

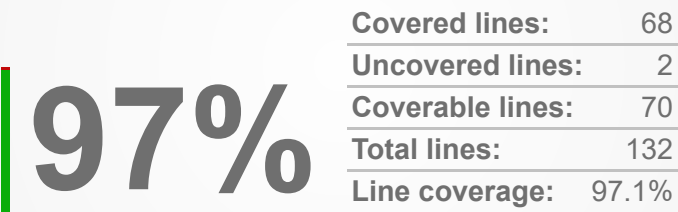
Information

Class: EfCoreModelsLib.DTO.TitlesDto

Assembly: EfCoreModelsLib

File(s): C:\Users\shero\source\repos\IMDb-Project\ef-models\EfCoreModelsLib\DTO\TitlesDto.cs

Line coverage



Branch coverage



Method coverage

Feature is only available for sponsors

- | 🔑 get_TitleType()
- | 🔑 get_PrimaryTitle()
- | 🔑 get_OriginalTitle()
- | 🔑 get_IsAdult()
- | 📦 .ctor()
- | 🔑 get_StartYear()
- | 🔑 set_StartYear(System.Int32)
- | 🔑 get_EndYear()
- | 🔑 set_EndYear(System.Nullable`1<System....
- | 🔑 get_RuntimeMinutes()
- | 🔑 set_RuntimeMinutes(System.Nullable`1<...
- | 📦 ValidateTitleType()
- | 📦 ValidatePrimaryTitle()
- | 📦 ValidateOriginalTitle()
- | 📦 ValidateStartYear()
- | 📦 ValidateEndYear()
- | 📦 ValidateRuntimeMinutes()
- | 📦 Validate()

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Metrics

Method	Branch coverage ⓘ	Crap Score ⓘ	Cyclomatic complexity ⓘ	Line coverage ⓘ
get_TitleType()	100%	1	1	100%
get_PrimaryTitle()	100%	1	1	100%
get_OriginalTitle()	100%	1	1	100%
get_IsAdult()	100%	1	1	100%
.ctor()	100%	1	1	100%
get_StartYear()	100%	1	1	100%
set_StartYear(...)	100%	1	1	100%
get_EndYear()	100%	1	1	100%
set_EndYear(...)	100%	2	2	100%
get_RuntimeMinutes()	100%	1	1	100%
set_RuntimeMinutes(...)	100%	2	2	100%
ValidateTitleType()	100%	12	12	100%
ValidatePrimaryTitle()	100%	22	22	100%
ValidateOriginalTitle()	100%	22	22	100%
ValidateStartYear()	100%	4	4	100%
ValidateEndYear()	83.33%	6	6	84.61%
ValidateRuntimeMinutes()	100%	8	8	100%
Validate()	100%	1	1	100%

Methods/Properties

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File(s)

C:\Users\shero\source\repos\IMDb-Project\ef-models\EfCoreModelsLib\DTO\TitlesDto.cs

#	Line	Line coverage
	1	
	2	namespace EfCoreModelsLib.DTO
	3	{
	4	public class TitlesDto : IObjecId
	5	{
	6	private const int SYSTEM_MAX_YEAR = 9999;
	7	private const int BUSINESS_MAX_FUTURE_YEARS = 100;
	8	
	9	
114	10	public required string TitleType { get; set; }
118	11	public required string PrimaryTitle { get; set; }
118	12	public required string OriginalTitle { get; set; }
65	13	public bool IsAdult { get; set; }
65	14	private readonly DateOnly _year = DateOnly.FromDateTime(DateTime.Now);
	15	
	16	private int _startYear;
	17	public int StartYear
	18	{
17	19	get => _startYear;
	20	set =>
	21	// Use Math.Abs to ensure only non-negative values are set
74	22	_startYear = Math.Abs(value);
	23	}
	24	
	25	private int? _endYear;
	26	public int? EndYear
	27	{
16	28	get => _endYear;
	29	set =>
73	30	_endYear = value.HasValue ? Math.Abs(value.Value) : (int?)null
	31	}
	32	
	33	private int? _runtimeMinutes;
	34	public int? RuntimeMinutes

Methods/Properties

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#	Line	Line coverage
	35	{
13	36	get => _runtimeMinutes;
	37	set =>
77	38	_runtimeMinutes = value.HasValue ? Math.Abs(value.Value) : (in
	39	}
	40	
	41	
	42	
	43	public void ValidateTitleType()
14	44	{
14	45	if (string.IsNullOrEmpty(TitleType) && string.IsNullOrEmpty(T
2	46	{
2	47	throw new ArgumentNullException(nameof(TitleType), "TitleType
	48	}
12	49	if (TitleType.Length is < 5 or > 25 !TitleType.All(char.IsLette
6	50	{
6	51	throw new ArgumentException("TitleType must be between 5 and 2
	52	}
6	53	}
	54	
	55	public void ValidatePrimaryTitle()
13	56	{
13	57	if (string.IsNullOrEmpty(PrimaryTitle) && string.IsNullOrEmpty(T
2	58	{
2	59	throw new ArgumentNullException(nameof(PrimaryTitle), "Primary
	60	}
11	61	if (PrimaryTitle.Length < 5 PrimaryTitle.Length > 255
598	62	!PrimaryTitle.All(c => char.IsLetter(c) char.IsWhiteSpace(c
598	63	c == '-' c == '\\' c == ',' c
4	64	{
4	65	throw new ArgumentException("PrimaryTitle must be between 5 an
	66	}
7	67	}
	68	public void ValidateOriginalTitle()
13	69	{

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#	Line	Line coverage
13	70	if (string.IsNullOrEmpty(OriginalTitle) && string.IsNullOrEmptyEmp
2	71	{
2	72	throw new ArgumentNullException(nameof(OriginalTitle), "Origin
	73	}
11	74	if (OriginalTitle.Length < 5 OriginalTitle.Length > 255
599	75	!OriginalTitle.All(c => char.IsLetter(c) char.IsWhiteSpace(
599	76	c == '-' c == '\\' c == ',' c
4	77	{
4	78	throw new ArgumentException("OriginalTitle must be between 5 a
	79	}
7	80	}
	81	
	82	public void ValidateStartYear()
10	83	{
10	84	if (StartYear < 1888 StartYear > _year.Year)
4	85	{
4	86	throw new ArgumentOutOfRangeException(nameof(StartYear), "Star
	87	}
6	88	}
	89	
	90	public void ValidateEndYear()
9	91	{
9	92	int currentYear = DateTime.Now.Year;
9	93	int businessLimitYear = currentYear + BUSINESS_MAX_FUTURE_YEARS;
	94	
9	95	if (EndYear < _year.Year)
5	96	{
5	97	throw new ArgumentOutOfRangeException(nameof(EndYear), "EndYea
	98	
	99	}
4	100	if (EndYear > businessLimitYear)
1	101	{
1	102	throw new ArgumentOutOfRangeException(nameof(EndYear), \$"EndYe
	103	}
3	104	if(EndYear > SYSTEM_MAX_YEAR)

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#	Line	Line coverage
0	105	{
0	106	throw new ArgumentOutOfRangeException(nameof(EndYear), \$"EndYe
	107	}
	108	
3	109	}
	110	public void ValidateRuntimeMinutes()
	111	{
13	112	if (RuntimeMinutes is < 60 or > 1440)
6	113	{
6	114	throw new ArgumentOutOfRangeException(nameof(RuntimeMinutes),
	115	}
7	116	}
	117	
	118	
	119	public void Validate()
2	120	{
2	121	ValidatePrimaryTitle();
2	122	ValidateOriginalTitle();
2	123	ValidateTitleType();
1	124	ValidateStartYear();
1	125	ValidateEndYear();
1	126	ValidateRuntimeMinutes();
	127	
1	128	}
	129	
	130	
	131	}
	132	}

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