

Adding Data with Entity Framework Core



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Overview



Hello EF Core

Adding EF Core to the application

Initializing the database

Modifying the model



Hello EF Core



Entity Framework Core (EF Core)

ORM

LINQ support

Lightweight &
Cross-platform

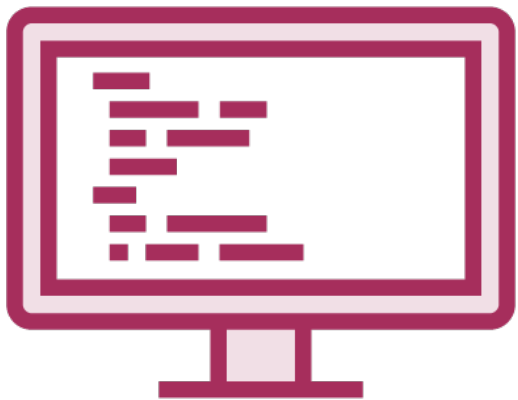
Open-source

SQL Server and
other, non-relational
DB support

Code-First only



EF Core



Code



Entity Framework



Database

What EF Core Does for You

Class

```
public class Pie
{
    public int PieId { get; set; }
    public string Name { get; set; }
    public string Description { get; set; }
}
```

Table

Field	Int (PK)
Name	String
Description	string



Adding EF Core to the Application



Adding EF Core to the Application

Domain classes

Database context

Connection string

Application configuration



The Database Context

```
public class AppDbContext : DbContext
{
    public AppDbContext(DbContextOptions<AppDbContext> options)
        : base(options)
    {
    }

    public DbSet<Pie> Pies { get; set; }
}
```



Demo



Adding the DbContext

Creating the real repository

Application configuration



Creating and Initializing the Database



Creating the Database



Database migration
Package Manager Console



Create database



Database



Initializing the Database



Code

Initialized from
Program class



Initial data



Database

Demo



Creating the database

Initializing the database



Modifying the Model



Modifying the Model



Model change
Database migration



Update database



Database



Demo



Modifying the model

Updating the database



Summary



Using EF Core, we can easily add a database to ASP.NET Core sites

Code-first approach

Migrations for synchronization





Up next:
Adding navigation

