

# ASP.NET MVC 5 Fundamentals

Entity Framework 6

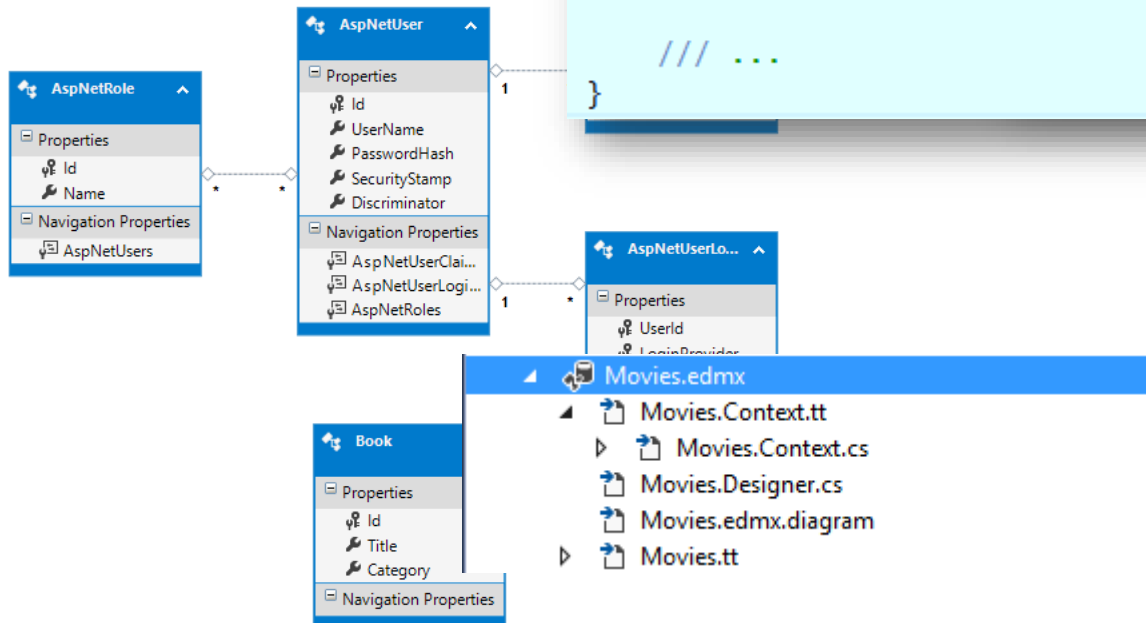
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**pluralsight**   
hardcore developer training

# What's First?

- Database
- Model
- Code



```
public class Book
{
    public int Id { get; set; }

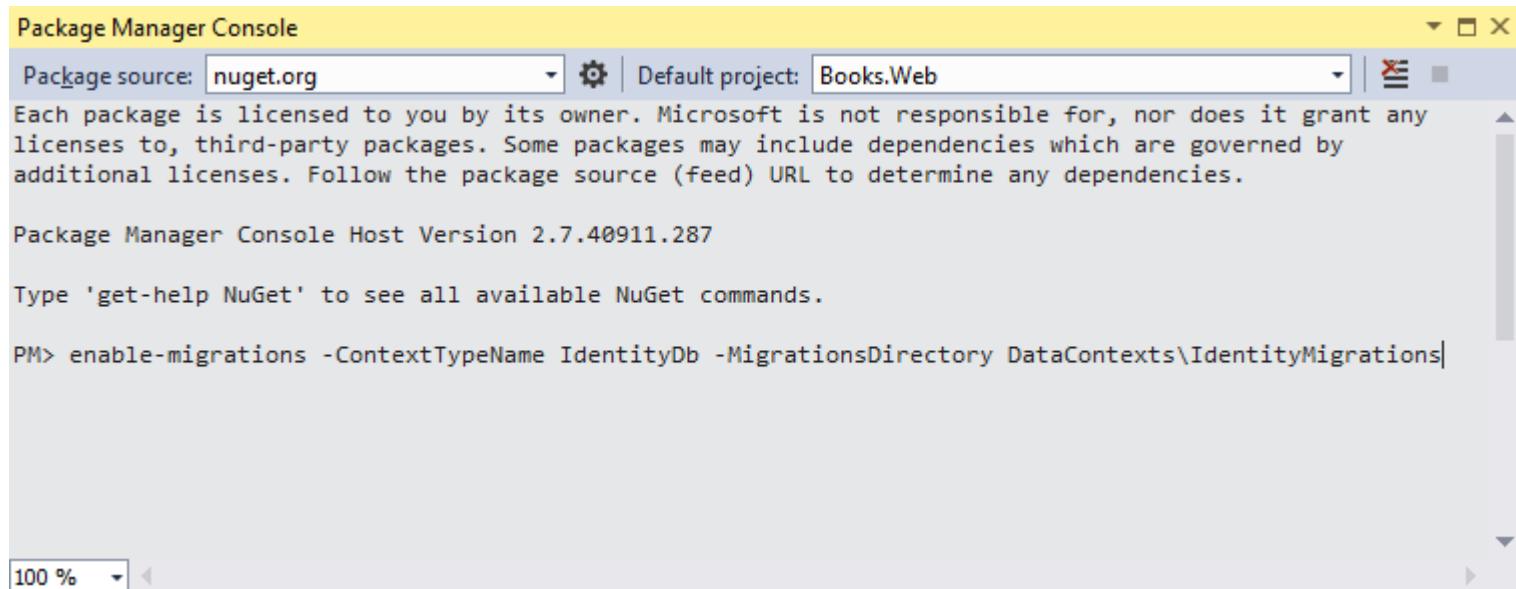
    [Required]
    public string Title { get; set; }
    public string Category { get; set; }
}
```

```
public class BookDb : DbContext
{
    public DbSet<Book> Books { get; set; }

    /// ...
}
```

# Migrations

- Create, seed, and apply schema changes
- Now supports multiple DbContexts in a project
  - -ContextTypeName
  - -MigrationsDirectory



The screenshot shows the Package Manager Console window with the following content:

```
Package Manager Console
Package source: nuget.org | Default project: Books.Web
Each package is licensed to you by its owner. Microsoft is not responsible for, nor does it grant any
licenses to, third-party packages. Some packages may include dependencies which are governed by
additional licenses. Follow the package source (feed) URL to determine any dependencies.

Package Manager Console Host Version 2.7.40911.287

Type 'get-help NuGet' to see all available NuGet commands.

PM> enable-migrations -ContextTypeName IdentityDb -MigrationsDirectory DataContexts\IdentityMigrations|
```

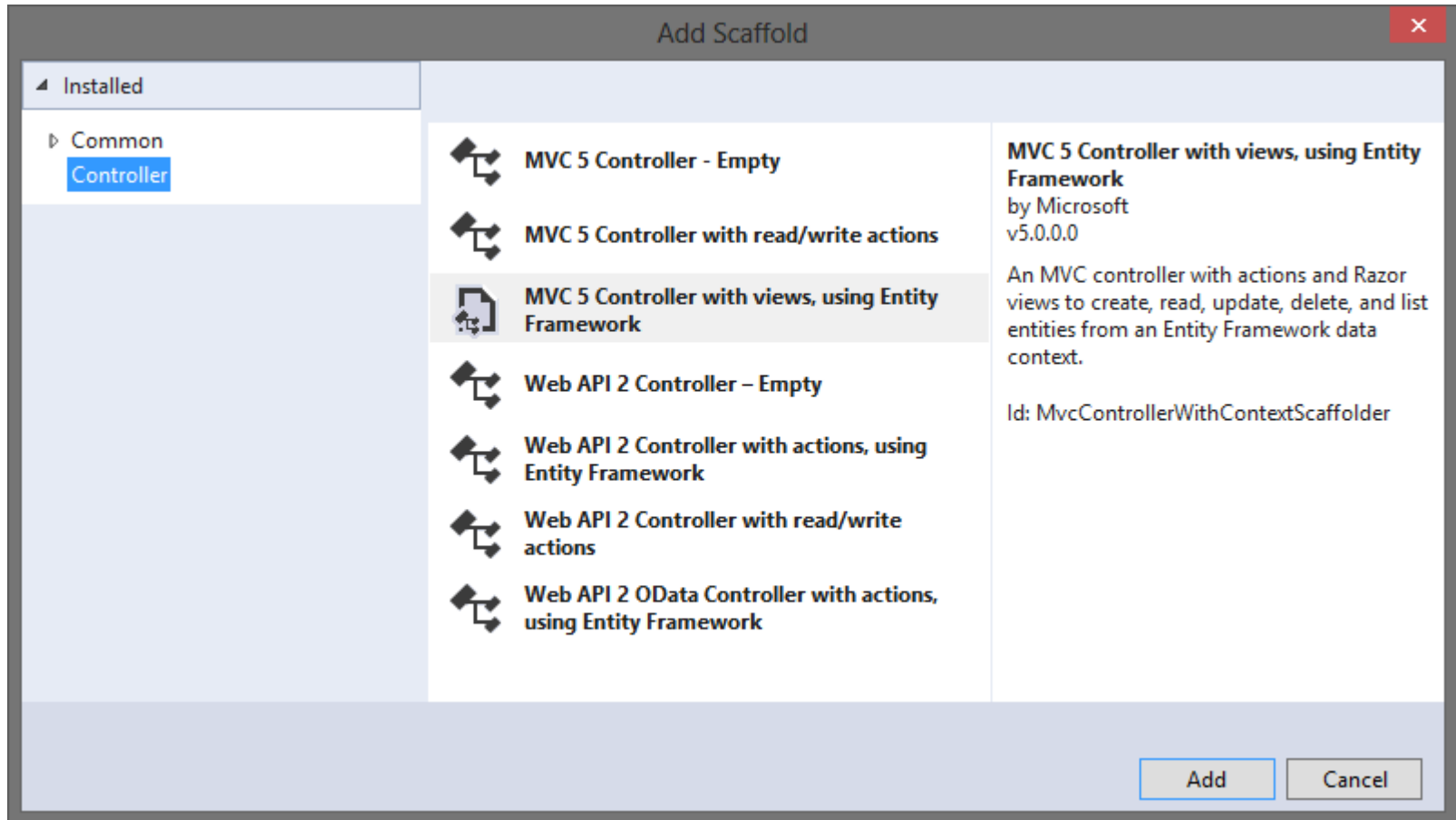
The console window also shows a zoom level of 100 % at the bottom left.

```
public class Book
{
    public int Id { get; set; }

    [Required]
    [StringLength(255)]
    public string Title { get; set; }

    public Genre Category { get; set; }
}
```

# Scaffolding and EF 6



# Async

- An async method can use an await
- Using await can free a thread
- EF6 provides an async API

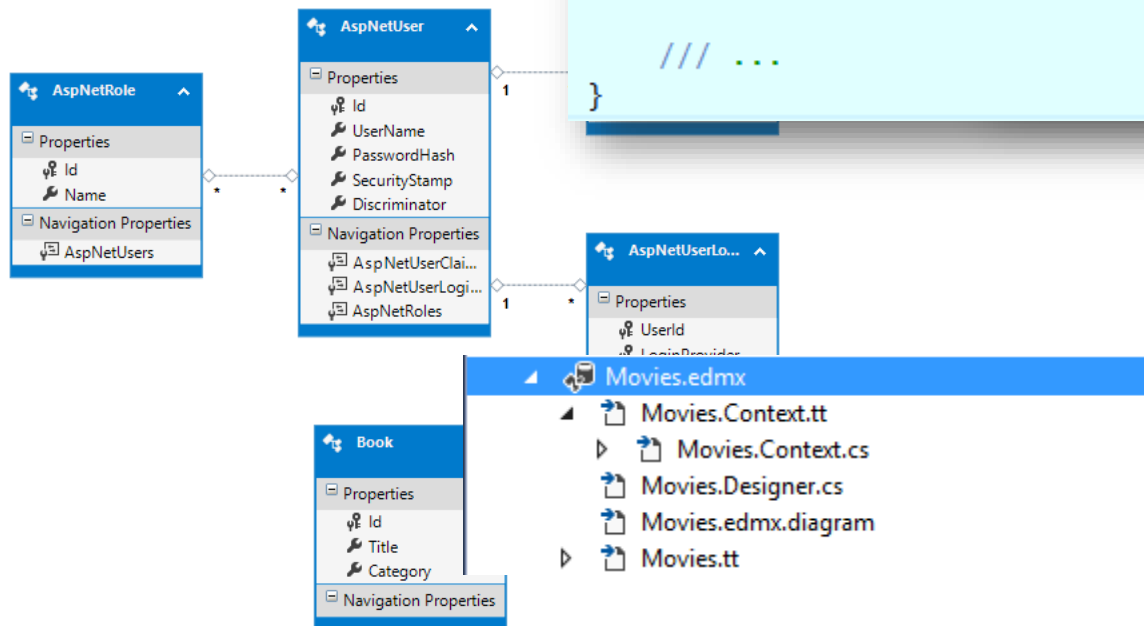
```
static async Task<int> SomeWorkAsync()  
{  
    var result = await ServiceCallAsync();  
    return result;  
}
```

# Logging

- What is happening with the database?
- Entity Framework can produce log output
- Glimpse



# Summary



```
public class Book
{
    public int Id { get; set; }

    [Required]
    public string Title { get; set; }
    public string Category { get; set; }
}
```

```
public class BookDb : DbContext
{
    public DbSet<Book> Books { get; set; }

    /// ...
}
```

**Movies.edmx**

- Movies.Context.tt
- Movies.Context.cs
- Movies.Designer.cs
- Movies.edmx.diagram
- Movies.tt