Câu 1

Lab01.NetCore Home Privacy

Welcome

Learn about building Web apps with ASP.NET Core.

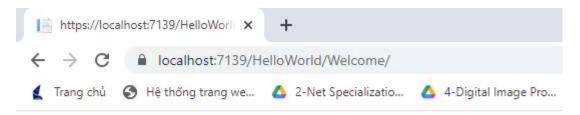
Activate Windows Go to Settings to activate

```
od File
          Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
 ⑥ → ○ 🎁 → 🚅 🔡 📳 🥠 → 🦰 → Debug → Any CPU
                                                             → Lab01.NetCore → D → 💍 → 🚟
                                              Lab01.NetCore: Overview
HelloWorldController.cs* - X HomeController.cs
Lab01.NetCore
                                                                           - 
→ Cab01.NetCore.Controllers.H

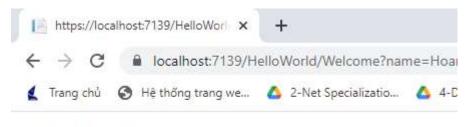
        1 using Microsoft.AspNetCore.Mvc;
2  using System.Text.Encodings.Web;
  {g
              □namespace Lab01.NetCore.Controllers
              {
                   Oreferences
public class HelloWorldController : Controller
  픰
                        // GET: /HelloWorld/
                        O references
public string Index()
                             return "This is my default action...";
                        // GET: /HelloWorld/Welcome/
                        O references
public string Welcome()
                            return "This is the Welcome action method...";
```



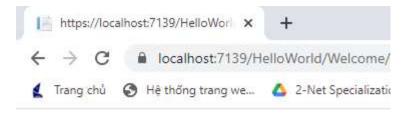
This is my default action...



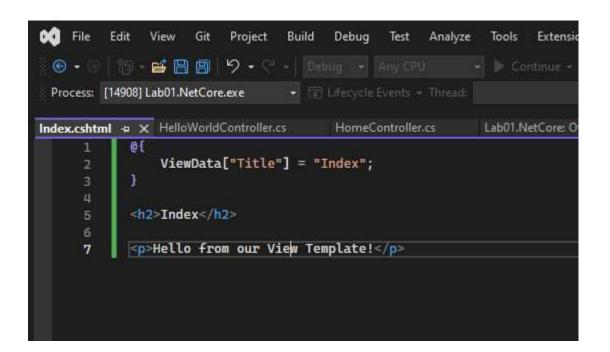
This is the Welcome action method...

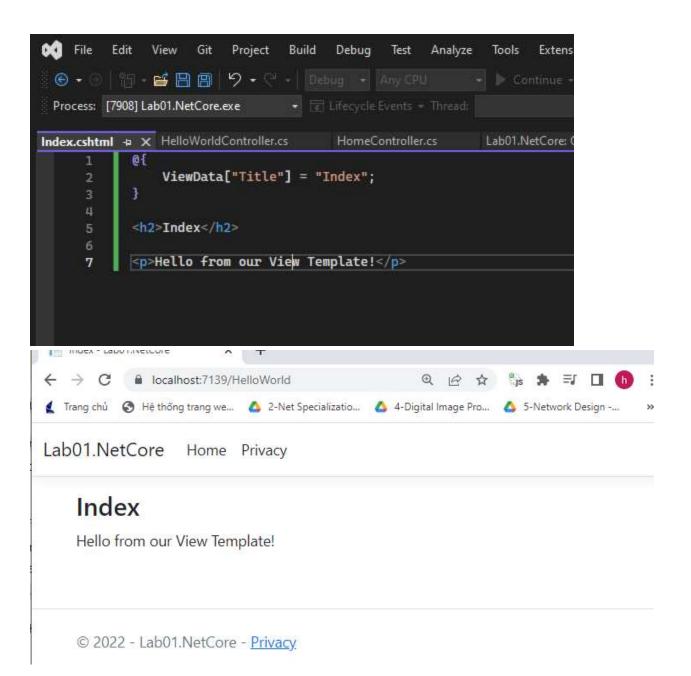


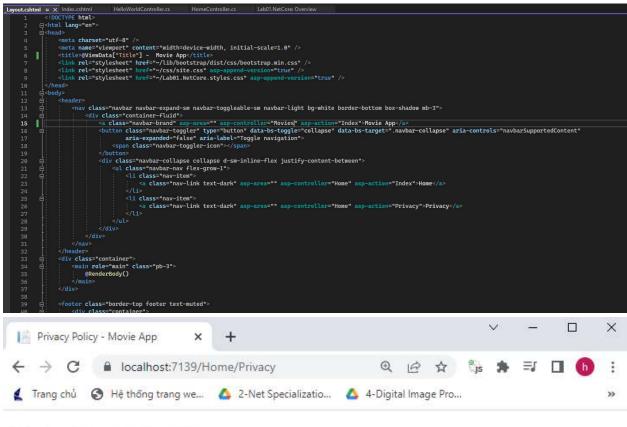
Hello Hoang, NumTimes is: 22



Hello Hoang, ID: 1554



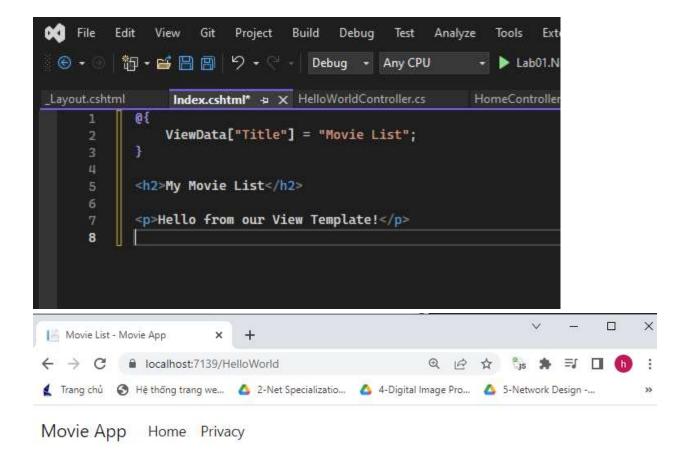




Movie App Home Privacy

Privacy Policy

Use this page to detail your site's privacy policy.



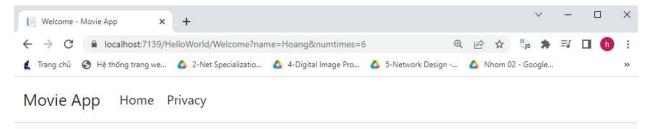
My Movie List

Hello from our View Template!

```
∃using Microsoft.AspNetCore.Mvc;
       using System.Text.Encodings.Web;
        □namespace Lab01.NetCore.Controllers
         {
              0 references
              public class HelloWorldController : Controller
                  // GET: /HelloWorld/
  10
                  0 references
                  public IActionResult Index()
  11
  12
                      return View();
  13
                  // GET: /HelloWorld/Welcome/
  17
                  // Requires using System.Text.Encodings.Web;
  18
                  public IActionResult Welcome(string name, int numTimes = 1)
  20
                      ViewData["Message"] = "Hello " + name;
  21
                      ViewData["NumTimes"] = numTimes;
  22
  23
                      return View();
  240
  25
  26
  27
  28
onie contini
        @{
            ViewData["Title"] = "Welcome";
        <h2>Welcome</h2>
      ⊟
            @for (int i = 0; i < (int)ViewData["NumTimes"]!; i++)</pre>
```

@ViewData["Message"]

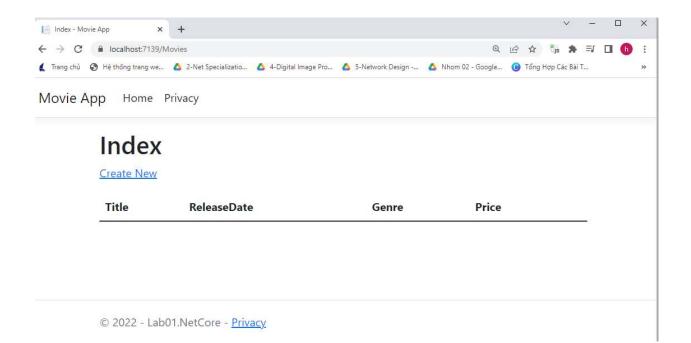
10 11 12



Welcome

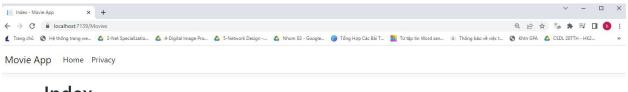
- Hello Hoang

```
⊟using System;
        using Microsoft.EntityFrameworkCore.Migrations;
 4
5
         #nullable disable
 6
7
       □namespace Lab01.NetCore.Migrations
               public partial class InitialCreate : Migration
                    protected override void Up(MigrationBuilder migrationBuilder)
                         migrationBuilder.CreateTable(
                              name: "Movie",
columns: table => new
                                    Id = table.Column<int>(type: "int", nullable: false)
                                    .Annotation("SqlServer:Identity", "1, 1"),
Title = table.Column<string>(type: "nvarchar(max)", nullable: true),
ReleaseDate = table.Column<DateTime>(type: "datetime2", nullable: false),
20
21
22
23
24
25
                                    Genre = table.Column<string>(type: "nvarchar(max)", nullable: true),
Price = table.Column<decimal>(type: "decimal(18,2)", nullable: false)
                               constraints: table =>
26
27
28
                                    table.PrimaryKey("PK_Movie", x => x.Id);
                               1);
29
30
                    protected override void Down(MigrationBuilder migrationBuilder)
                         migrationBuilder.DropTable(
                               name: "Movie");
        1
```



```
public static void Initialize(IServiceProvider serviceProvider)
                   using (var context = new Lab01NetCoreContext(
                        serviceProvider.GetRequiredService<
                            DbContextOptions<Lab01NetCoreContext>>()))
                        // Look for any movies.
                       if (context.Movie.Any())
19
                        {
                            return; // DB has been seeded
                       context.Movie.AddRange(
                           new Movie
                            {
                                Title = "When Harry Met Sally",
                                ReleaseDate = DateTime.Parse("1989-2-12"),
                                Genre = "Romantic Comedy",
                               Price = 7.99M
                           new Movie
                                Title = "Ghostbusters ",
                               ReleaseDate = DateTime.Parse("1984-3-13"),
                                Genre = "Comedy",
                                Price = 8.99M
                            new Movie
                                Title = "Ghostbusters 2",
                                ReleaseDate = DateTime.Parse("1986-2-23"),
                                Genre = "Comedy",
                                Price = 9.99M
                            },
                            new Movie
  using Microsoft.EntityFrameworkCore;
```

```
| Seedata.Initialize(services); | Seedata.Initialize(services)
```



Create New

Title	ReleaseDate	Genre	Price	
When Harry Met Sally	2/12/1989	Romantic Comedy	7.99	Edit Details Delete
Ghostbusters	3/13/1984	Comedy	8.99	Edit Details Delete
Ghostbusters 2	2/23/1986	Comedy	9.99	Edit Details Delete
Rio Bravo	4/15/1959	Western	3.99	Edit Details Delete

```
⊡using System.ComponentModel.DataAnnotations;
      using System.ComponentModel.DataAnnotations;
      using System.ComponentModel.DataAnnotations.Schema;
     mamespace Lab01.NetCore.Models
      {
           public class Movie
     白
               public int Id { get; set; }
               public string? Title { get; set; }
11
               [Display(Name = "Release Date")]
12
13
               [DataType(DataType.Date)]
               public DateTime ReleaseDate { get; set; }
14
               public string? Genre { get; set; }
               [Column(TypeName = "decimal(18, 2)")]
17
               public decimal Price { get; set; }
18
19
20
```

Edit

Movie

Title	
Ghostbusters	
Release Date	
03/07/1984	
Genre	
Comedy	
Price	
dsadsa	
The field Price must be a number. Save Back to List	

```
@model IEnumerable<Lab01.NetCore.Models.Movie>
     @ {
        ViewData["Title"] = "Index";
     <h1>Index</h1>
        <a asp-action="Create">Create New</a>
     [4/p]
11
    Title: <input type="text" name="SearchString" />
           <input type="submit" value="Filter" />
    p
20
        <thead>
    自
    @Html.DisplayNameFor(model => model.Title)
              @Html.DisplayNameFor(model => model.ReleaseDate)
              .
               @Html.DisplayNameFor(model => model.Genre)
              @Html.DisplayNameFor(model => model.Price)
              </thead>
    d d
        □@foreach (var item in Model) {
    自
```

```
I.NetCore
                                                                     *LabUI.NetCore.Controllers.Movies
        using Microsoft.EntityFrameworkCore;
        using Lab01.NetCore.Data;
        using Lab01.NetCore.Models;
       □namespace Lab01.NetCore.Controllers
      E P
 12
            public class MoviesController : Controller
                private readonly Lab01NetCoreContext _context;
                public MoviesController(Lab01NetCoreContext context)
                    _context = context;
                // GET: Movies
                public async Task<IActionResult> Index(string searchString)
                    var movies = from m in _context.Movie
                                  select m;
                    if (!String.IsNullOrEmpty(searchString))
 29
                        movies = movies.Where(s => s.Title!.Contains(searchString));
                    return View(await movies.ToListAsync());
 33
                // GET: Movies/Details/5
                public async Task<IActionResult> Details(int? id)
                    if (id == null || _context.Movie == null)
                        return NotFound();
                     var movie = await _context.Movie
                         .FirstOrDefaultAsync(m => m.Id == id);
```

Create New

Title: Rio Filter

Create New

Title: Filter

Title	Release Date	Genre	Price	
Rio Bravo	4/15/1959	Western	3.99	Edit Details Delete

```
Busing Microsoft.AspNetCore.Mvc.Rendering;
using System.Collections.Generic;

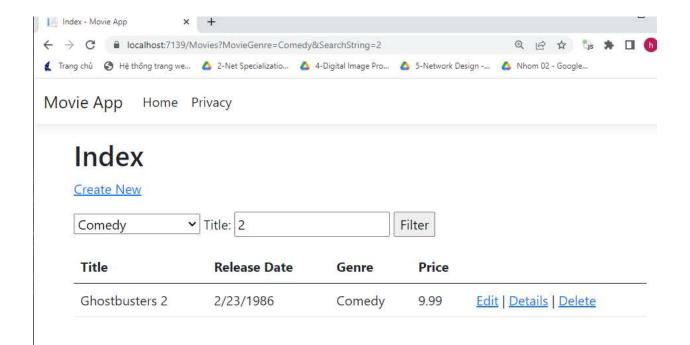
Inamespace Lab01.NetCore.Models

{
    public class MovieGenreViewModel

    public List<Movie>? Movies { get; set; }
    public SelectList? Genres { get; set; }
    public string? MovieGenre { get; set; }
    public string? SearchString { get; set; }
}
```

```
public class MoviesController : Controller
               private readonly Lab01NetCoreContext _context;
               public MoviesController(Lab01NetCoreContext context)
               {
                   _context = context;
               }
    中
               public async Task<IActionResult> Index(string movieGenre, string searchString)
                   IQueryable<string> genreQuery = from m in _context.Movie
                                                   orderby m. Genre
                                                   select m. Genre;
                   var movies = from m in _context.Movie
                                select m;
                   if (!string.IsNullOrEmpty(searchString))
                       movies = movies.Where(s => s.Title!.Contains(searchString));
35
                   if (!string.IsNullOrEmpty(movieGenre))
                       movies = movies.Where(x => x.Genre == movieGenre);
                   var movieGenreVM = new MovieGenreViewModel
                       Genres = new SelectList(await genreQuery.Distinct().ToListAsync()),
                       Movies = await movies.ToListAsync()
                   };
                   return View(movieGenreVM);
```

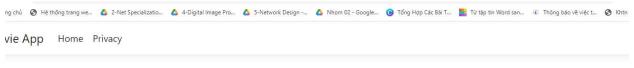
```
@model Lab01.NetCore.Models.MovieGenreViewModel
 0{
    ViewData["Title"] = "Index";
 <h1>Index</h1>
⊟>
  <a asp-action="Create">Create New</a>
<select asp-for="MovieGenre" asp-items="Model.Genres">
φ.
         <option value="">All</option>
       Title: <input type="text" asp-for="SearchString" />
       <input type="submit" value="Filter" />
⊟
-0-0-0
    <thead>
              @Html.DisplayNameFor(model => model.Movies[0].Title)
           白
            @Html.DisplayNameFor(model => model.Movies[0].ReleaseDate)
           ₫
              @Html.DisplayNameFor(model => model.Movies[0].Genre)
           @Html.DisplayNameFor(model => model.Movies[0].Price)
```



```
ab01.NetCore
                                                           - 🔑 Title

    → Cab01.NetCore.Models.Movie

          ⊟using System;
           using System.ComponentModel.DataAnnotations;
           using System.ComponentModel.DataAnnotations.Schema;
          □namespace Lab01.NetCore.Models
           {
                public class Movie
          public int Id { get; set; }
                    public string? Title { get; set; }
    11
    12
                    [Display(Name = "Release Date")]
                    [DataType(DataType.Date)]
    13
                    public DateTime ReleaseDate { get; set; }
                    public string? Genre { get; set; }
                    [Column(TypeName = "decimal(18, 2)")]
    17
                    public decimal Price { get; set; }
                    public string? Rating { get; set; }
    19
    20
    22
```



Create New



Release Date	Genre	Price	Rating	
2/12/1989	Romantic Comedy	10.00	R	Edit Details Delete
3/13/1984	Comedy	8.99	R	Edit Details Delete
2/23/1986	Comedy	9.99	R	Edit Details Delete
4/15/1959	Western	3.99	R+	Edit Details Delete
	2/12/1989 3/13/1984 2/23/1986	2/12/1989 Romantic Comedy 3/13/1984 Comedy 2/23/1986 Comedy	2/12/1989 Romantic Comedy 10.00 3/13/1984 Comedy 8.99 2/23/1986 Comedy 9.99	2/12/1989 Romantic Comedy 10.00 R 3/13/1984 Comedy 8.99 R 2/23/1986 Comedy 9.99 R

^{© 2022 -} Lab01.NetCore - Privacy

```
⊡using System;
       using System.ComponentModel.DataAnnotations;
       using System.ComponentModel.DataAnnotations.Schema;
     □namespace Lab01.NetCore.Models
       {
           public class Movie
     白
               public int Id { get; set; }
10
               [StringLength(60, MinimumLength = 3)]
11
               [Required]
12
               public string? Title { get; set; }
13
               [Display(Name = "Release Date")]
               [DataType(DataType.Date)]
               public DateTime ReleaseDate { get; set; }
17
               [RegularExpression(@"^[A-Z]+[a-zA-Z\s]*$")]
               [Required]
20
               [StringLength(30)]
21
               public string? Genre { get; set; }
22
23
               [Range(1, 100)]
24
               [Column(TypeName = "decimal(18, 2)")]
25
               public decimal Price { get; set; }
27
               [RegularExpression(0^{-[A-Z]+[a-zA-Z0-9""'\s-]*$")]
28
               [StringLength(5)]
               [Required]
               public string? Rating { get; set; }
32
34
```

Create

Movie

Title
S
The field Title must be a string with a minimum length of 3 and a maximum length of 60. Release Date
mm/dd/yyyy
The Release Date field is required. Genre
ds
The field Genre must match the regular expression '^[A-Z]+[a-zA-Z\s]*\$'. Price
Z
The field Price must be a number. Rating
đa
The field Rating must match the regular expression '^[A-Z]+[a-zA-Z0-9"'\s-]*\$'. Create Back to List

Create

Movie

Title	
Thor	
Release Date	
01/18/2022	
Genre	
Fantasy	
Price	
10.20	
Rating	
R	
Create	
Back to List	

Create New



```
return RedirectToAction(nameof(Index));
136
138
                    return View(movie);
139
                // GET: Movies/Delete/5
                public async Task<IActionResult> Delete(int? id)
                    if (id == null || _context.Movie == null)
                    {
                        return NotFound();
                    var movie = await _context.Movie
                        .FirstOrDefaultAsync(m => m.Id == id);
                    if (movie == null)
                    {
                        return NotFound();
                    return View(movie);
                // POST: Movies/Delete/5
                [HttpPost, ActionName("Delete")]
                [ValidateAntiForgeryToken]
                public async Task<IActionResult> DeleteConfirmed(int id)
                    if (_context.Movie == null)
                        return Problem("Entity set 'Lab01NetCoreContext.Movie' is null.");
                    var movie = await _context.Movie.FindAsync(id);
                    if (movie != null)
```

```
154
                    return View(movie);
                // POST: Movies/Delete/5
                [HttpPost, ActionName("Delete")]
                [ValidateAntiForgeryToken]
                public async Task<IActionResult> DeleteConfirmed(int id)
                    if (_context.Movie == null)
                    {
                        return Problem("Entity set 'Lab01NetCoreContext.Movie' is null.");
                    var movie = await _context.Movie.FindAsync(id);
                    if (movie != null)
                    {
                        _context.Movie.Remove(movie);
                    await _context.SaveChangesAsync();
                    return RedirectToAction(nameof(Index));
                private bool MovieExists(int id)
                  return _context.Movie.Any(e => e.Id == id);
                                                                       readonly struct System.Int32
                                                                       Represents a 32-bit signed integer.
       1
```

Delete

Are you sure you want to delete this?

Movie

Title Thor

Release Date 1/18/2022

Genre Fantasy

Price 10.20

