

# Data Annotations

.NET CORE

Data Annotation validators enable you to perform validation simply by adding one or more attributes to a Model class property.

HTTPS://DOCS.MICROSOFT.COM/EN-US/ASPNET/MVC/OVERVIEW/OLDER-VERSIONS-1/MODELS-DATA/VALIDATION-WITH-THE-DATA-ANNOTATION-VALIDATORS-CS

#### Data Annotations – Overview

https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions-1/models-data/validation-with-the-data-annotation-validators-cs

The **DataAnnotations** namespace provides a set of built-in *validation* attributes that are applied declaratively to a **class** or **property**. **DataAnnotations** also contains formatting **attributes** like DataType that help with formatting but don't provide validation.

```
[StringLength(60, MinimumLength = 3)]
[Required]
public string Title { get; set; }
[Display(Name = "Release Date")]
[DataType(DataType.Date)]
public DateTime ReleaseDate { get; set;
[Range(1, 100)]
[DataType(DataType.Currency)]
[Column(TypeName = "decimal(18, 2)")]
public decimal Price { get; set; }
```

## Annotations to Display and Edit

# [Display()] [Display(Name ="Film Genre")] This gives the *View* the desired name for Display in the browser [DataType()] [DataType(DataType,Password)] [DataType(DataType,Passwor

```
[Display(Name = "Release Date")]
[DataType(DataType.Date)]
[DisplayFormat(DataFormatString = "{0:yyyy-MM-dd}", ApplyFormatInEditMode = true)]
public DateTime ReleaseDate { get; set; }
```

### Annotations for Validation

https://docs.microsoft.com/en-us/aspnet/mvc/overview/getting-started/introduction/adding-validation

Annotation	Purpose
[Required]	The property is not allowed to be null
[Range(x,y)]	X is the minimum. Y is the maximum.
[StringLength(x)]	X is the maximum length of the property
[RegularExpression]	[RegularExpression(@"^[A-Z]+[a-zA-Z0-9""\s-]*\$")]
[MinLength(x)]	Minimum length is x. Also sets DB column size max.
[MaxLength(x)]	Maximum length is x. Also sets DB column size max.

### Data Annotations – Examples

https://docs.microsoft.com/en-us/aspnet/mvc/overview/getting-started/introduction/adding-validation

```
public class Movie
   public int ID { get; set; }
   [StringLength(60, MinimumLength = 3)]
   public string Title { get; set; }
   [Display(Name = "Release Date")]
   [DataType(DataType.Date)]
   [DisplayFormat(DataFormatString = "{0:yyyy-MM-dd}", ApplyFormatInEditMode = true)]
   public DateTime ReleaseDate { get; set; }
   [RegularExpression(@"^[A-Z]+[a-zA-Z'\s]*$")]
   [Required]
   [StringLength(30)]
   public string Genre { get; set; }
   [Range(1, 100)]
   [DataType(DataType.Currency)]
   public decimal Price { get; set; }
   [RegularExpression(@"^[A-Z]+[a-zA-Z'\s]*$")]
   [StringLength(5)]
   public string Rating { get; set; }
```