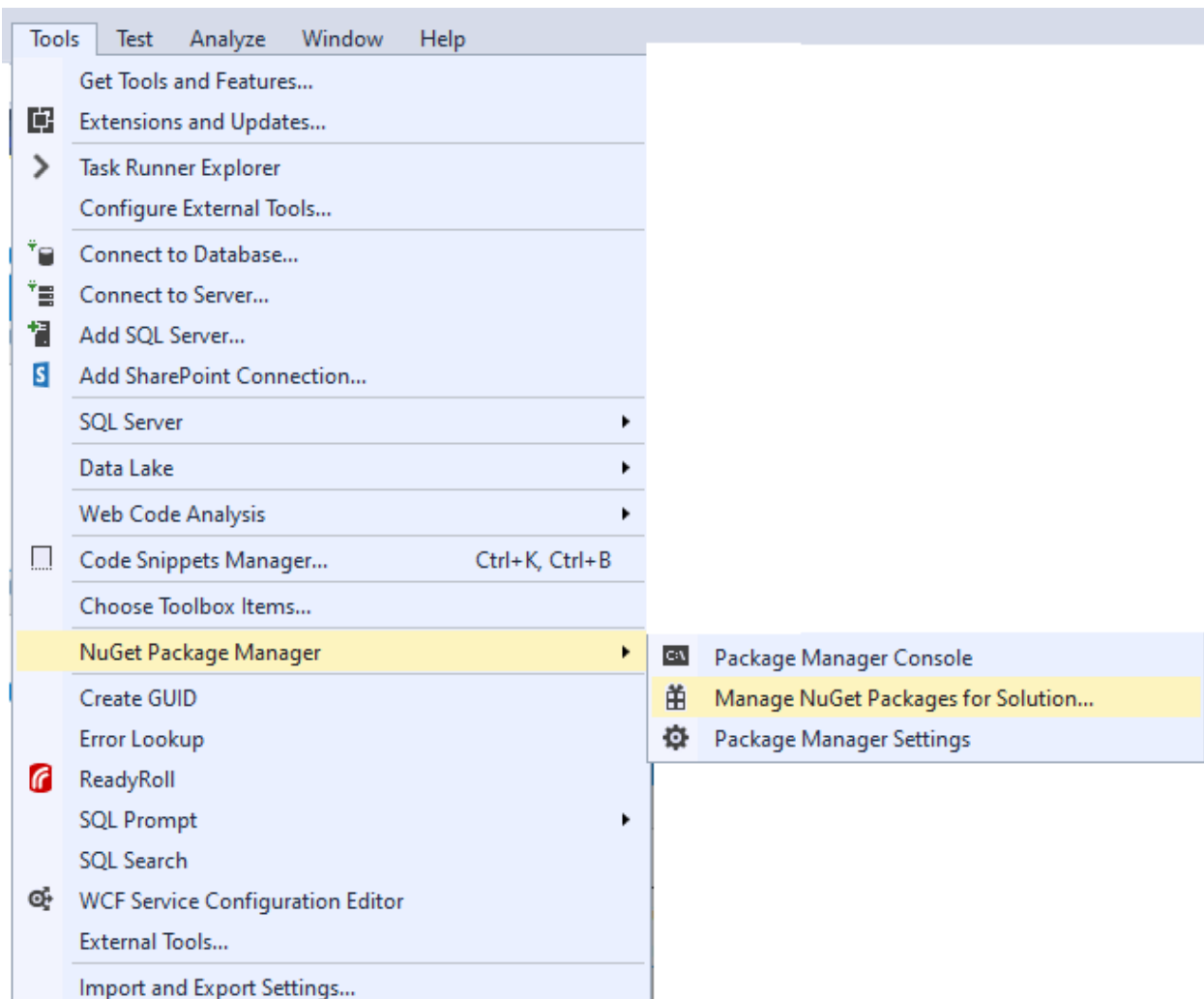
Kết nối CSDL bằng Database First

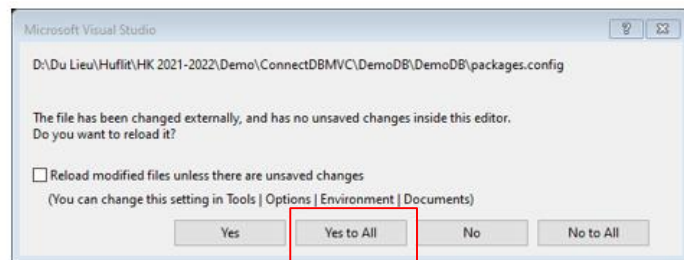
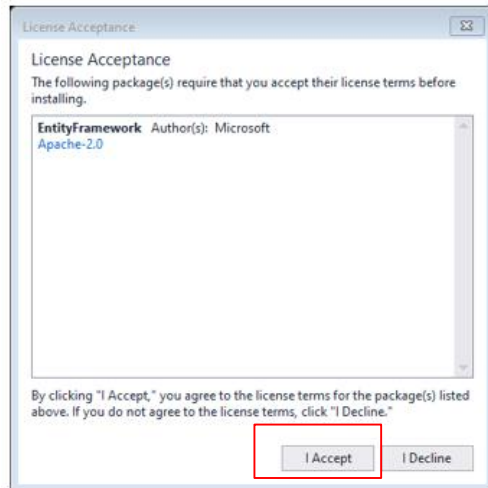
- Cơ sở dữ liệu được sử dụng trong bài thực hành: **DBSportStore**

[Link tải database](#)

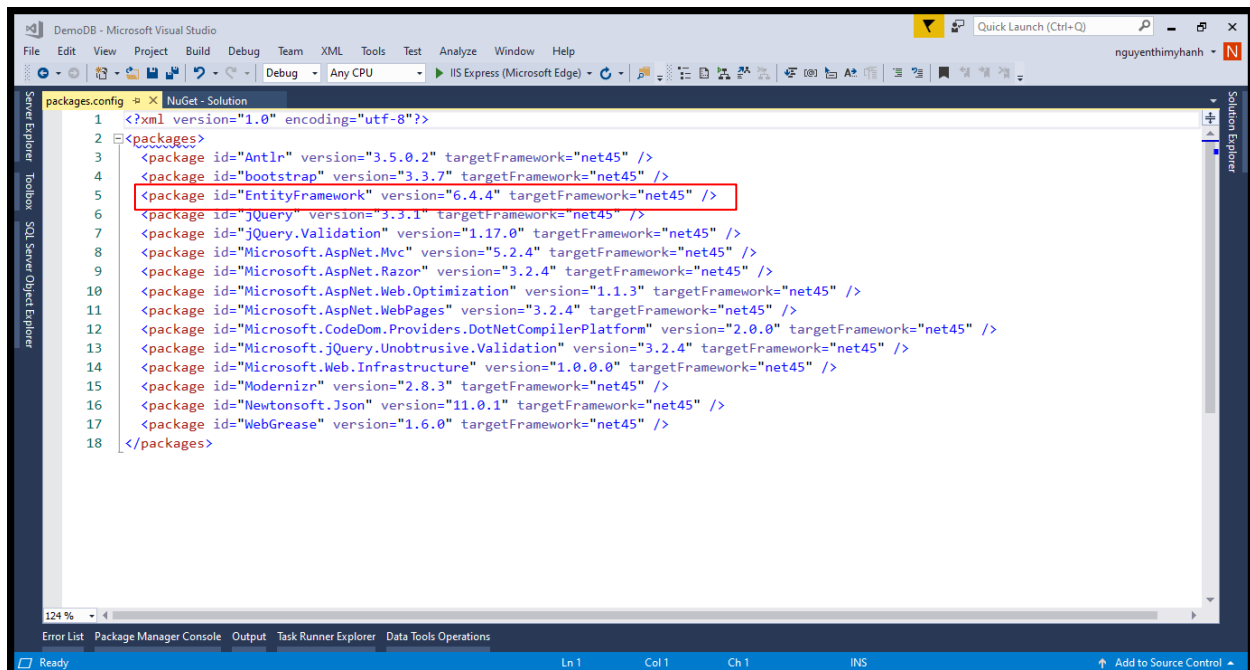


- Tạo mới Project: DemoDB2.sln
- Cài đặt Entity Framework

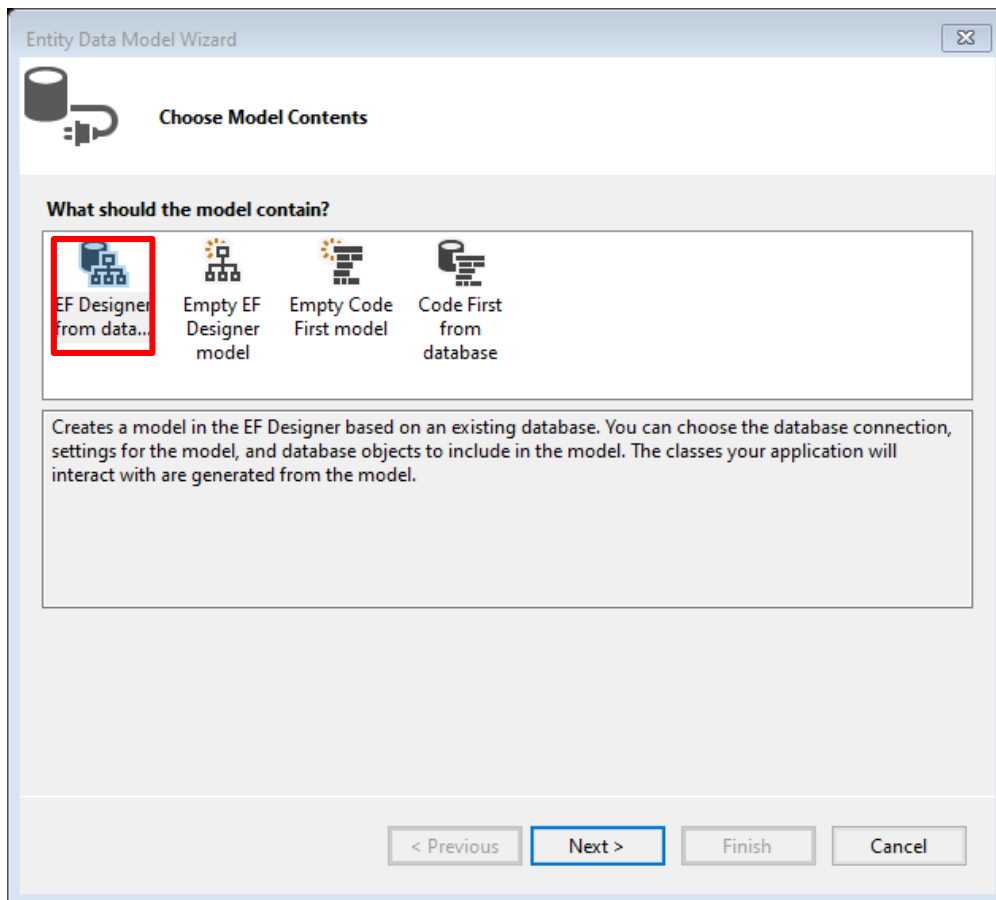
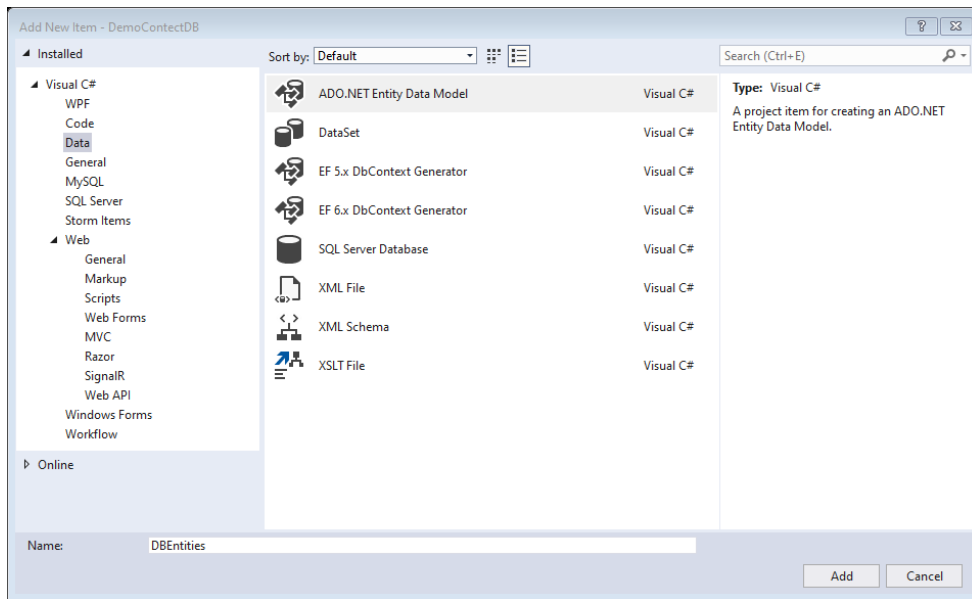





- Mở tập tin packages.config quan sát kết quả sau khi cài đặt EF:



- Add Database **DBSportStore** vào Project
- Nhấp phải chuột vào thư mục **Model** => **Add** => **New Item** => **C#** => **Data** => **ADO. NET Entity Data Model** => gõ tên: **EntitiesDB** => **Add**



Entity Data Model Wizard

 **Choose Your Data Connection**

Which data connection should your application use to connect to the database?

desktop-doard27.dbUser.dbo ▼ New Connection...

This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?

☐ No, exclude sensitive data from the connection string. I will set it in my application code.

☐ Yes, include the sensitive data in the connection string.

Connection string:

```
metadata=res://*/Models.DBEntites.csdl|res://*/Models.DBEntites.ssdl|
res://*/Models.DBEntites.msl;provider=System.Data.SqlClient;provider connection string="data
source=.;initial catalog=dbUser;integrated
security=True;pooling=False;MultipleActiveResultSets=True;App=EntityFramework"
```

☒ Save connection settings in Web.Config as:

dbUserEntities

< Previous Next > Finish Cancel

Connection Properties

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source: Microsoft SQL Server (SqlClient) Change...

Server name: GỖ SQL Server Name ▼ Refresh

Log on to the server:

Authentication: Windows Authentication ▼

User name:

Password:

☐ Save my password

Connect to a database

☒ Select or enter a database name:

Chọn tên database ▼

☐ Browse for a database to connect to:

Browse...

Logical name:

Advanced...

Test Connection OK Cancel

Connection Properties

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source: baikiemtra

Micro: Database

Server: DatabaseContext2

Log: db_kiemtra_Hiast

Auth: DB_QLBH

Conn: DB_Shop

Test: DBEx1

DBShopOnline_C2

DBSportStore

dbUser

EX1DB

master

model

msdb

PaginationDBContext

QLBH_C1

QLSP

Shop

Shop_Database

ShopOnlineDB

tempdb

Test

Attach a database file:

Browse...

Logical name:

Advanced...

Test Connection

OK

Cancel

Entity Data Model Wizard

Choose Your Database Objects and Settings

Which database objects do you want to include in your model?

☒ Tables

☒ dbo

☒ AdminUser

☒ Category

☒ Customer

☒ OrderDetail

☒ OrderPro

☒ Products

☐ Views

☐ Stored Procedures and Functions

☒ Pluralize or singularize generated object names

☒ Include foreign key columns in the model

☐ Import selected stored procedures and functions into the entity model

Model Namespace:

DBSportStoreModel1

< Previous

Next >

Finish

Cancel

- Sau khi add thành công Database vào Model, bạn mở tập tin **Web.config**

```

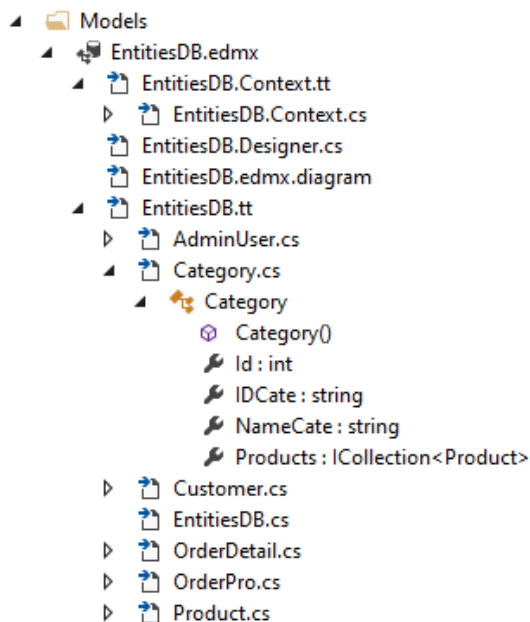
1 <?xml version="1.0" encoding="utf-8"?>
2 <!--
3 For more information on how to configure your ASP.NET application, please visit
4 https://go.microsoft.com/fwlink/?LinkId=301880
5 -->
6 <configuration>
7   <configSections>...</configSections>
11  <appSettings>...</appSettings>
17  <system.web>...</system.web>
21  <runtime>...</runtime>
53  <system.codedom>...</system.codedom>
59  <entityFramework>...</entityFramework>
69  <connectionStrings>
70    <add name="DBSportStoreEntities"
71      connectionString="metadata=res://*/Models.EntitiesDB.csdl|res://*/Models.EntitiesDB.ssdl|res://*/Models.EntitiesDB.msl;
72      provider=System.Data.SqlClient;provider connection string="
73      data source=.;initial catalog=DBSportStore;integrated security=True;
74      MultipleActiveResultSets=True;App=EntityFramework";
75      providerName="System.Data.EntityClient" />
76    </connectionStrings>
77  </connectionStrings>
78 </configuration>

```

Trong tập tin Web.config: thẻ **<connectionString>...</connectionString>** chứa chuỗi kết nối Database từ SQL Server:

- name**: tên Database mức ngữ cảnh, dùng để khởi tạo database khi bạn muốn gọi lại các Domain class để truy xuất các thuộc tính cũng như truy xuất dữ liệu trong database.
- data source**: tên SQL Server Name
- initial catalog**: tên database

Nội dung trong thư mục Models sau khi Add Database:



BÀI THỰC HÀNH 02: Controller

- Tại thư mục **Controller**: Add => New => **Controller** => **Empty Controller** => **CategoriesController**

Trong CategoriesController:

❖ Xây dựng action method hiển thị danh sách dữ liệu, thêm/xóa/sửa dữ liệu, tìm kiếm theo tên NameCate trong bảng Category

HƯỚNG DẪN THỰC HÀNH

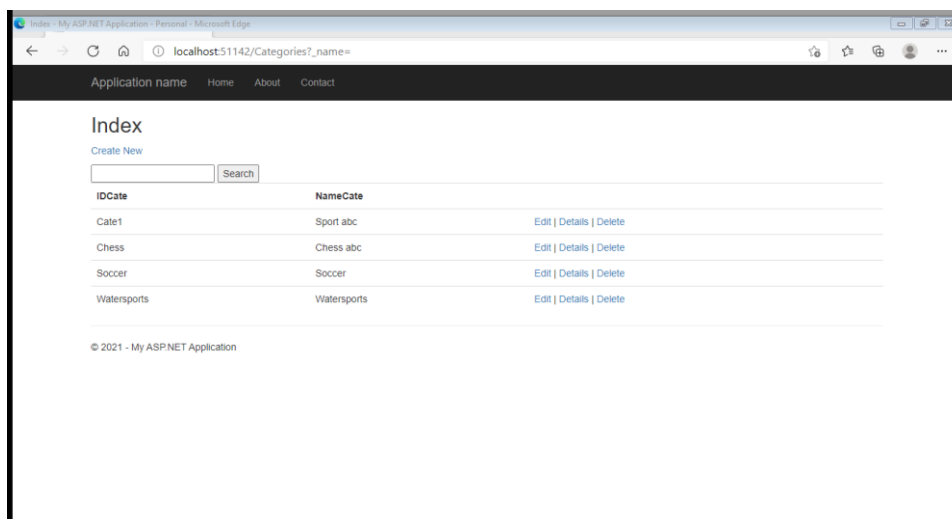
- Khai báo thư viện dẫn tới thư mục Module: `using DemoContextDB.Models;`
- Khởi tạo database:
`DBSportStoreEntities database = new DBSportStoreEntities();`

Đề biết tên Database trong lớp ngữ cảnh: mở tập tin **EntitiesDB.context.cs**



The screenshot shows the Visual Studio IDE. On the left, the 'Models' folder is expanded, showing 'EntitiesDB.edmx' and 'EntitiesDB.Context.tt'. The 'EntitiesDB.Context.tt' file is selected, and its contents are displayed in the main editor. The code defines the 'DBSportStoreEntities' class, which inherits from 'DbContext'. The 'OnModelCreating' method is overridden, and the 'DbContext' constructor is called with the connection string 'name=DBSportStoreEntities'. A red box highlights the 'EntitiesDB.Context.tt' file in the project explorer. Another red box highlights the 'OnModelCreating' method in the code. A third red box highlights the 'name=DBSportStoreEntities' connection string in the 'OnModelCreating' method. A fourth red box highlights the 'name=DBSportStoreEntities' connection string in the 'WebResource' attribute of the 'DbContext' constructor. A red box also highlights the 'WebResource' attribute in the code.

- Chức năng hiển thị danh sách Category bằng Template: List



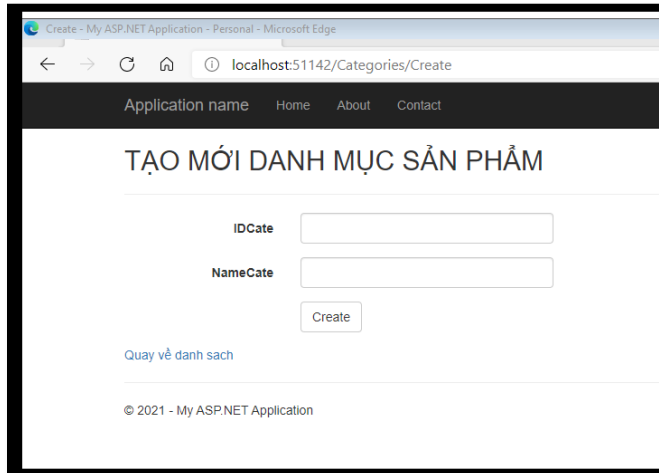

```

public ActionResult Index()
{
    return View(database.Categories.ToList());
}

```

- Render action Index() đến View => Run

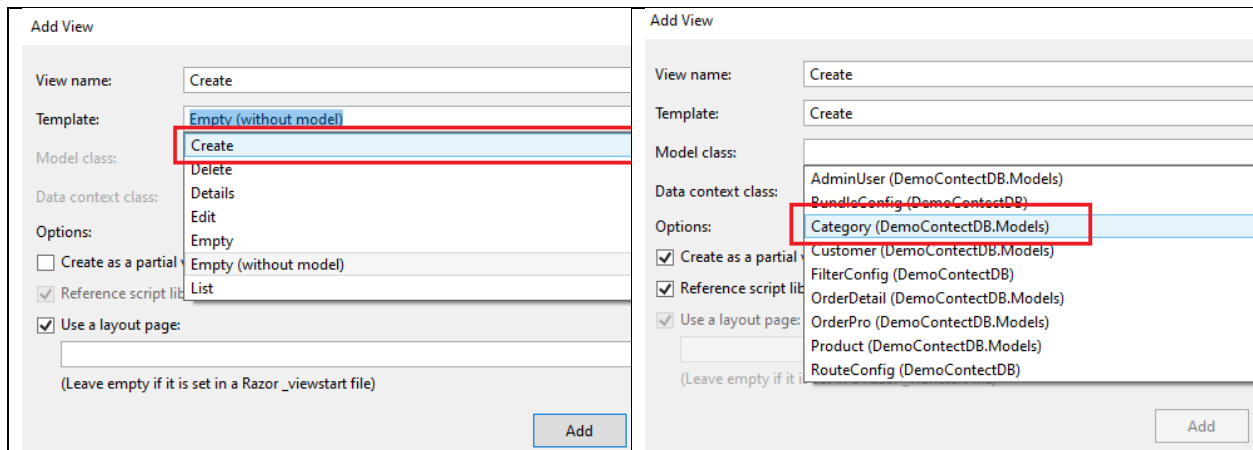
➤ **Chức năng Create New: Render action Create đến View sử dụng Template Create**

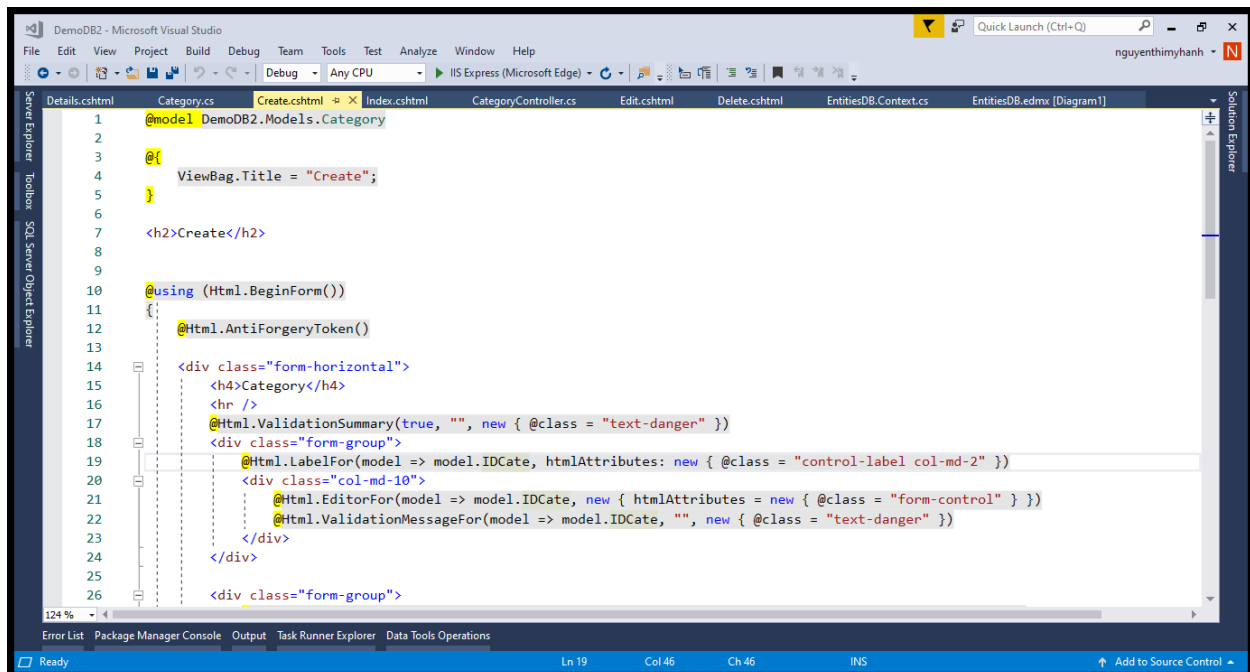


```

public ActionResult Create()
{
    return View();
}

```





➤ Viết action Create: cập nhật, lưu dòng mới vào bảng Category

```

}
[HttpPost]
0 references
public ActionResult Create(Category cate)
{
    try
    {
        database.Categories.Add(cate);
        database.SaveChanges();
        return RedirectToAction("Index");
    }
    catch
    {
        return Content("Error Create New");
    }
}

```

➤ Chức năng xem thông tin chi tiết

```
public ActionResult Details(int id)
{
    return View(database.Categories.Where(s => s.Id == id).FirstOrDefault());
}
```

Application name Home About Contact

Details

Category

IDCate	Soccer
NameCate	Soccer

[Edit](#) | [Back to List](#)

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➤ Chức năng Edit/chỉnh sửa thông tin

- Hiển thị Form Edit: Sau khi viết lệnh lấy thông tin theo id trong Controller => Render đến View để tạo Form

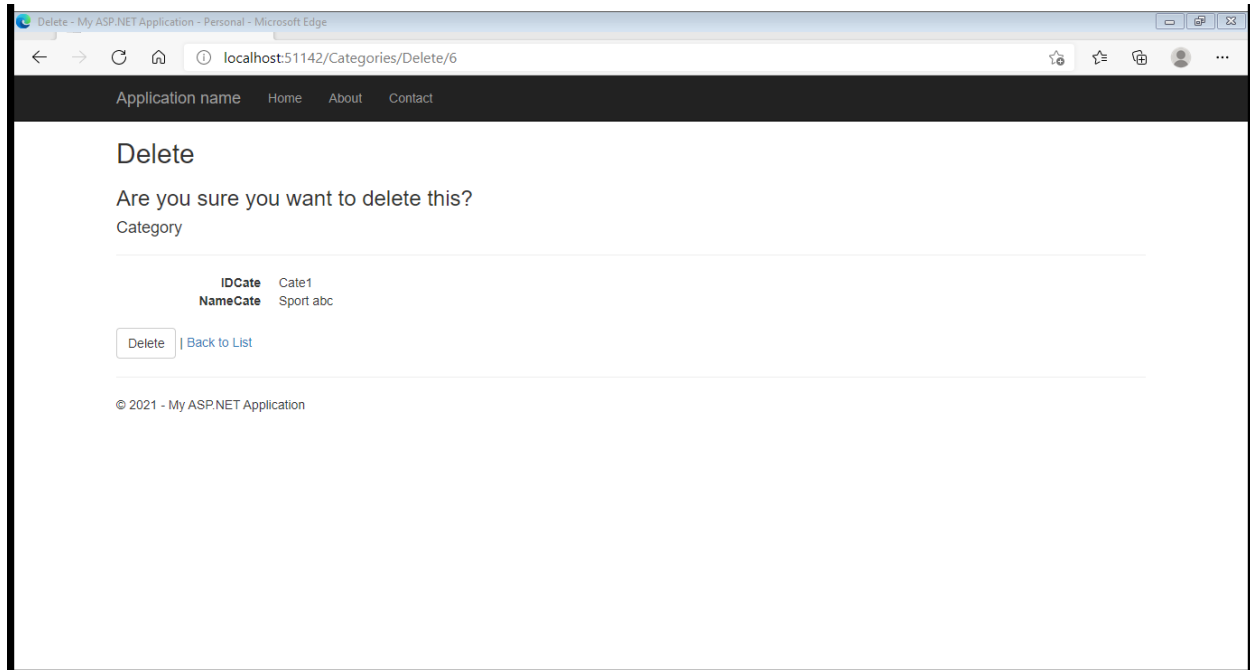
```
public ActionResult Edit(int id)
{
    return View(database.Categories.Where(s => s.Id == id).FirstOrDefault());
}
```

- Cập nhật thông tin xuống Database

```
[HttpPost]
0 references
public ActionResult Edit(int id, Category cate)
{
    database.Entry(cate).State = System.Data.Entity.EntityState.Modified;
    database.SaveChanges();
    return RedirectToAction("Index");
}
```

➤ Chức năng xóa dữ liệu

- Hiện thị thông tin chi tiết, hỏi trước khi xóa



0 references

```
public ActionResult Delete(int id)
{
    return View(database.Categories.Where(s => s.Id == id).FirstOrDefault());
}
```

- Cập nhật dữ liệu bị xóa xuống Database

[HttpPost]

0 references

```
public ActionResult Delete(int id, Category cate)
{
    try
    {
        cate = database.Categories.Where(s => s.Id == id).FirstOrDefault();
        database.Categories.Remove(cate);
        database.SaveChanges();
        return RedirectToAction("Index");
    }
    catch
    {
        return Content("This data is using in other table, Error Delete!");
    }
}
```

➤ Chức năng tìm kiếm dữ liệu Category theo NameCate: update lại thêm lệnh tìm kiếm cho action Index trong CategoriesController

```
public ActionResult Index(string _name)
{
    if(_name==null)
        return View(database.Categories.ToList());
    else
        return View(database.Categories.Where(s => s.NameCate.Contains(_name)).ToList());
}
```

- Mở tập tin Index.cshtml thêm control

```
1  @model IEnumerable<DemoConectDB.Models.Category>
2
3  @{
4      ViewBag.Title = "Index";
5  }
6
7  <h2>Index</h2>
8
9  <p>
10     @Html.ActionLink("Create New", "Create")
11 </p>
12 @using (Html.BeginForm("Index", "Categories", FormMethod.Get))
13 {
14     <input type="text" name="_name"/>
15     <input type="submit" value="Search" />
16
17 <table class="table">
18     <tr>
19         <th>
20             @Html.DisplayNameFor(model => model.IDCate)
21         </th>
22         <th>
23             @Html.DisplayNameFor(model => model.NameCate)
24         </th>
25     </tr>
26
27     @foreach (var item in Model) {
28         <tr>
29             <td>
30                 @Html.DisplayFor(modelItem => item.IDCate)
31             </td>
32             <td>
33                 @Html.DisplayFor(modelItem => item.NameCate)
34             </td>
35             <td>
36                 @Html.ActionLink("Edit", "Edit", new { id=item.Id }) |
37                 @Html.ActionLink("Details", "Details", new { id=item.Id }) |
38                 @Html.ActionLink("Delete", "Delete", new { id=item.Id })
39             </td>
40         </tr>
41     }
42
43 </table>
44 }
```