Controller

```
using Microsoft.AspNetCore.Mvc;
using PetApi.Data;
using PetApi.Models;
using Microsoft.EntityFrameworkCore;
namespace PetApi.Controllers
       public DogsController(PetDbContext context)
       public async Task<ActionResult<IEnumerable<Dog>>> GetDogs()
           return await context.Dogs.ToListAsync();
        [HttpGet("GetById")]
        public async Task<ActionResult<Dog>> GetDogById(int id)
           var dog = await context.Dogs.FindAsync(id);
            if (dog == null)
                return NotFound($"Dog with Id {id} not found.");
           return Ok(dog);
```

```
GetDogByName(string name)
           var dogs = await context.Dogs
                .Where(d => d.Breed.ToLower().Contains(name.ToLower()))
                .ToListAsync();
            if (dogs == null || dogs.Count == 0)
               return NotFound($"No dogs found with name containing
           return Ok(dogs);
       [HttpPost("AddDog")]
       public async Task<ActionResult<Dog>> AddDog(Dog dog)
           context.Dogs.Add(dog);
           await context.SaveChangesAsync();
            return CreatedAtAction(nameof(GetDogById), new { id = dog.Id
}, dog);
       public async Task<IActionResult> UpdateDog(int id, Dog dog)
           if (id != dog.Id)
                return BadRequest("Dog ID mismatch.");
           var existingDog = await context.Dogs.FindAsync(id);
            if (existingDog == null)
                return NotFound($"Dog with Id {id} not found.");
           existingDog.Breed = dog.Breed;
           existingDog.Origin = dog.Origin;
           await context.SaveChangesAsync();
           return Ok(existingDog);
```

```
[HttpDelete("DeleteById")]
public async Task<IActionResult> DeleteDog(int id)
{
    var dog = await _context.Dogs.FindAsync(id);
    if (dog == null)
        return NotFound($"Dog with Id {id} not found.");

    _context.Dogs.Remove(dog);
    await _context.SaveChangesAsync();
    return Ok($"Dog with Id {id} deleted.");
}
```

DbContext

Model

```
pamespace PetApi.Models

{
    public class Dog
    {
        public int Id { get; set; }
        public string Breed { get; set; } = string.Empty;
        public string Origin { get; set; } = string.Empty;
    }
}
```

Program.cs

```
using Microsoft.EntityFrameworkCore;
using PetApi.Data;
using Microsoft.OpenApi.Models;
var builder = WebApplication.CreateBuilder(args);
builder.Services.AddControllers();
builder.Services.AddEndpointsApiExplorer();
builder.Services.AddSwaggerGen();
builder.Services.AddOpenApi();
builder.Services.AddDbContext<PetDbContext>(options =>
options.UseSqlServer(builder.Configuration.GetConnectionString("DefaultCon
nection")));
var app = builder.Build();
if (app.Environment.IsDevelopment())
app.UseSwagger();
app.UseSwaggerUI();
app.UseHttpsRedirection();
app.MapControllers();
app.Run();
```

ScreenShots





```
Request URL

http://localhost:5071/api/Dogs/GetById?id=1

Server response

Code Details

200

Response body

{
    "id": 1,
    "breed": "Retriever",
    "origin": "Golden"
}
```







