



Asp.Net ile Web Programlama

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**Bölüm
7**

EF Core ile CRUD

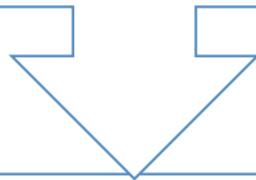
Giriş

İçerik

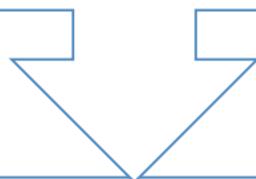
- EntityFramework Core Kurulumları
- DbContext ve DbSet
- IEntityConfiguration
- ModelBuilder
- Fluent API
- ToTable, HasKey, Property, HasIndex, HasData
- Migrations
- Development ve Production Yapılandırması

Veritabanı

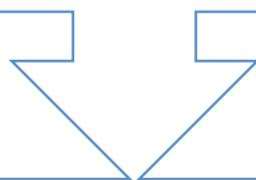
Modern yazılım için temel bileşen



Dosya sistemlerine göre üstünlük



Performans, güvenilirlik ve bütünlük



Sürdürülebilirlik ve ölçülebilirlik

Veritabanı

Performans

Güvenirlilik

Bütünlük

Veritabanı Bileşenleri

Tablo

Satır

Sütun

Komut seti

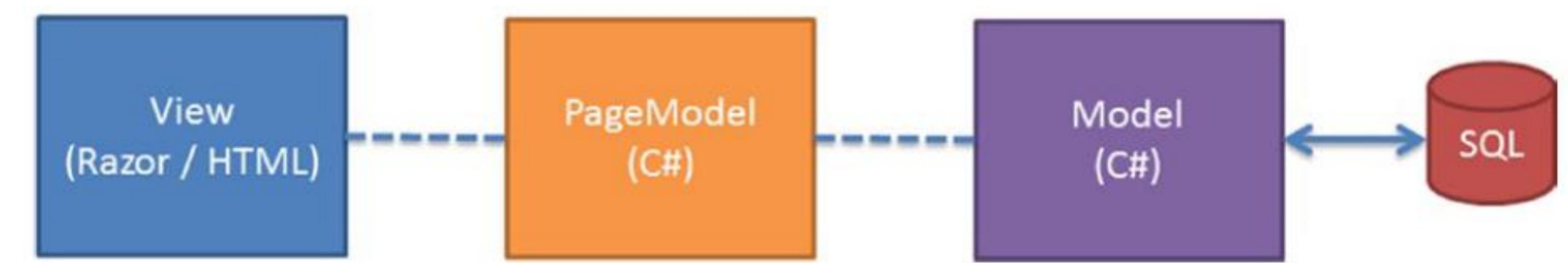
DDL

DML

DCL



Razor Pages



Fluent API



Programatik model yapılandırma

Esnek ve merkezi yönetim

Karmaşık ilişkiler desteği

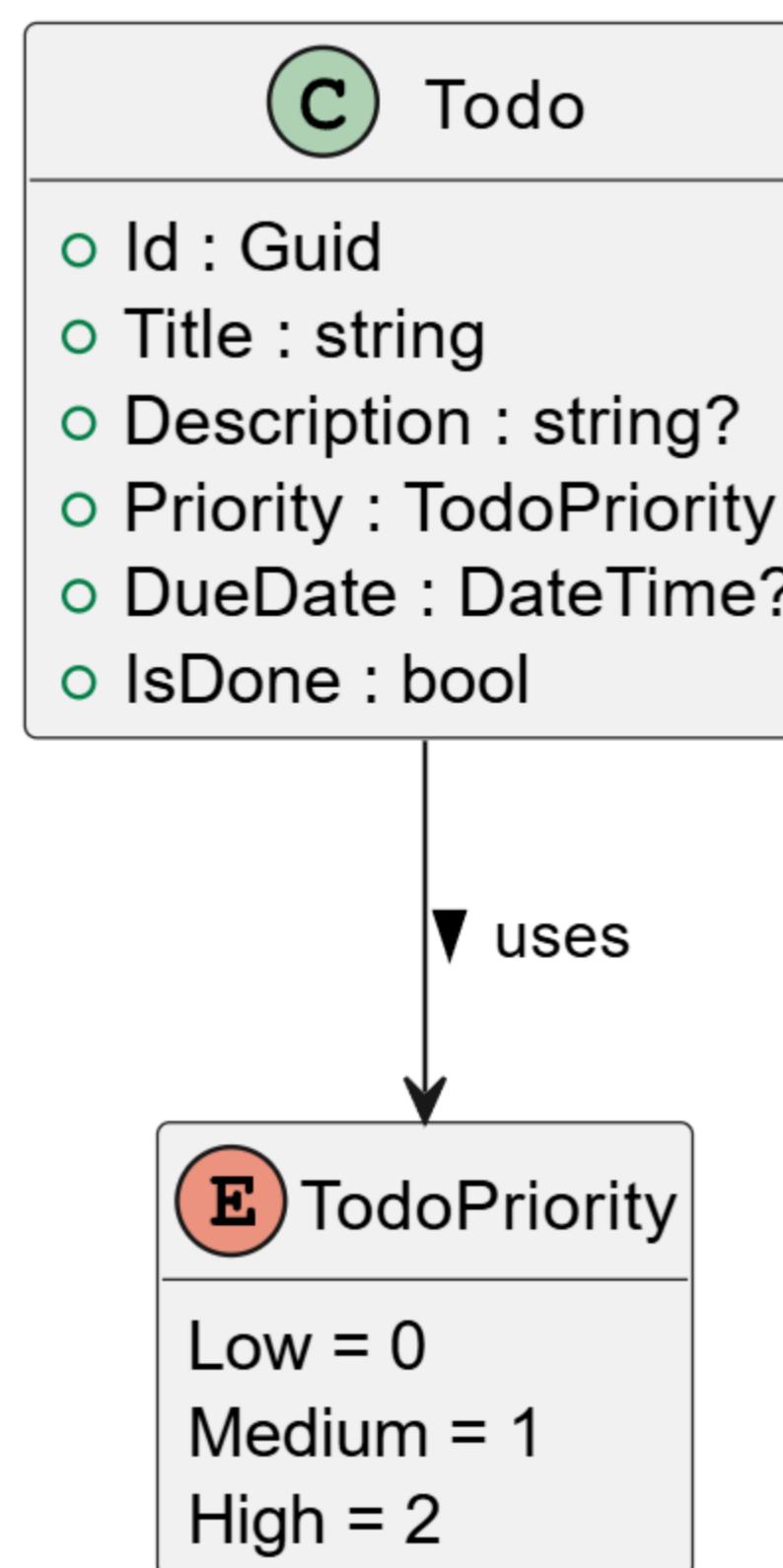
Veritabanı bağımsızlığı

İleri seviye özellikler

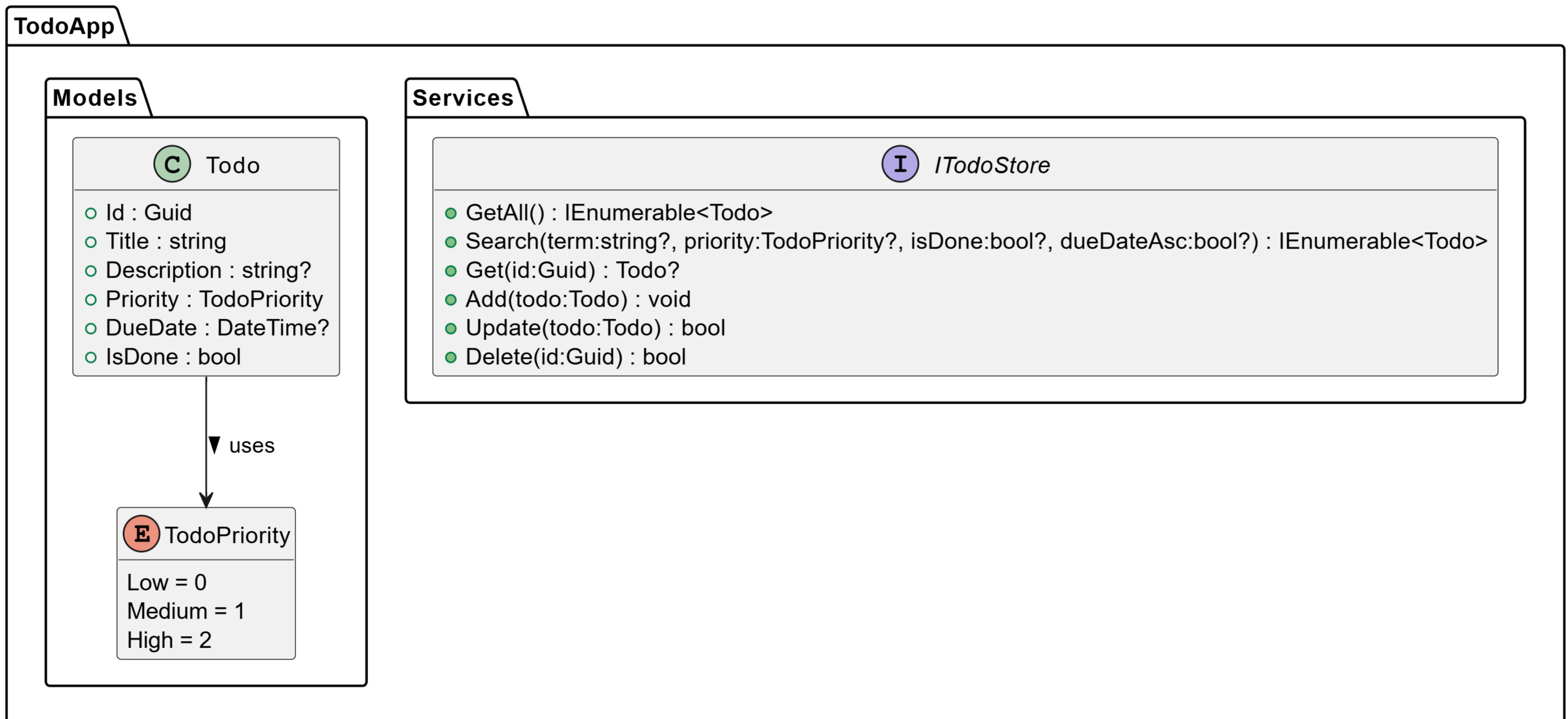
```
1 builder.ToTable("Todos");
2         builder.HasKey(x => x.Id);
3
4     builder.Property(x => x.Title)
5         .IsRequired()
6         .HasMaxLength(200);
7
8     builder.Property(x => x.Description)
9         .HasMaxLength(1000);
10
11    builder.Property(x => x.Priority)
12        .HasConversion<int>()
13        .HasDefaultValue(TodoPriority.Low)
14        .IsRequired();
15
16    builder.Property(x => x.DueDate);
17    builder.Property(x => x.IsDone)
18        .HasDefaultValue(false)
19        .IsRequired();
```

Models

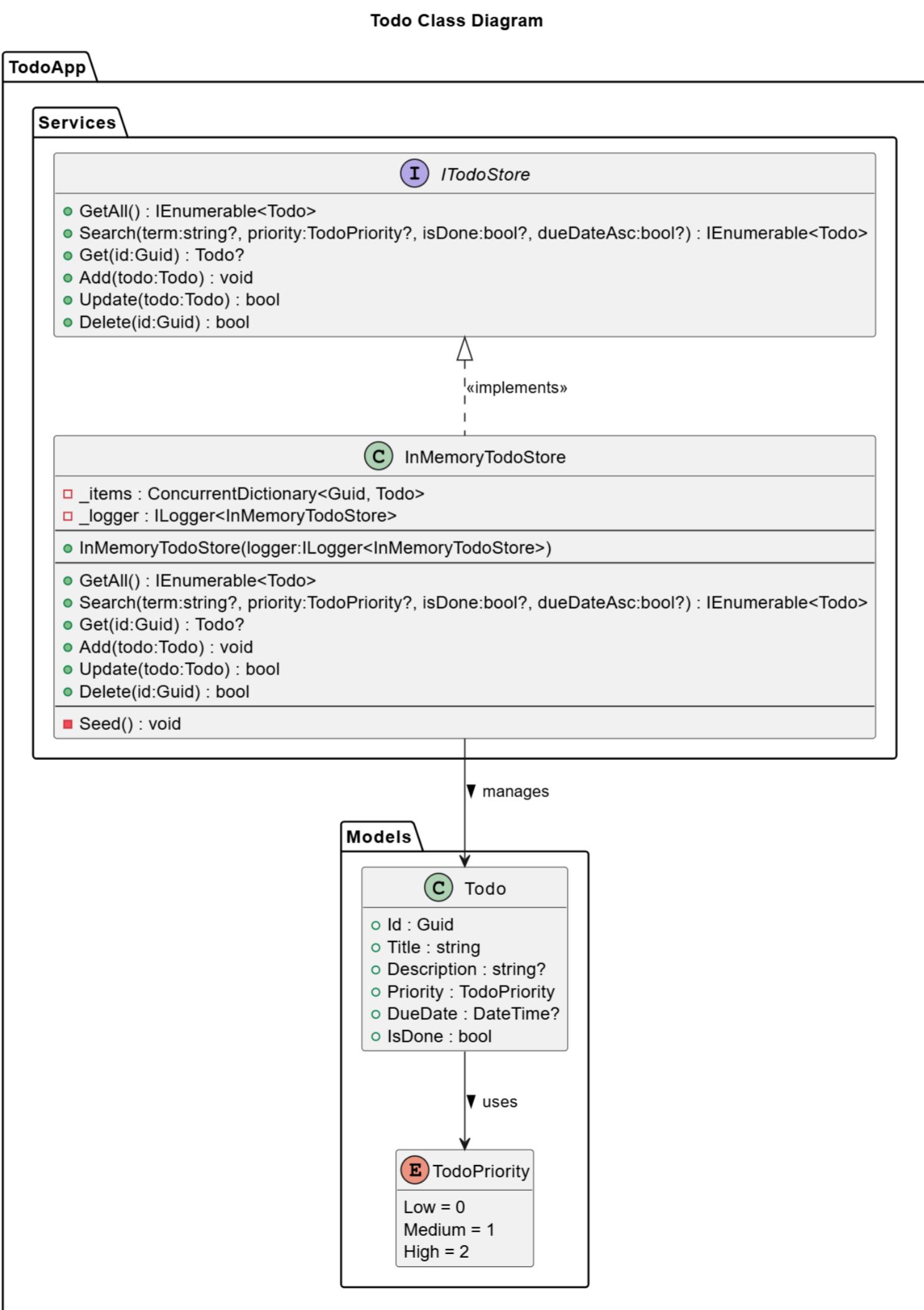
Todo Class Diagram



Todo Class Diagram

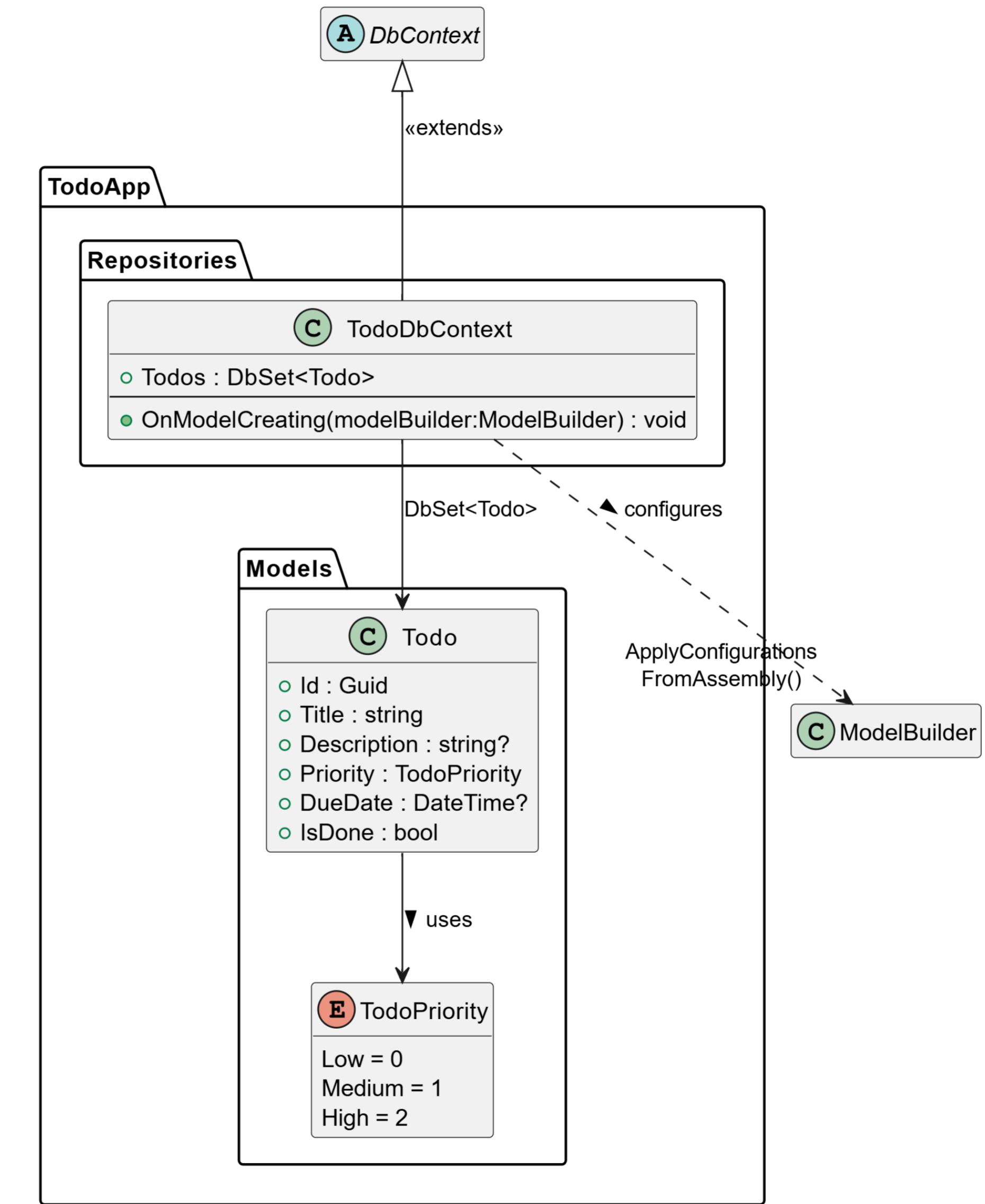


Models ve Services



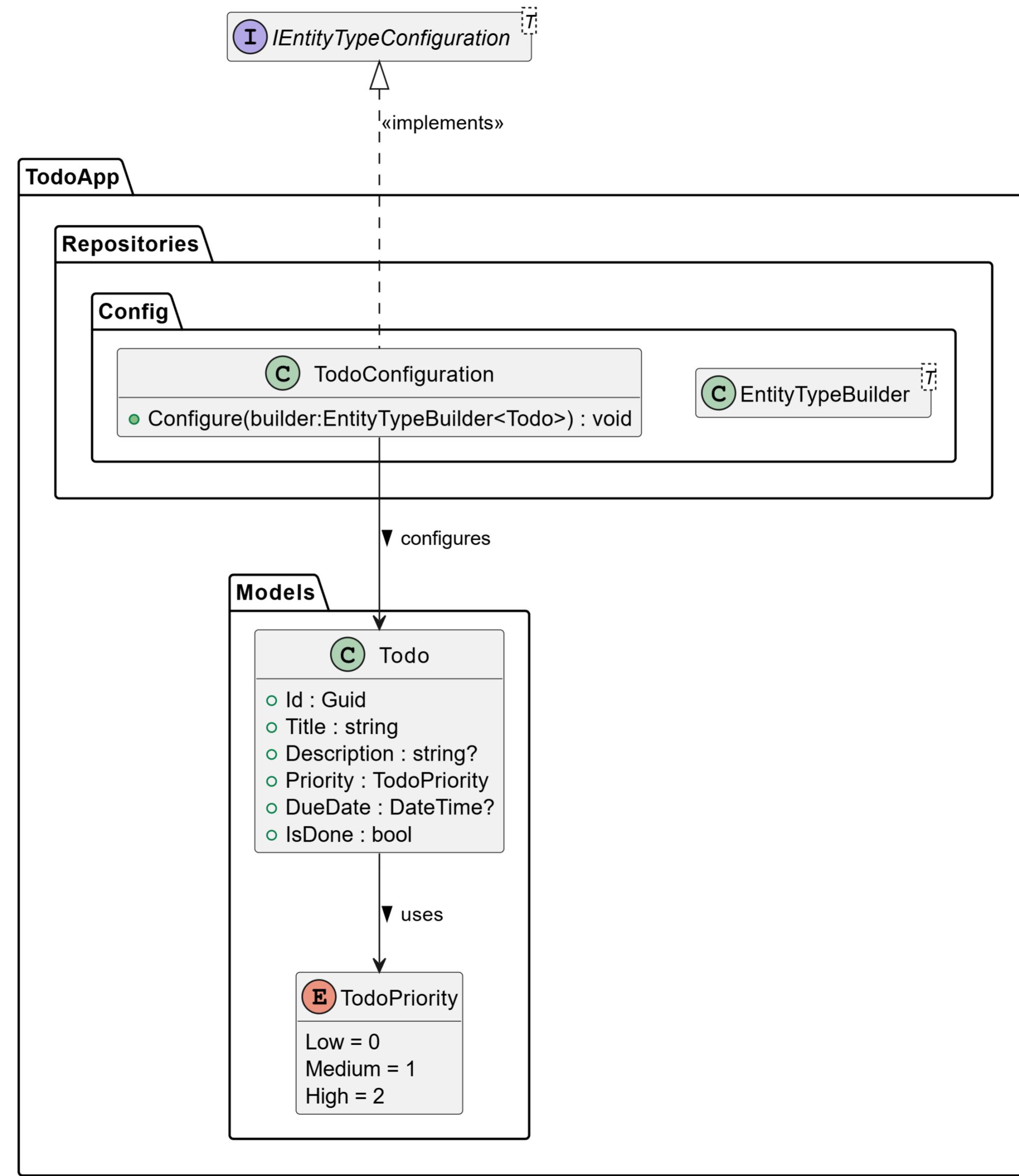
DbContext

Todo Class Diagram



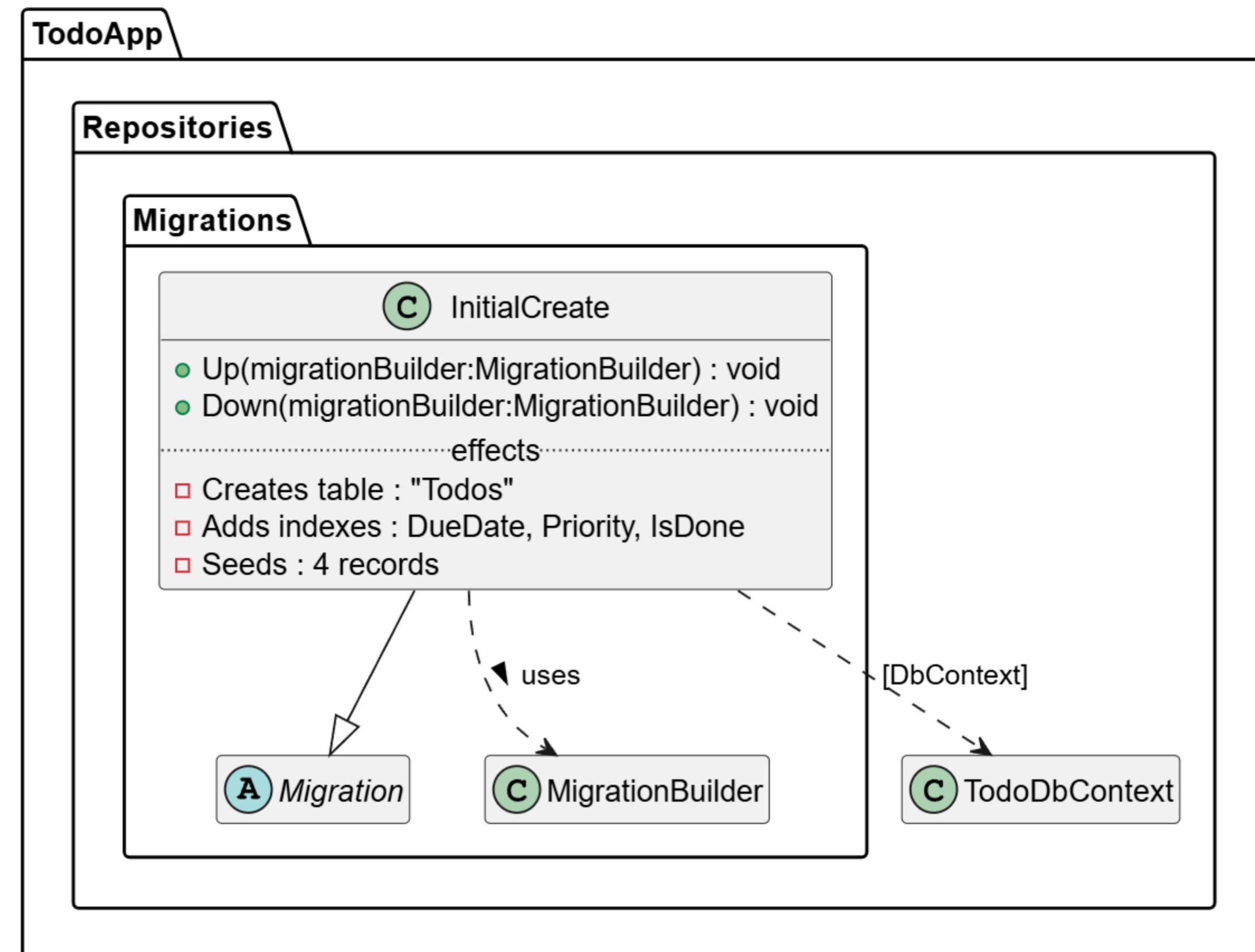
EntityTypeBuilder

Todo Class Diagram



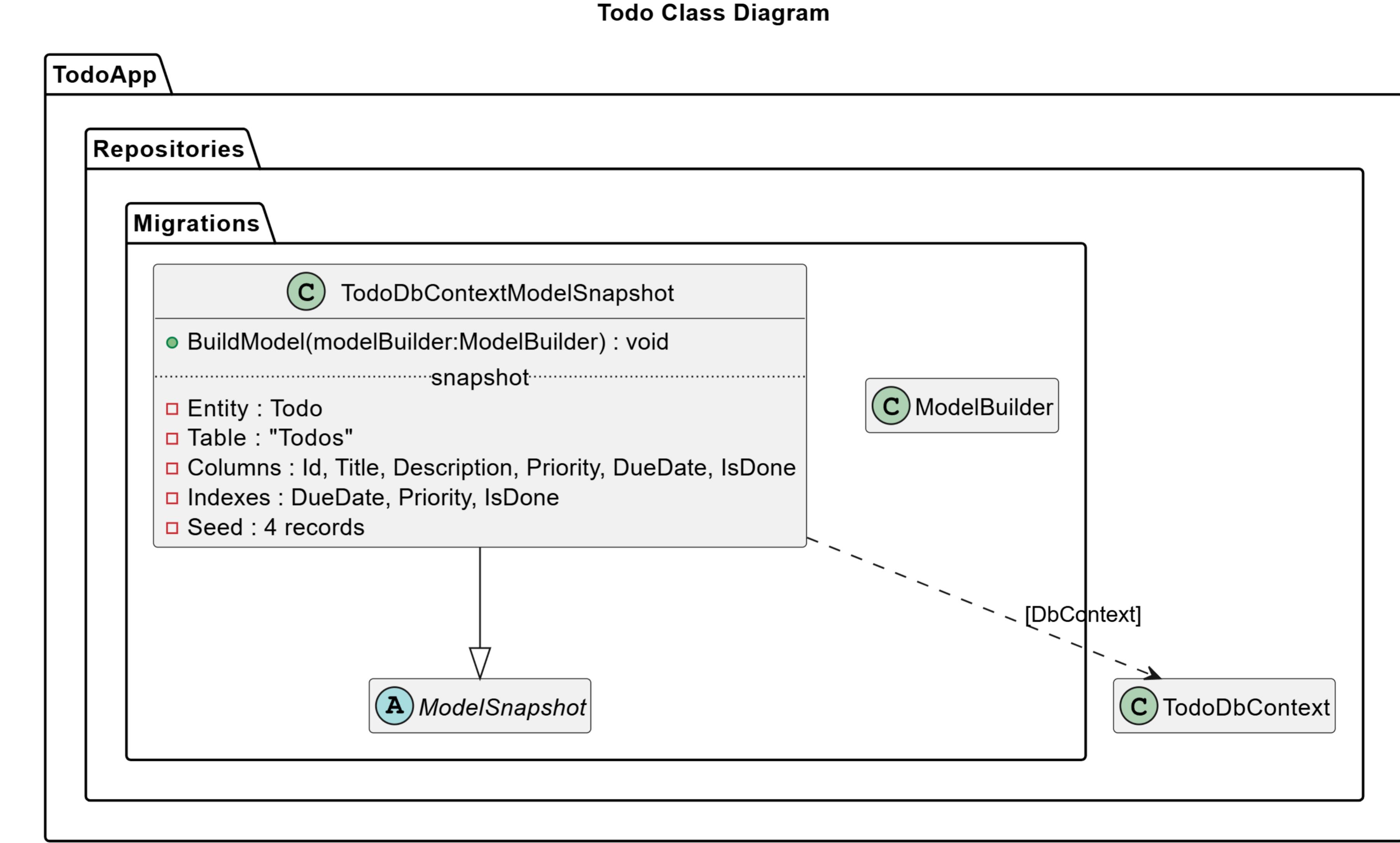
Migrations

Todo Class Diagram



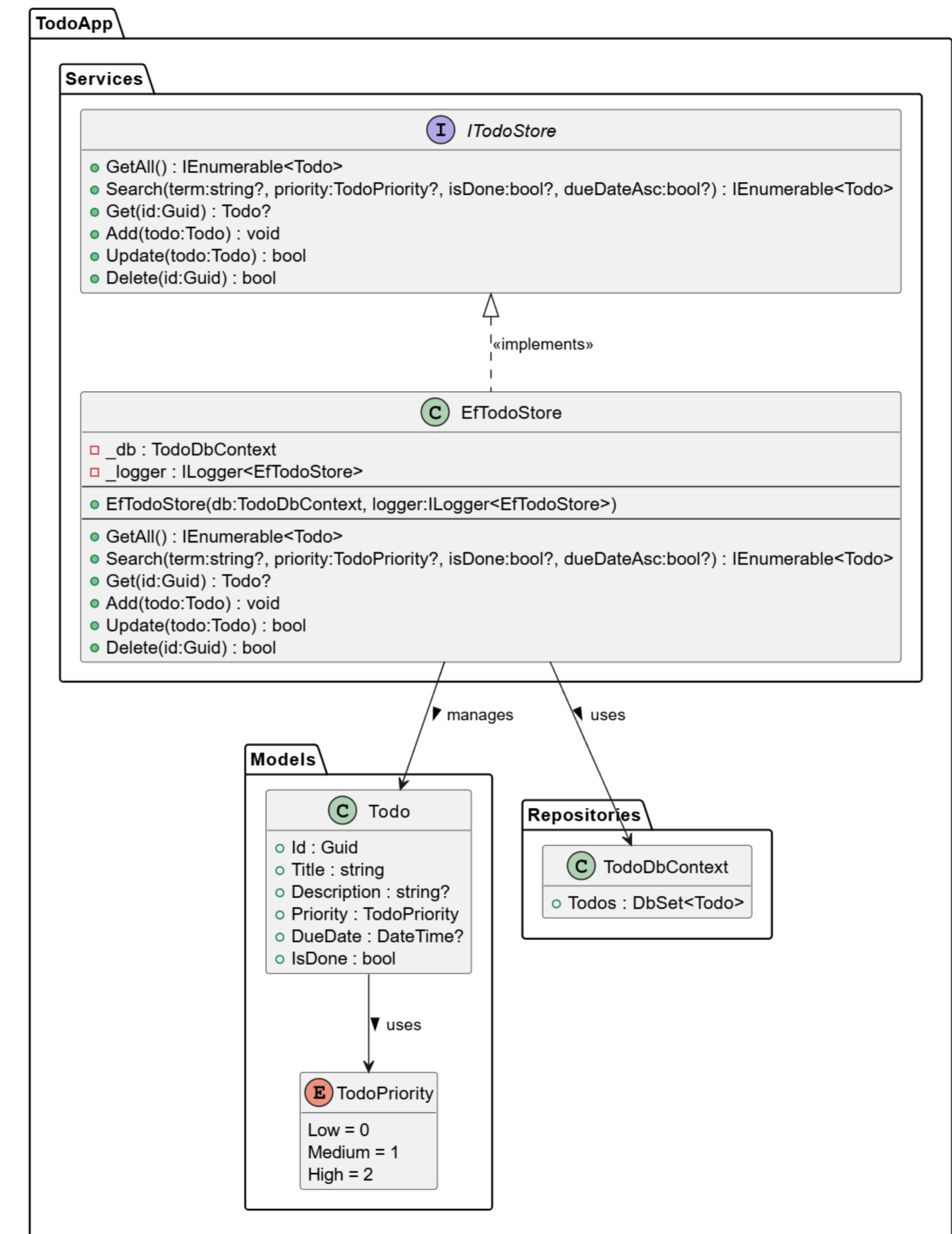
Migrations

Todo Class Diagram

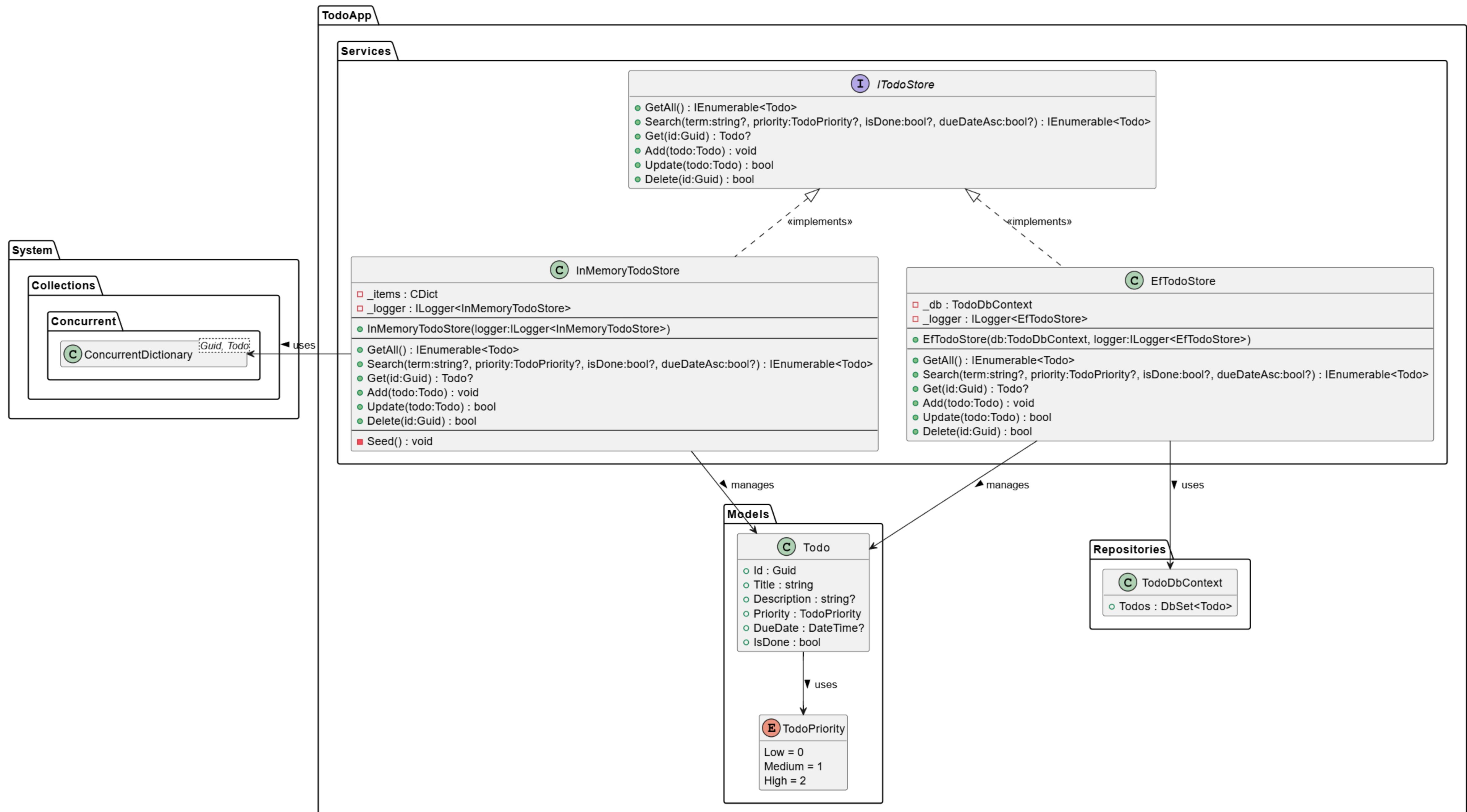


EfTodoStore

Todo Class Diagram

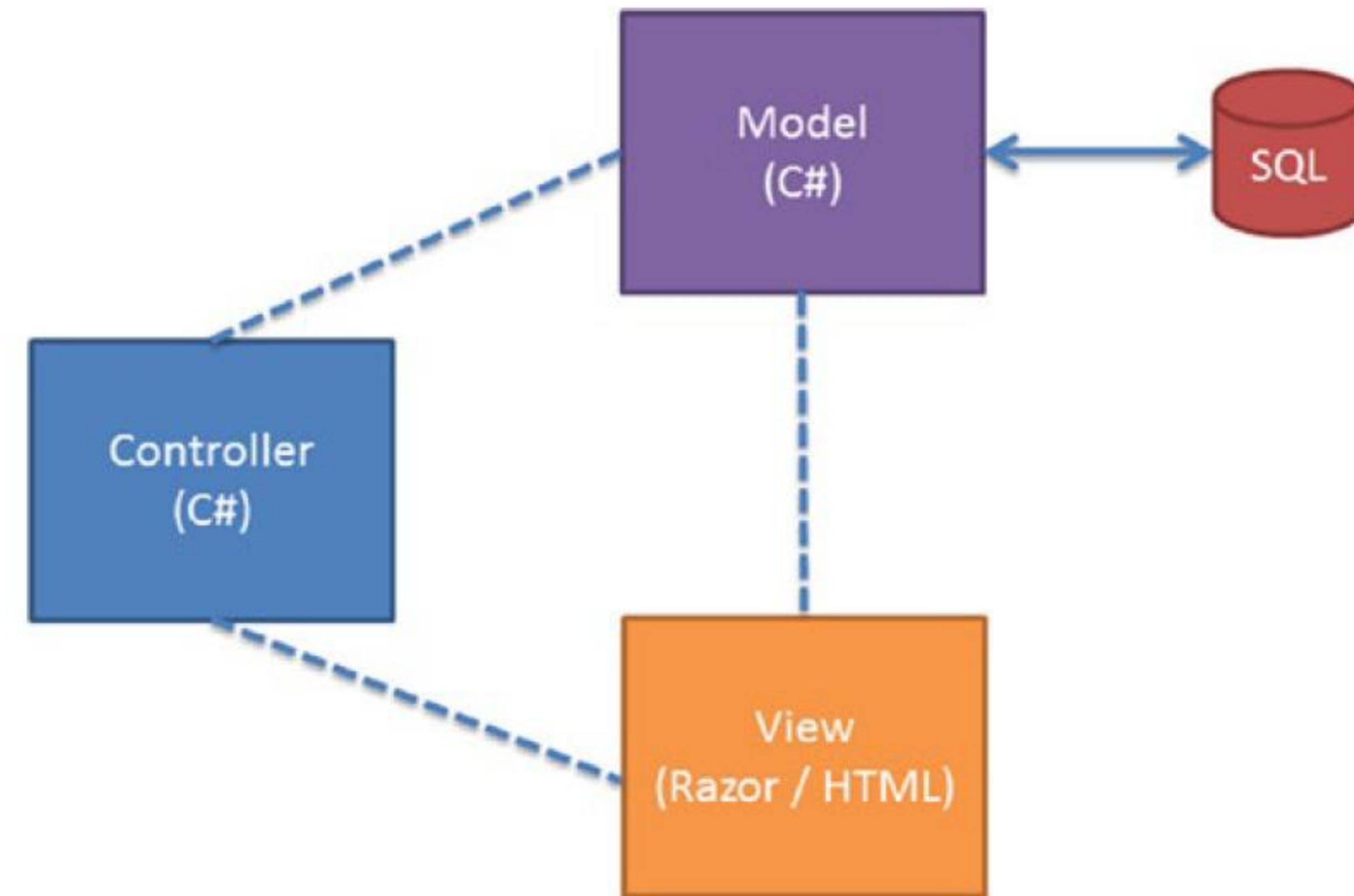


Todo Class Diagram



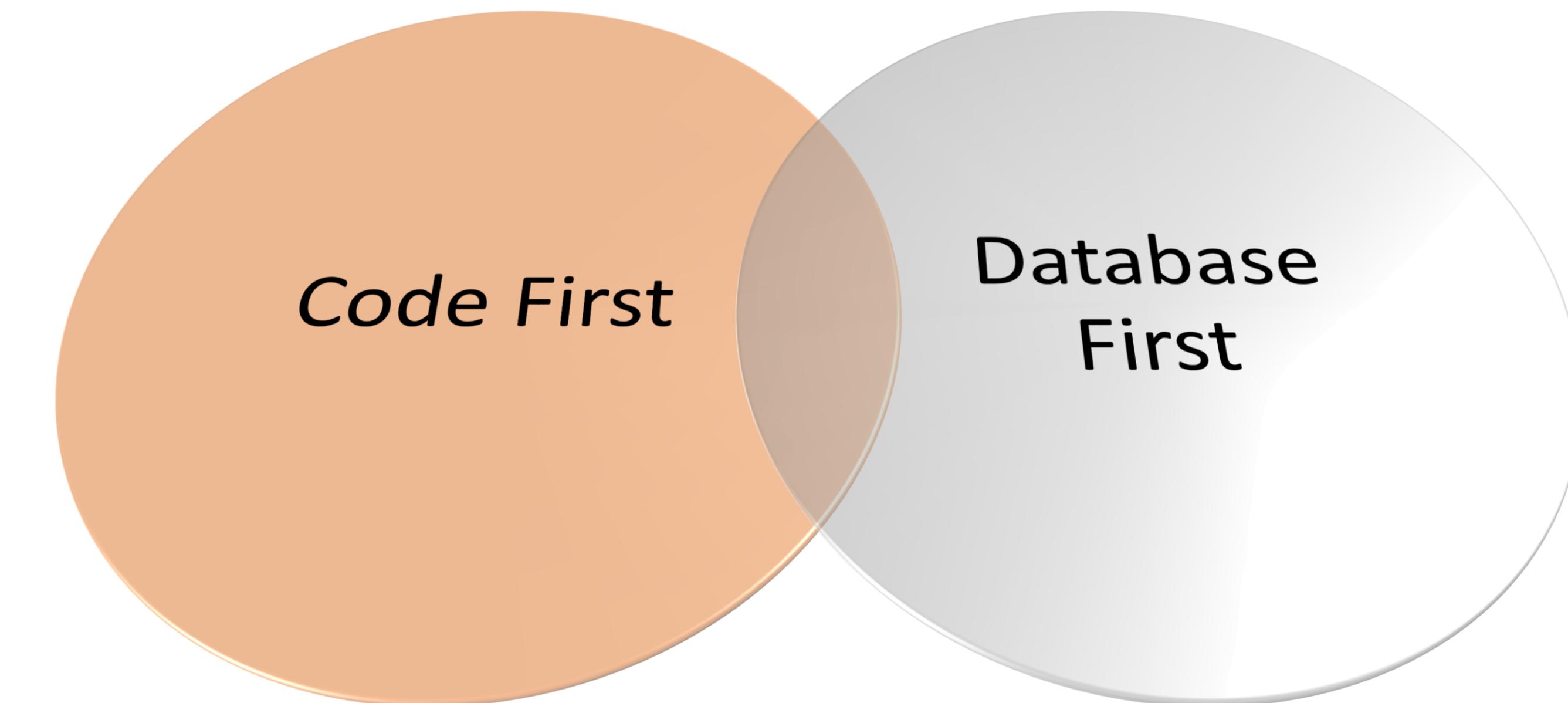
- MVC, mimarisel bir tasarım desenidir.

MVC

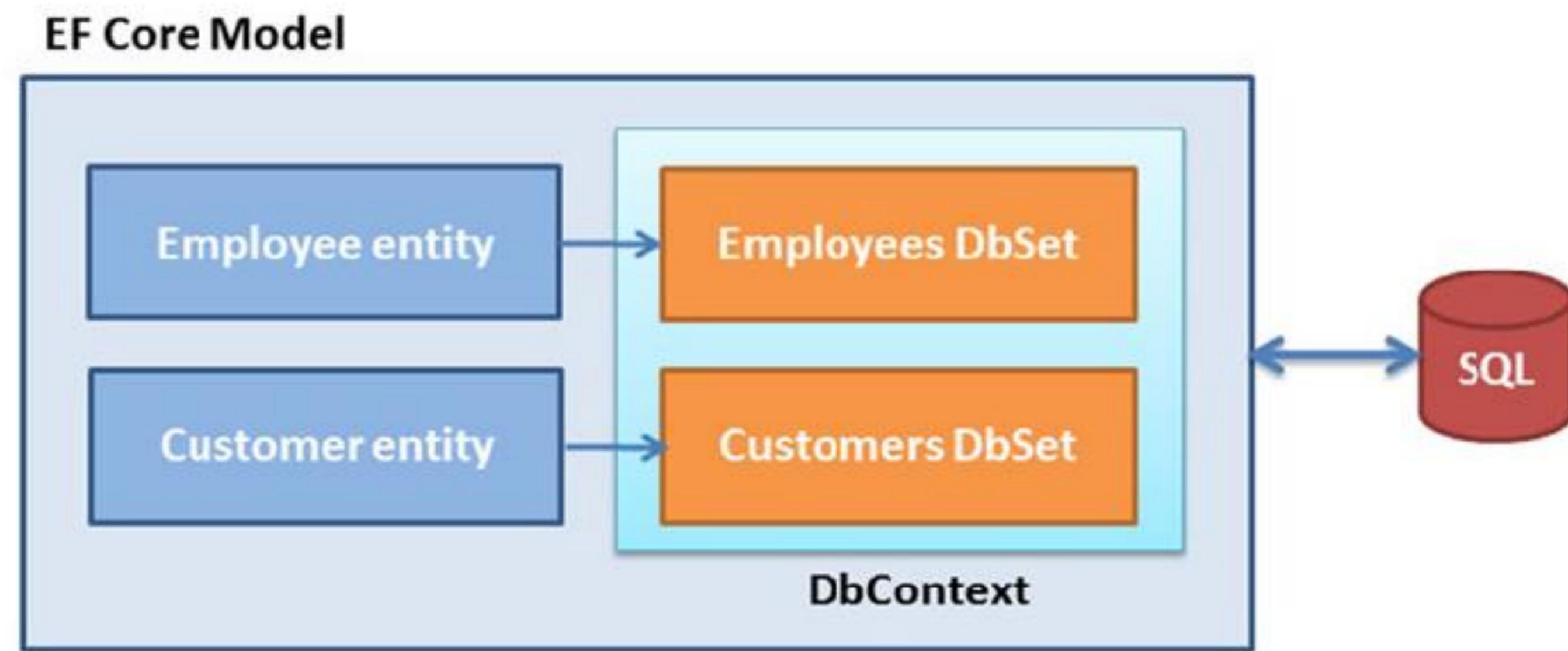


<https://learn.microsoft.com/en-us/nuget/what-is-nuget>

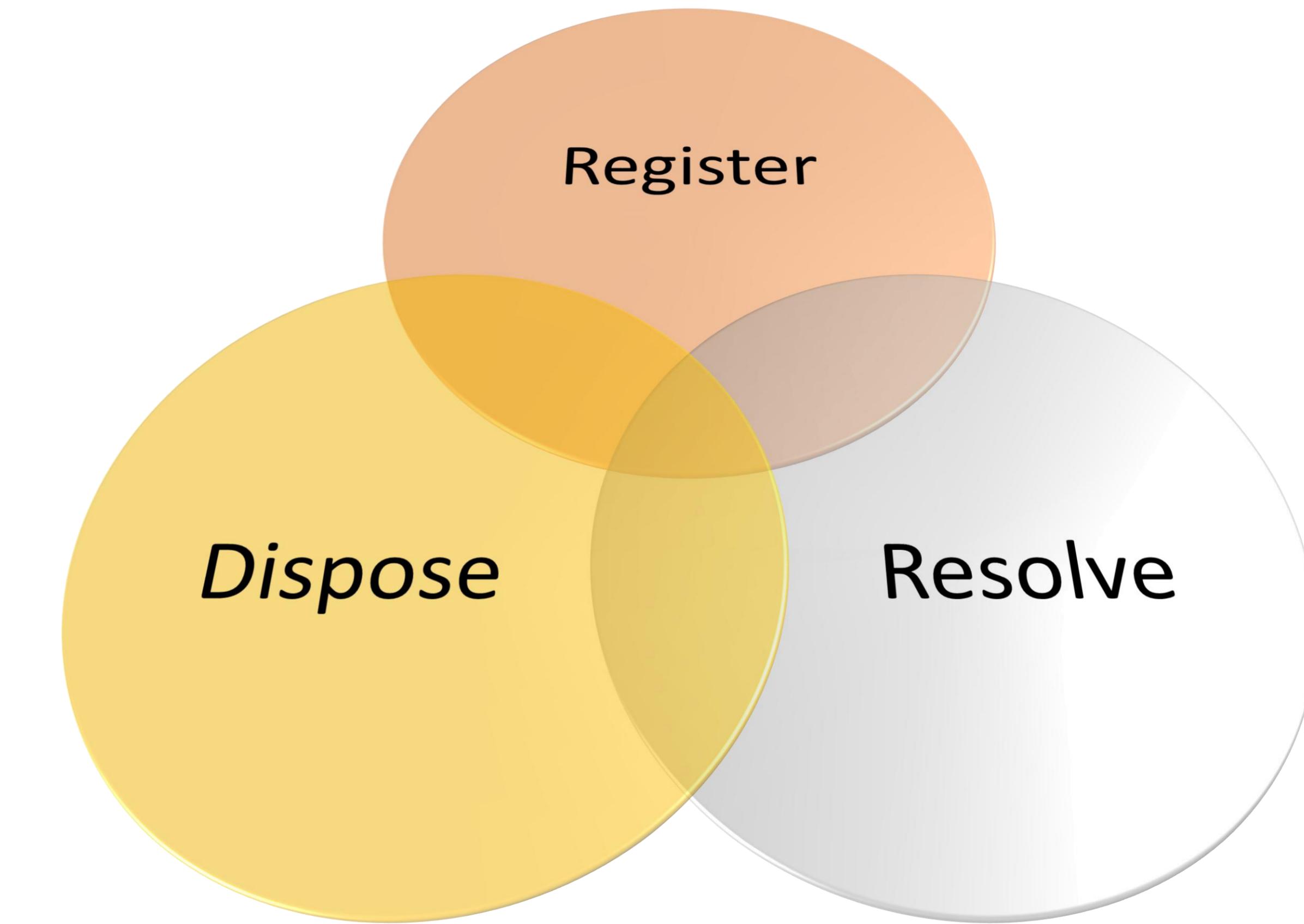
EF Core



DbContext

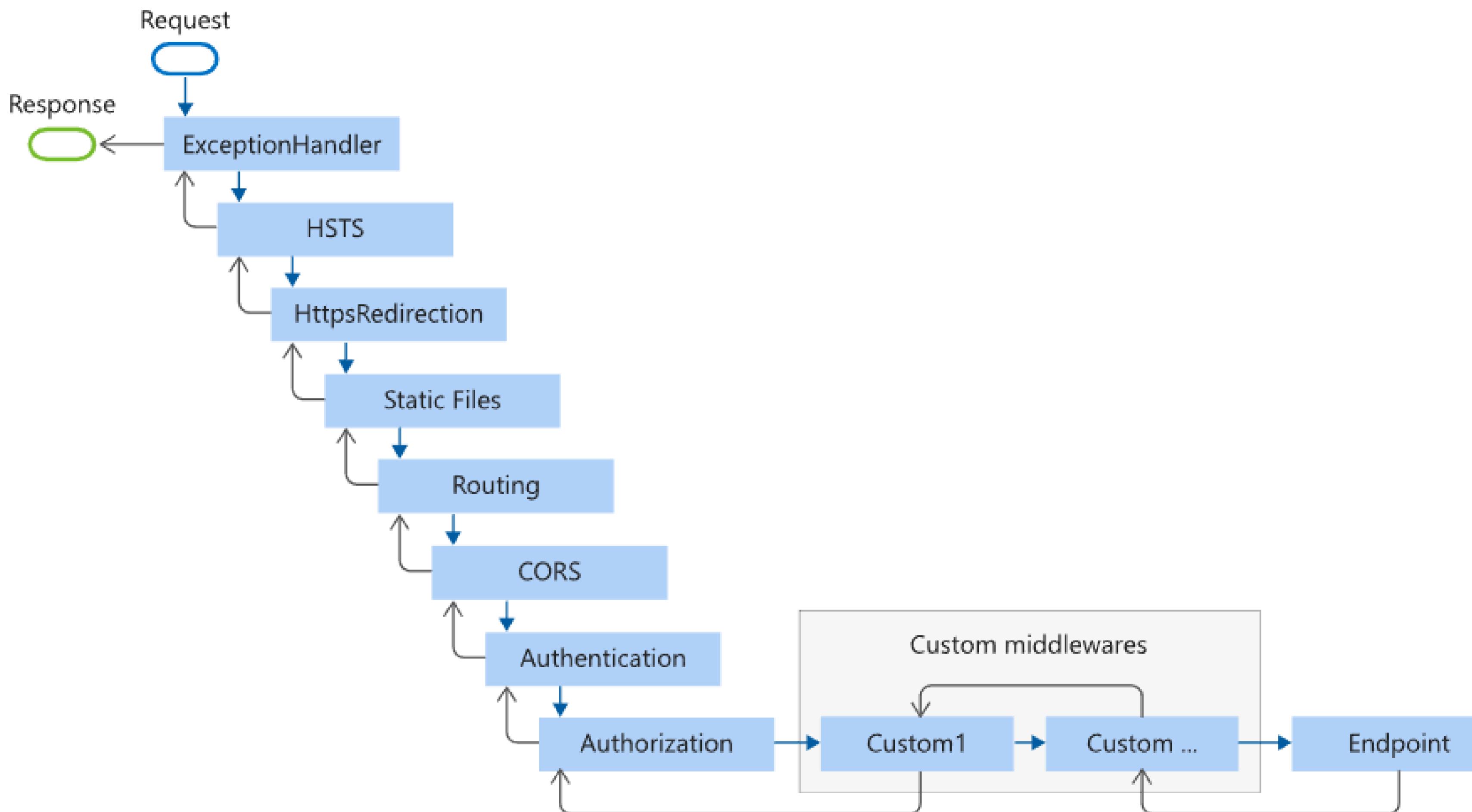


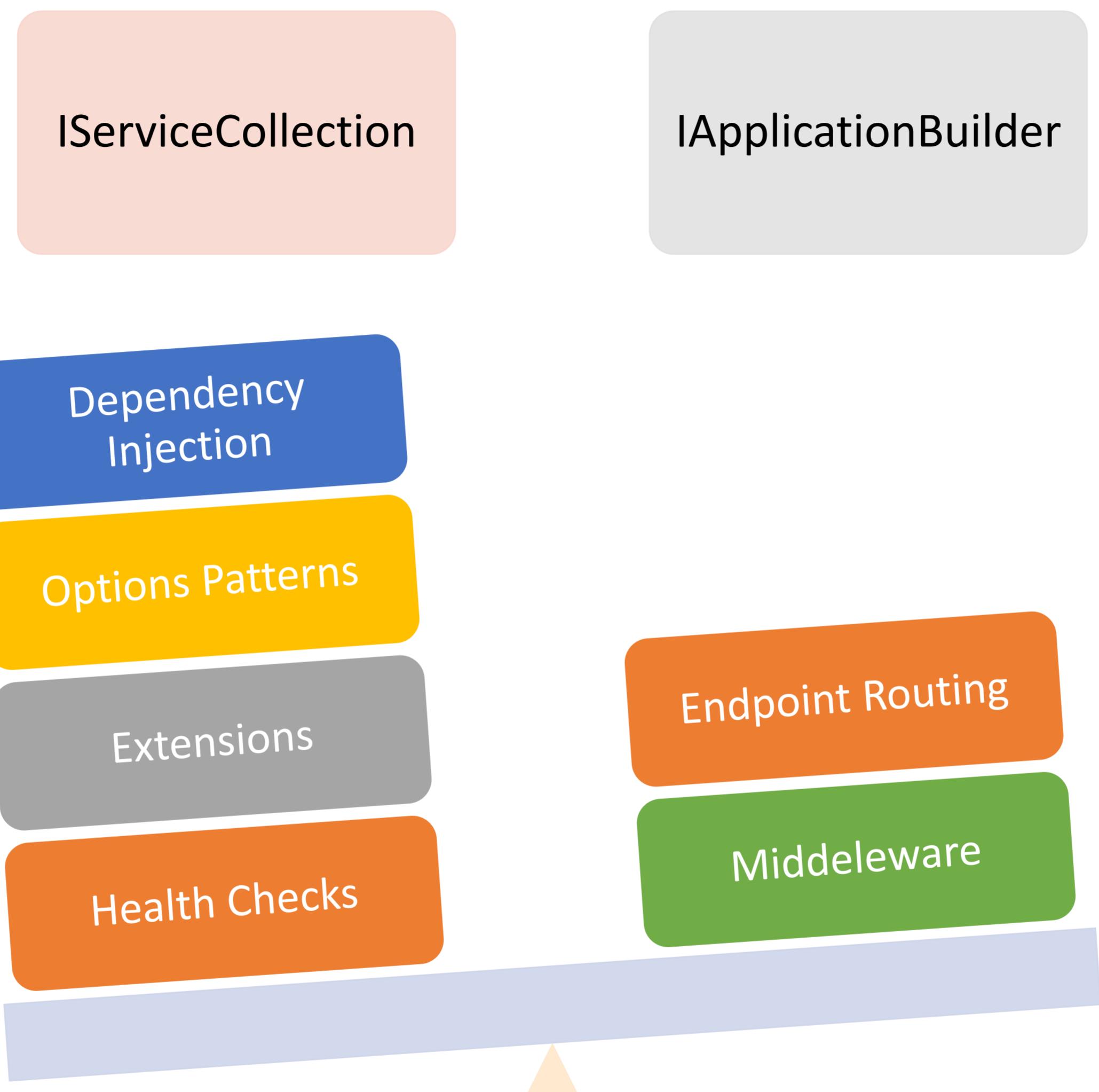
Dependency Injection



<https://learn.microsoft.com/en-us/aspnet/core/fundamentals/dependency-injection?view=aspnetcore-7.0>

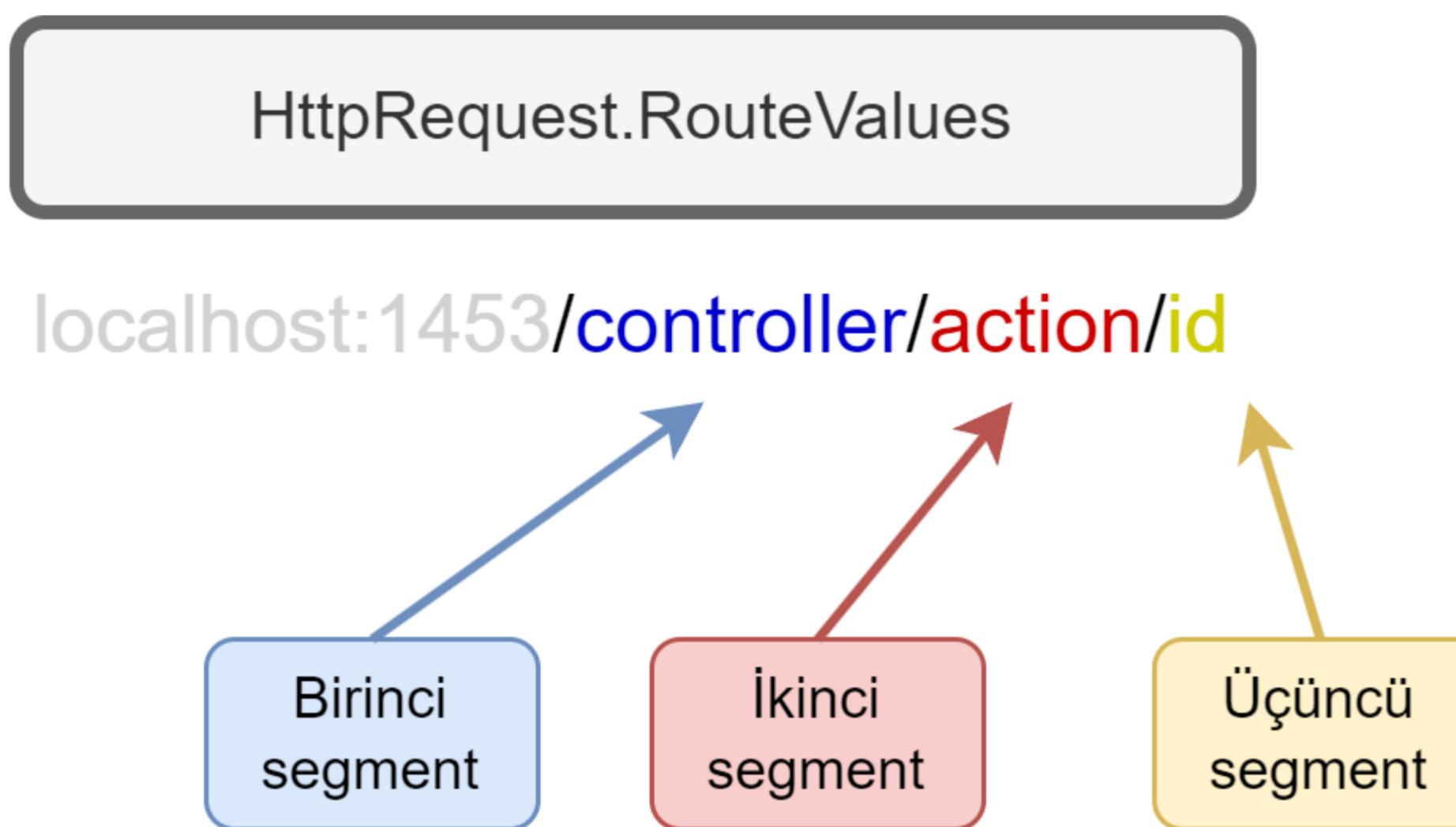
Pipeline



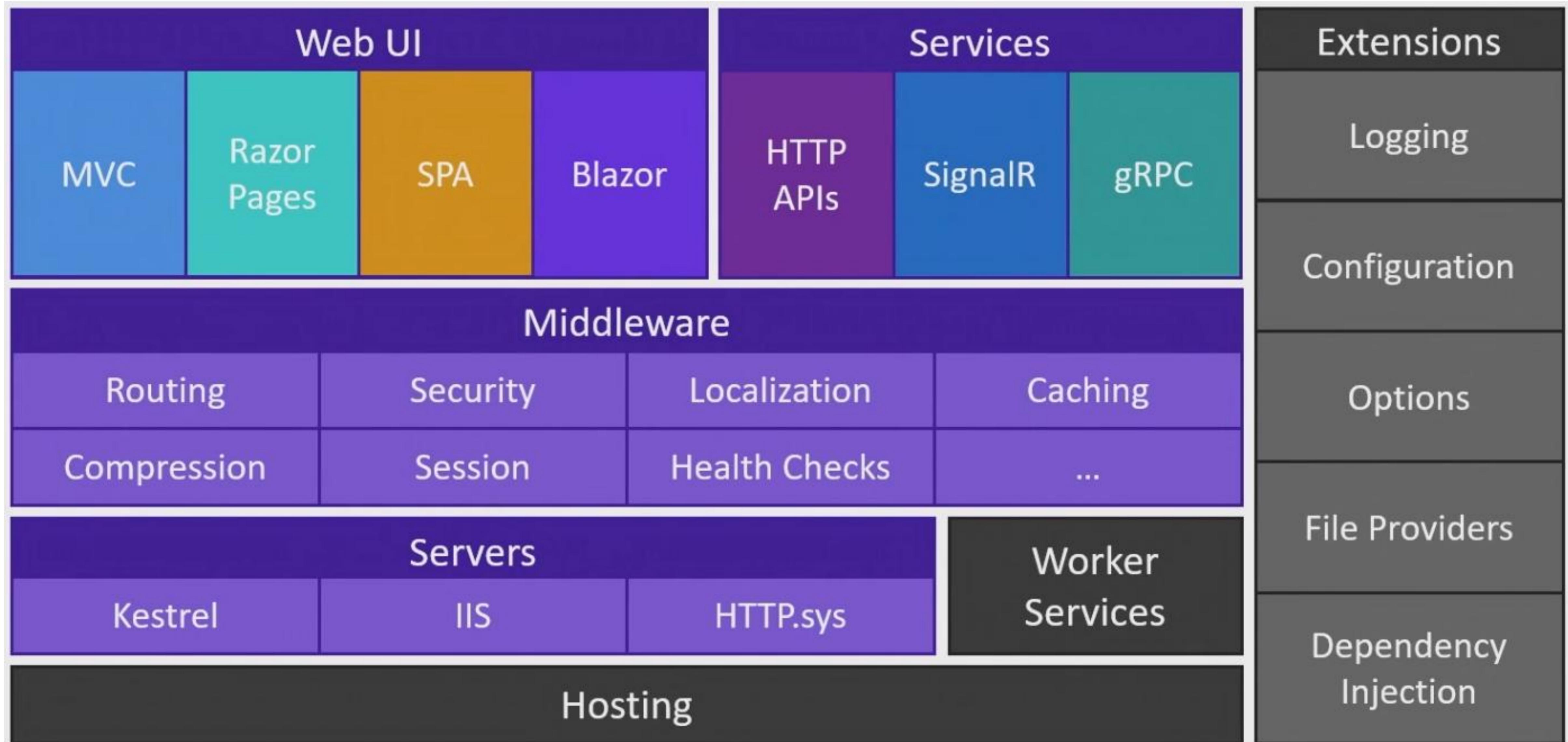


`IServiceCollection`'da Servisler Dependency Injection ile yönetilir. `IApplicationBuilder` ise Middleware zincirleri kurmak için kullanılır.

Routing



```
1 app.MapControllerRoute(  
2     name: "default",  
3     pattern: "{controller=Home}/{action=Index}/{id?}")  
4     .WithStaticAssets();
```



*

Brand

Search

Left Bar Menu

Render Body()

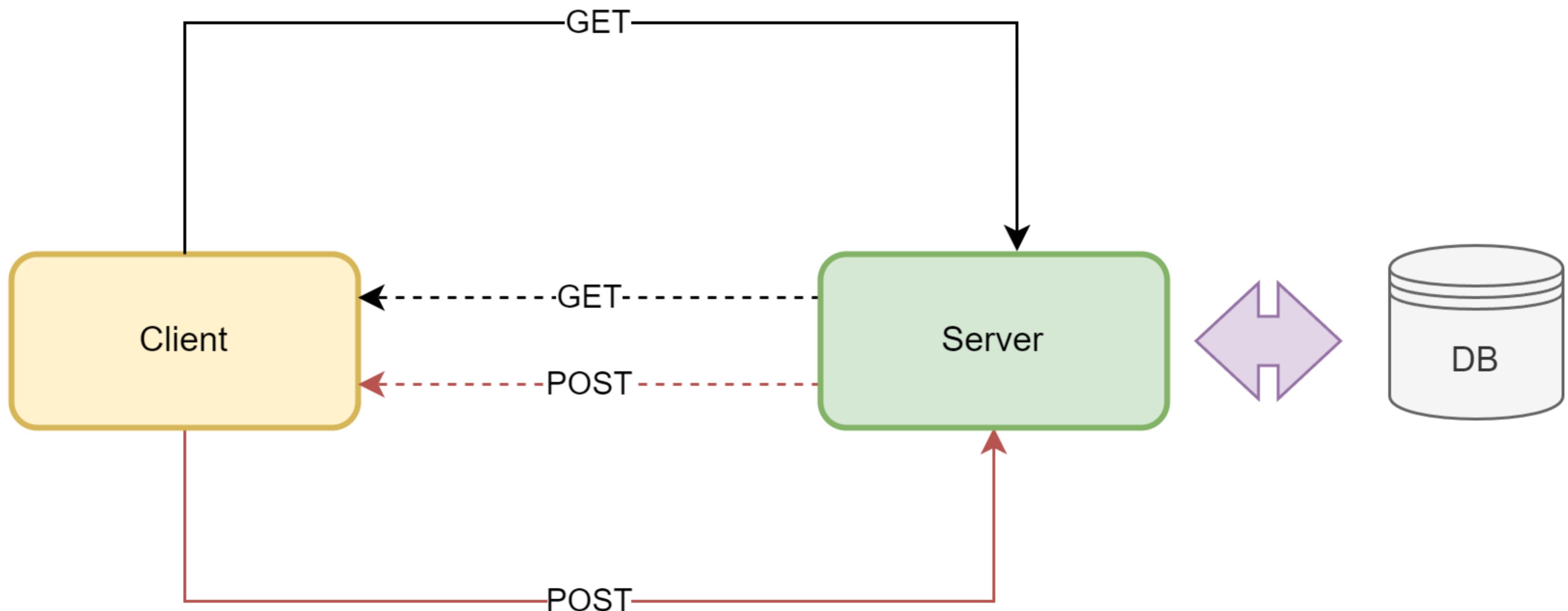
Logo

Copyright

Social Media

PRG Pattern

Post-Redirect-Get (PRG) Pattern



Teşekkürler

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Öğretim Üyesi