**program.cs**

```
using Microsoft.EntityFrameworkCore;
using Microsoft.OpenApi.Models;
using MyApiApp.Context;

var builder = WebApplication.CreateBuilder(args);

builder.Services.AddControllers();
builder.Services.AddEndpointsApiExplorer();
builder.Services.AddSwaggerGen(c =>
{
    c.SwaggerDoc("v1", new OpenApiInfo { Title = "Pet API", Version = "v1" });
});
builder.Services.AddDbContext<AppDbContext>(options =>

options.UseSqlServer(builder.Configuration.GetConnectionString("DefaultConnection"))
);

var app = builder.Build();


if (app.Environment.IsDevelopment())
{
    app.UseSwagger();
    app.UseSwaggerUI(c =>
    {
        c.SwaggerEndpoint("/swagger/v1/swagger.json", "Pet API V1");
        c.RoutePrefix = "docs";
    });
}

app.UseHttpsRedirection();
app.UseAuthorization();
app.MapControllers();
app.Run();
```

**appsetting.json**
```
{
  "Logging": {
```

```json
    "LogLevel": {
      "Default": "Information",
      "Microsoft.AspNetCore": "Warning"
    }
  },

  "AllowedHosts": "*",

  "ConnectionStrings": {
    "DefaultConnection": "Data Source= PTSQLTESTDB01;Initial
Catalog=Demo_Dharunya;Integrated Security=true;TrustServerCertificate=True;"
  }
}
```

**AppDbContext.cs**
```csharp
using Microsoft.EntityFrameworkCore;
using MyApiApp.Models;

namespace MyApiApp.Context
{
    public class AppDbContext : DbContext
    {
        public AppDbContext(DbContextOptions<AppDbContext> options) : base(options) {
}

        public DbSet<Pet> Pets { get; set; }
    }
}
```
**pet.cs**
```csharp
namespace MyApiApp.Models
{
    public class Pet
    {
        public int Id { get; set; }
        public string DogName { get; set; }
        public string Breed { get; set; }
        public int Age { get; set; }
    }
}
```
**PetsController.cs**
```csharp
using Microsoft.AspNetCore.Mvc;
using Microsoft.EntityFrameworkCore;
using MyApiApp.Context;
```

```csharp
using MyApiApp.Models;

namespace MyApiApp.Controllers
{
    [ApiController]
    [Route("api/[controller]")]
    public class PetsController : ControllerBase
    {
        private readonly AppDbContext appDbContext;

        public PetsController(AppDbContext context)
        {
            appDbContext = context;
        }

        [HttpGet("getpets")]
        public  IActionResult GetPets()
        {
             var petsli = appDbContext.Pets.ToList();
            return Ok(petsli);
        }

        [HttpPost("addpet")]
        public IActionResult AddPet(Pet pet)
        {
            appDbContext.Pets.Add(pet);
            appDbContext.SaveChanges();
            return Ok("pets added successfully");
        }
    }
}
```

**Curl**

```
curl -X 'GET' \
  'http://localhost:5049/api/Pets/getpets' \
  -H 'accept: */*'
```

**Request URL**

```
http://localhost:5049/api/Pets/getpets
```

**Server response**

| Code | Details |
| --- | --- |
| 200 | **Response body** |

```
[
  {
    "id": 1,
    "dogName": "scoobie",
    "breed": "pomerian",
    "age": 20
  }
]
```

**Response headers**

```
content-type: application/json; charset=utf-8
date: Mon,01 Sep 2025 12:17:36 GMT
server: Kestrel
transfer-encoding: chunked
```

**Responses**

Code       Description                                                                 Links

**Curl**

```
curl -X 'POST' \
  'http://localhost:5049/api/Pets/addpet' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
  "id": 0,
  "dogName": "bitu",
  "breed": "shitzu",
  "age": 3
}'
```

**Request URL**

```
http://localhost:5049/api/Pets/addpet
```

**Server response**

| Code | Details |
| --- | --- |
| 200 | **Response body** |

```
pets added successfully
```