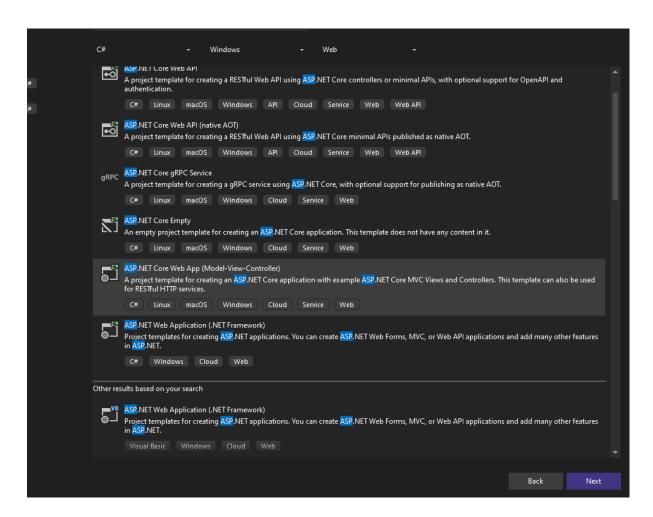
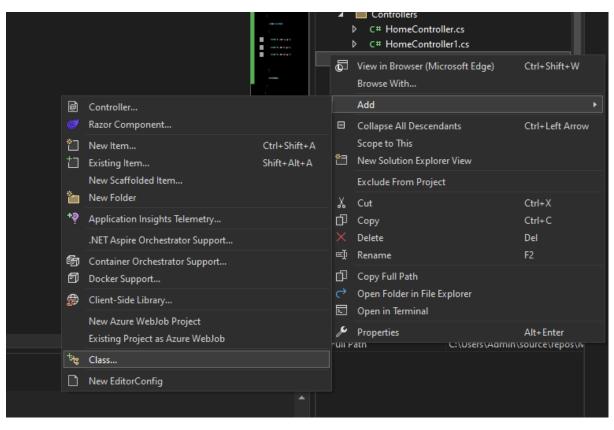
Roll No: 40 Div: A

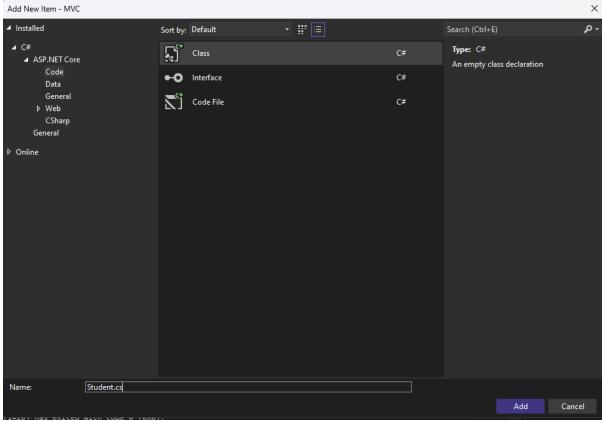
1. MVC Application With Model view controller



Roll No: 40 Div: A

Right click on model



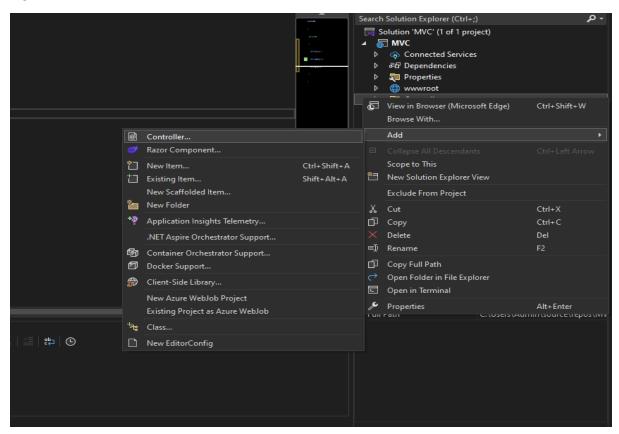


Roll No: 40 Div: A

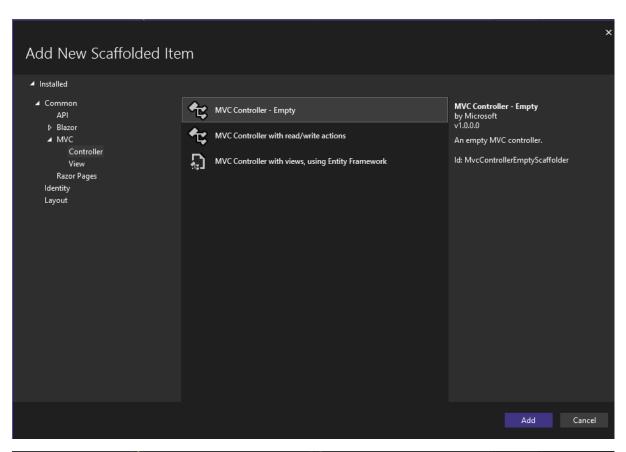
Student.cs

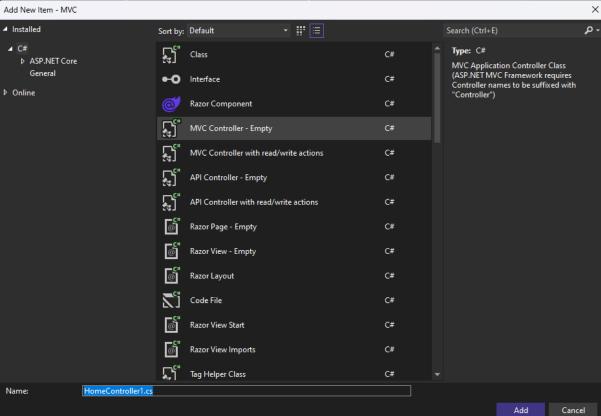
```
namespace MVC.Models
{
    public class Student
    {
        public int Id { get; set; }
        public string Name { get; set; }
        public int Age { get; set; }
    }
}
```

Right click on Controller



Roll No: 40 Div: A



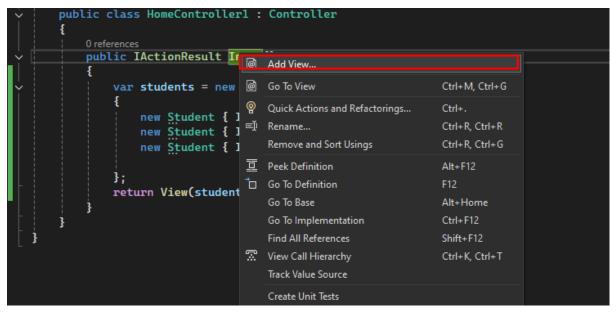


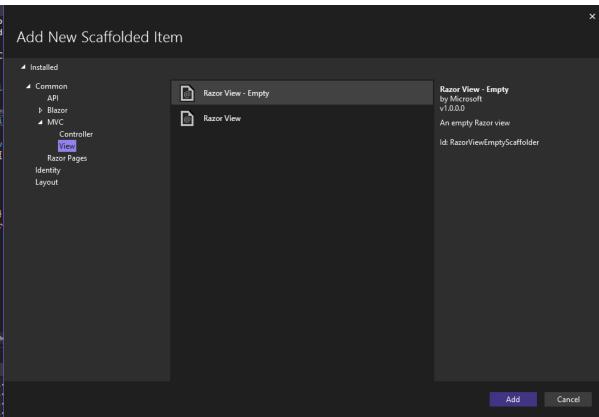
Roll No: 40 Div: A

HomeController1.cs

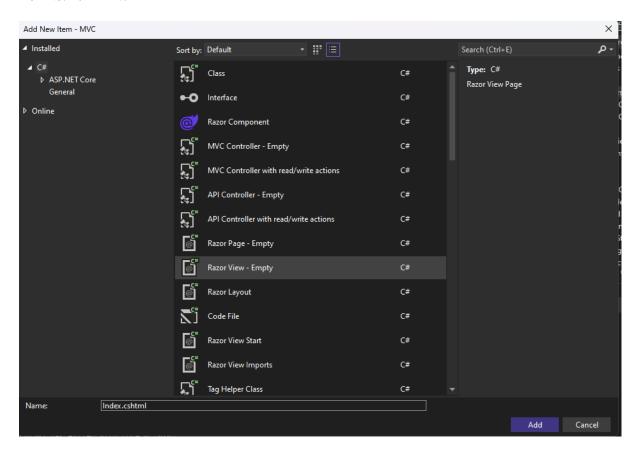
Right click on Index

Roll No: 40 Div: A





Roll No: 40 Div: A



Index.cshtml

```
For more information on enabling MVC for empty projects, visit
https://go.microsoft.com/fwlink/?LinkID=397860
*@
@ {
   @model List<MVC.Models.Student>
   <h2>Student List</h2>
   ID
         Name
         Age
      @foreach(var student in Model)
         @student.Id
            @student.Name
            @student.Age
         }
   }
```

Roll No: 40 Div: A

Write our controller name

```
v app.MapControllerRoute(
     name: "default",
   pattern: "{controller=HomeController1}/{action=Index}/{id?}");
  app.Run();
```

Output:

MVC Home Privacy

Student List

ID Name Age

- 1 Raj 21 2 Avi 21
- 3 Amol 21

Name: Rajvardhan Ganpatrao Patil Roll No: 40 Div: A

2. MVC Application for customer data entry using data annotations for validation and display appropriate error messages.

Models\Customer.cs

```
using System.ComponentModel.DataAnnotations;
namespace unit6.Models
    public class Customer
        public int Id { get; set; }
        [Required(ErrorMessage = "Name is required")]
        [StringLength (50, ErrorMessage = "Name cannot exceed 50 charactors")]
        public required string Name { get; set; }
        [Required(ErrorMessage = "Email is required")]
        [EmailAddress(ErrorMessage = "Invalid email format")]
        public required string Email { get; set; }
        [Required(ErrorMessage = "Phone number is required")]
        [RegularExpression(@"^\d{10}$", ErrorMessage = "Phone number must be 10
digits") 1
        public required string Phone { get; set; }
        [Required (ErrorMessage = "Address is required")]
        [StringLength(100, ErrorMessage = "Address cannot exceed 100
charactors")]
        public required string Address { get; set; }
        [Required (ErrorMessage = "Pincode is required")]
        [RegularExpression(@"^\d{6}$", ErrorMessage = "Pincode must be 6
digit")1
        public required string PinCode { get; set; }
    }
}
Controllers\CustomerController.cs
using Microsoft.AspNetCore.Mvc;
using unit6. Models;
namespace unit6.Controllers
    public class CustomerController : Controller
        private static readonly List<Customer> customer = new List<Customer>();
        public IActionResult Index()
            return View(customer);
        public IActionResult Create()
            return View();
        [HttpPost]
        public IActionResult Create(Customer cust)
```

if (ModelState.IsValid)

```
<h2>Customer List</h2>
ID
     Name
     Email
     Phone
     Address
  @foreach (var customer in Model)
  {
     \langle t.r \rangle
        @customer.Id
        @customer.Name
        @customer.Email
        @customer.Phone
        @customer.Address
     <a href="/Customer/Create">Add New Customer</a>
```

Customer\Create.cshtml

```
@model unit6.Models.Customer
@ {
    ViewData["Title"] = "Create";
<h1>Create</h1>
<h4>Customer</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="Id" class="control-label"></label>
                <input asp-for="Id" class="form-control" />
                <span asp-validation-for="Id" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Name" class="control-label"></label>
```

```
<input asp-for="Name" class="form-control" />
                <span asp-validation-for="Name" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Email" class="control-label"></label>
                <input asp-for="Email" class="form-control" />
                <span asp-validation-for="Email" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Phone" class="control-label"></label>
                <input asp-for="Phone" class="form-control" />
                <span asp-validation-for="Phone" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="Address" class="control-label"></label>
                <input asp-for="Address" class="form-control" />
                <span asp-validation-for="Address" class="text-danger"></span>
            </div>
            <div class="form-group">
                <label asp-for="PinCode" class="control-label"></label>
                <input asp-for="PinCode" class="form-control" />
                <span asp-validation-for="PinCode" class="text-danger"></span>
            </div>
            <div class="form-group">
                <input type="submit" value="Create" class="btn btn-primary" />
            </div>
        </form>
    </div>
</div>
<div>
    <a asp-action="Index">Back to List</a>
</div>
@section Scripts {
    @{await Html.RenderPartialAsync(" ValidationScriptsPartial");}
}
unit6\Program.cs
var builder = WebApplication.CreateBuilder(args);
// Add services to the container.
builder.Services.AddControllersWithViews();
var app = builder.Build();
// Configure the HTTP request pipeline.
if (!app.Environment.IsDevelopment())
    app.UseExceptionHandler("/Home/Error");
    // The default HSTS value is 30 days. You may want to change this for
production scenarios, see https://aka.ms/aspnetcore-hsts.
   app.UseHsts();
}
app. UseHttpsRedirection();
app.UseStaticFiles();
app.UseRouting();
app. UseAuthorization();
```

Roll No: 40 Div: A

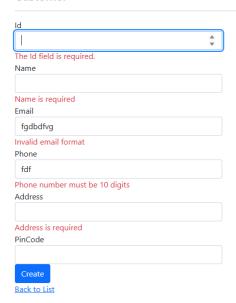
```
app.MapControllerRoute(
   name: "default",
   pattern: "{controller=Customer}/{action=Index}/{id?}");
app.Run();
```

Output:

unit6 Home Privacy

Create

Customer



Roll No: 40 Div: A

unith Home Privac	unit6	Home	Privac
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Create

Customer

Id
1
Name
Rajvardhan
Email
rajpatil24@gmail.com
Phone
9876543211
Address
kolhapur
PinCode
543244
Create
Back to List

© 2025 - unit6 - Privacy

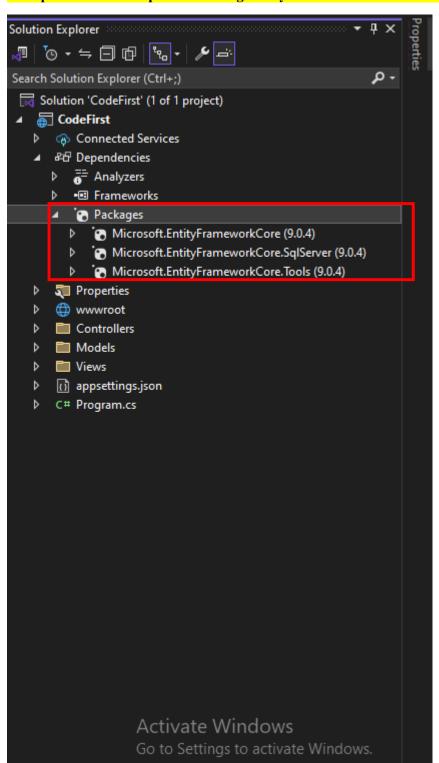
unit6 Home Privacy

Customer List

| ID Name Email Phone Address | 1 Rajvardhan rajpatil 24@gmail.com 9876543211 kolhapur | Add New Customer

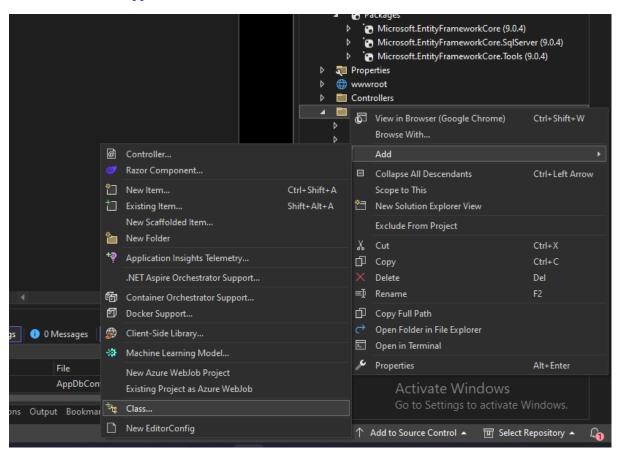
Roll No: 40 Div: A

3. Implement CRUD operations using Entity Framework Code-First approach for emp data.



Roll No: 40 Div: A

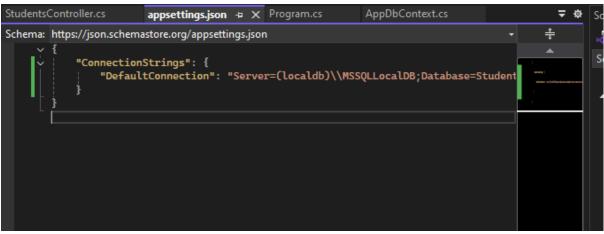
Create model class AppDbContext

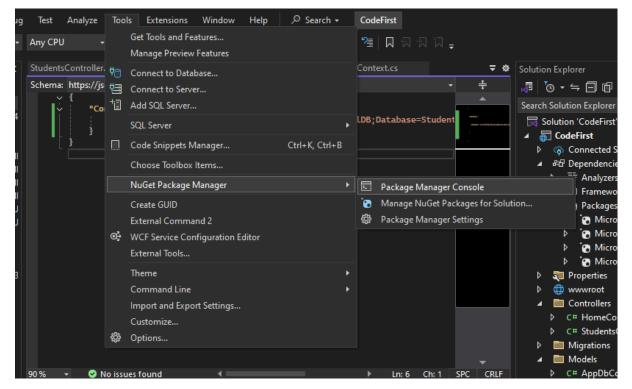


```
Name: Rajvardhan Ganpatrao Patil
Roll No: 40 Div: A

Appsettings.json

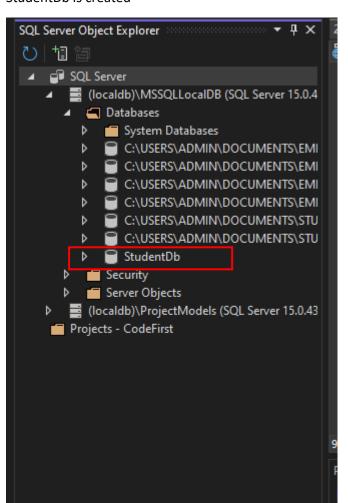
{
    "ConnectionStrings": {
        "DefaultConnection":
    "Server=(localdb)\\MSSQLLocalDB;Database=StudentDb;Trusted_Connection=True;"
    }
}
```





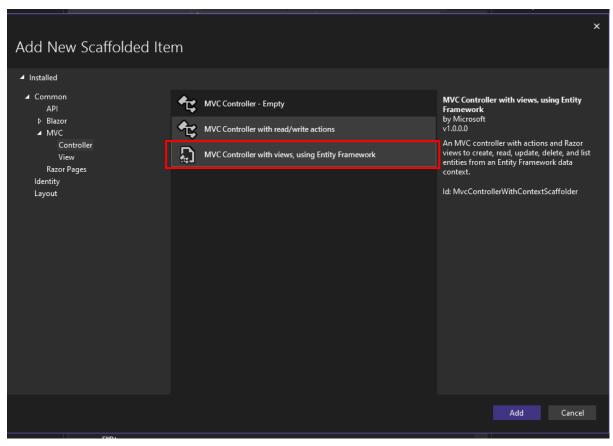
Roll No: 40 Div: A

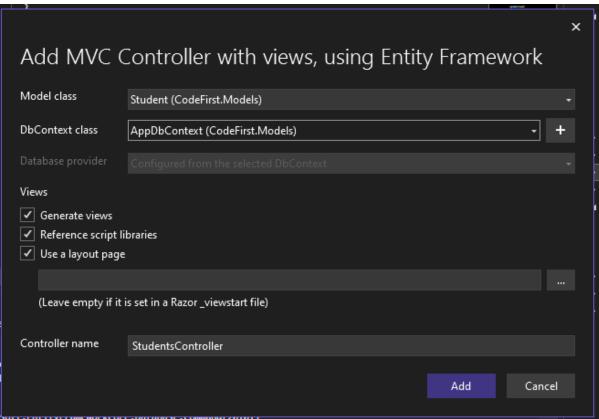
StudentDb is created



Roll No: 40 Div: A

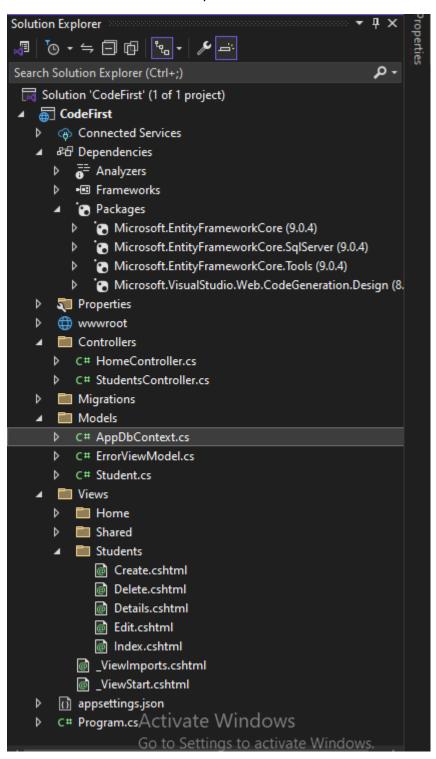
Create Controller





Roll No: 40 Div: A

View and controller automatically created



Roll No: 40 Div: A

Change controller name in program.cs

Output:

Home page:

CodeFirst Home Privacy

Index

Create New

Name	Email	Contactno	
Rajvardhan	raj@gmail.com	987654321	Edit Details Delete

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Activate Windows
Go to Settings to activate Window

Create page:

CodeFirst Home Privacy

Create

Student

Name

Email

Contactno

Create
Back to List

Roll No: 40 Div: A

Data inserted successfully:

CodeFirst Home Privacy

Index

Create New

Name	Email	Contactno	
Rajvardhan	raj@gmail.com	987654321	Edit Details Delete
Amol	amol@gmail.com	58494968	Edit Details Delete

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Activate Windows
Go to Settings to activate Windows.

Edit page:

CodeFirst Home Privacy

Edit

Student

Name
Rajvardhan

Email
raj24@gmail.com

Contactno
987654321

Save

Back to List

Activate Windows
Go to Settings to activate W

Roll No: 40 Div: A

Details Page:

CodeFirst Home Privacy

Details

Student

NameRajvardhanEmailraj24@gmail.comContactno987654321

Edit | Back to List

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Activate Windows
Go to Settings to activate Windows.

Delete Page:

CodeFirst Home Privacy

Delete

Are you sure you want to delete this?

Student

Name Amol

Email amol@gmail.com
Contactno 58494968

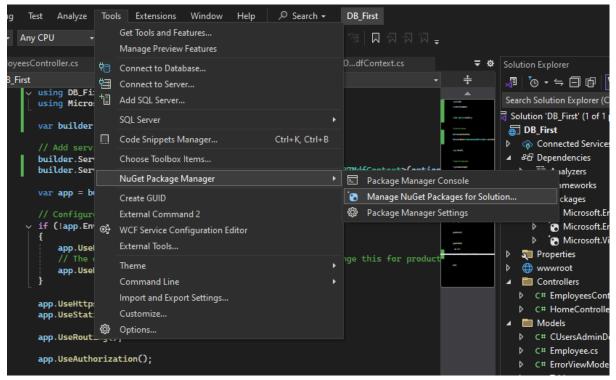
Delete Back to List

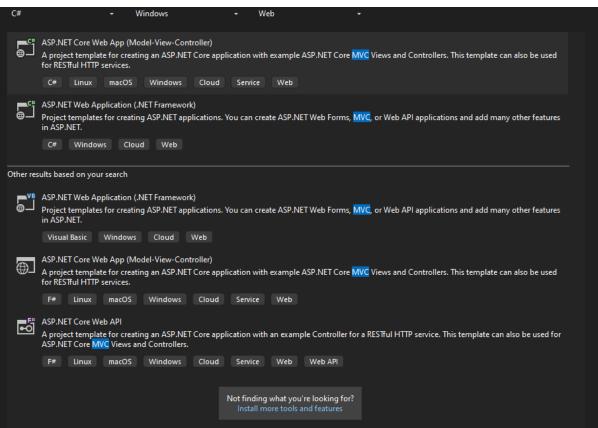
Activate Windows Go to Settings to activate Window

Roll No: 40 Div: A

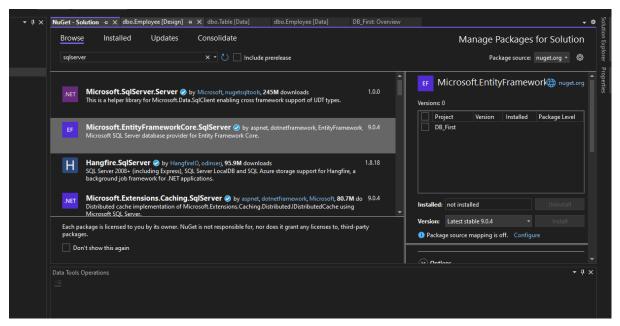
4. ASP.NET Core MVC with EF Core DB First

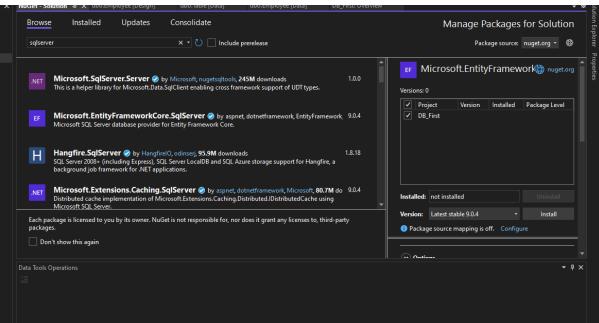
Install Pakages



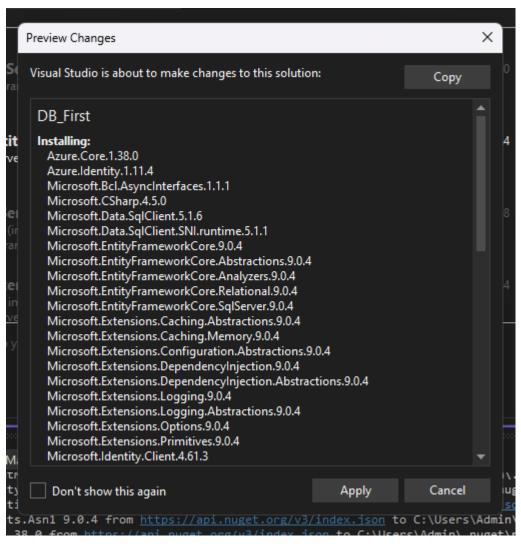


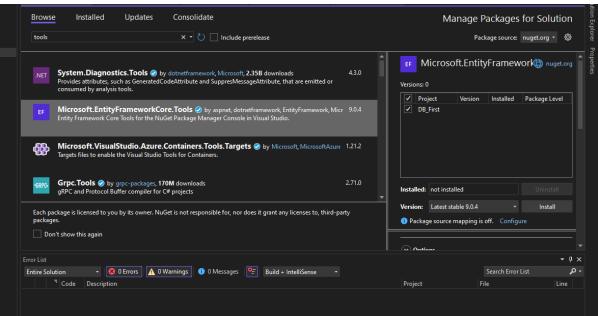
Roll No: 40 Div: A





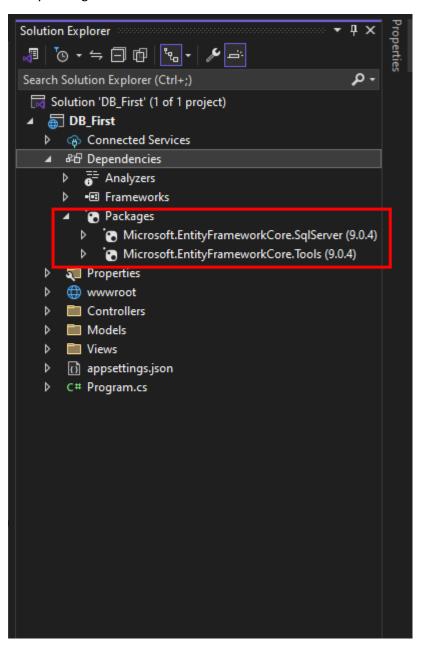
Roll No: 40 Div: A





Roll No: 40 Div: A

Verify Packages are installed

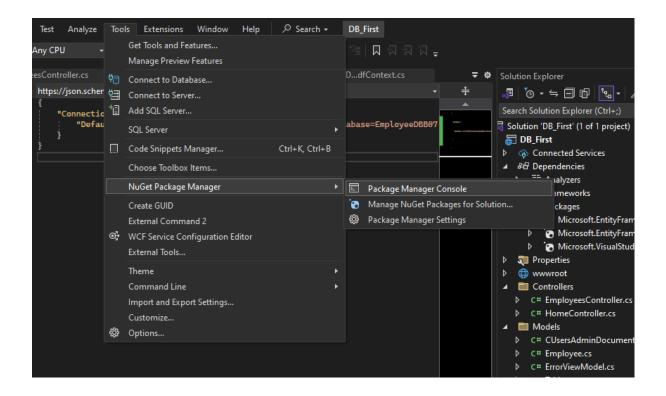


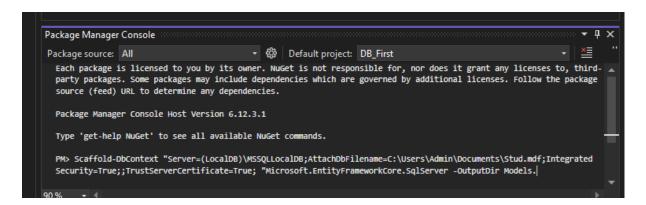
Roll No: 40 Div: A

Scaffold-DbContext

"Server=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\Admin\Documents\Stud.mdf;Integra ted Security=True;;TrustServerCertificate=True; "Microsoft.EntityFrameworkCore.SqlServer - OutputDir Models.

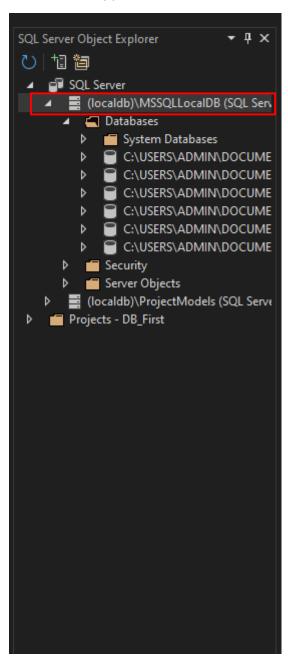
builder.Services.AddDbContext<YourDbContext>(options =>
 options.UseSqlServer(builder.Configuration.GetConnectionString("DefaultConnection")));



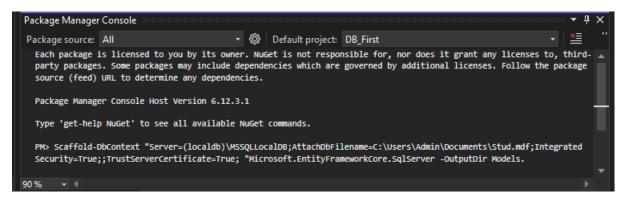


Roll No: 40 Div: A

Change Server: Go into view-> sql server object explorer -> copy the sql server name (right click rename then copy)

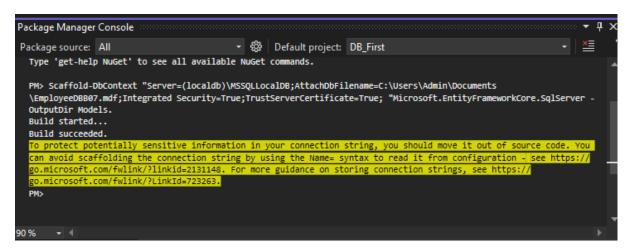


Change AttachDbFilename: copy the db connection string in that copy only path

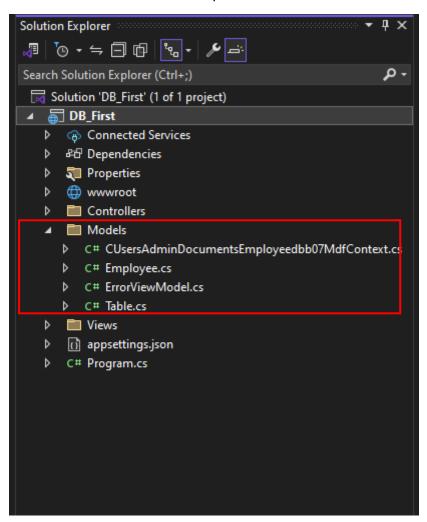


Roll No: 40 Div: A

Press Enter

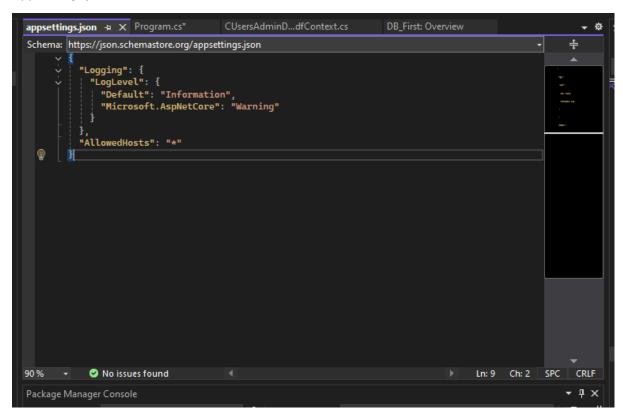


The classes is created automatically in model and view is also automatically created



Roll No: 40 Div: A

Appsettings.json

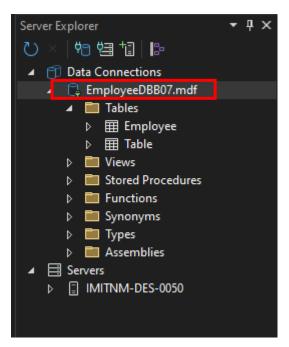


"ConnectionStrings": {

}

"DefaultConnection": "Server=.;Database=YourDbName;Trusted_Connection=True;"

Write the server name and write the database name

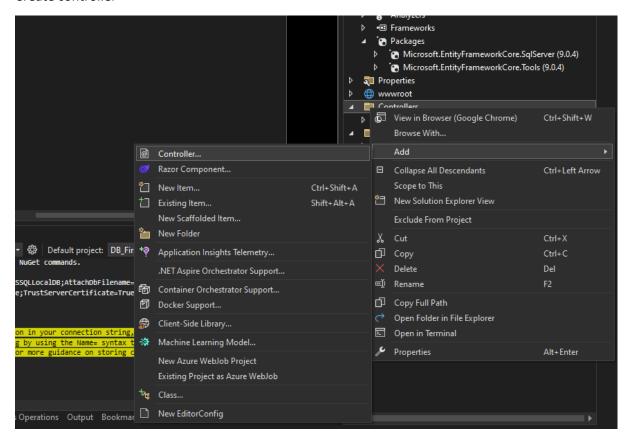


Roll No: 40 Div: A

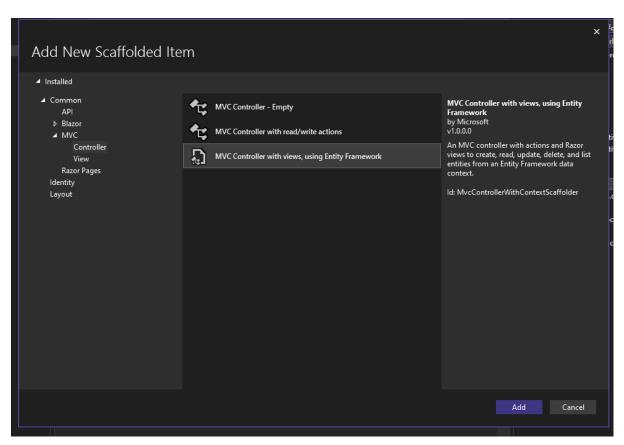
```
a: https://json.schemastore.org/appsettings.json

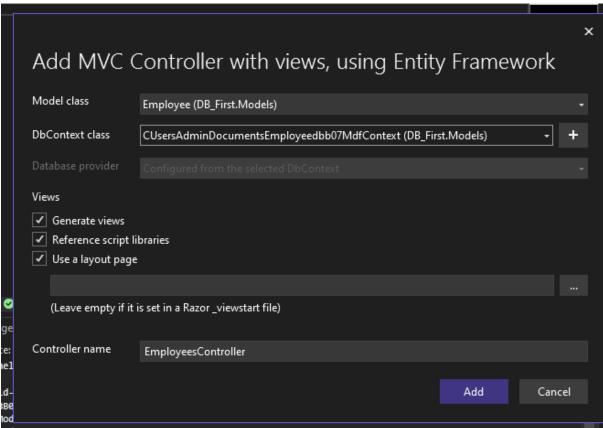
{
    "ConnectionStrings": {
        "DefaultConnection": "Server=(localdb)\\MSSQLLocalDB;Database=EmployeeDBB07
    }
}
```

Create controller



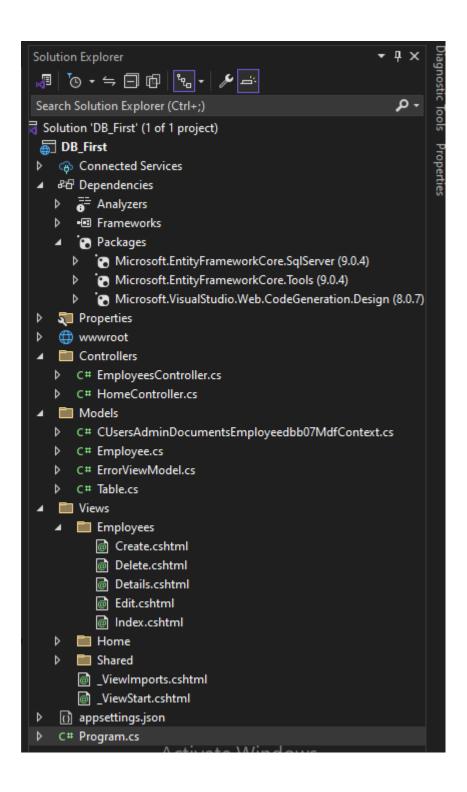
Roll No: 40 Div: A





Roll No: 40 Div: A

Created controller and view automatically



Roll No: 40 Div: A

Output:

DB_First Home Privacy

Index

Create New

FirstName LastName Designation Salary

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Activate Windows
Go to Settings to activate Window

Create:

DB_First Home Privacy

Create

Employee



Activate Windows

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Roll No: 40 Div: A

Record inserted successfully:

DB_First Home Privacy

Index

Create New

FirstName	LastName	Designation	Salary	
Rajvardhan	Patil	Student	0	Edit Details Delete

© 2025 - DB_First - Privacy

Activate Windows
Go to Settings to activate Windows.

Details Page:

Details

Employee

FirstName Rajvardhan

LastName Patil

Designation Student

Salary 0

Edit | Back to List

Roll No: 40 Div: A

Delete Page:

Delete

Are you sure you want to delete this?

Employee

FirstName Rajvardhan

LastName Patil

Designation Student

Salary 0

