```
LinksPlatform's Platform Setters Class Library
    ./csharp/Platform.Setters/SetterBase.cs
   using System.Runtime.CompilerServices;
   using Platform.Interfaces;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
   namespace Platform.Setters
6
        /// <summary>
        /// <para>Provides a base implementation for an setter that allows you to set a passed value
9
           as the resulting value.</para>
        /// <para>Предоставляет базовую реализацию для установщика, который позволяет установить
10
           переданное значение в качестве результирующего значения. </para>
        /// </summary>
11
        /// <remarks>
12
        /// Must be class, not struct (in order to persist access to Result property value).
13
        /// </remarks>
14
        public abstract class SetterBase<TResult> : ISetter<TResult>
15
16
            /// <summary>
17
            /// <para>Represents a range between minumum and maximum values.</para>
            /// <para>Представляет диапазон между минимальным и максимальным значениями.</para>
19
            /// </summary>
20
            protected TResult _result;
21
22
            /// <summary>
23
            /// <para>Represents a range between minumum and maximum values.</para>
24
            /// <para>Представляет диапазон между минимальным и максимальным значениями.</para>
            /// </summary>
            public TResult Result => _result;
27
2.8
            /// <summary>
29
            /// <para>Represents a range between minumum and maximum values.</para>
            /// <para>Представляет диапазон между минимальным и максимальным значениями.</para>
31
            /// </summary>
32
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
33
            protected SetterBase() { }
35
            /// <summary>
            /// <para>Sets the passed-in default value as the result.</para>
37
            /// <pаra>Устанавливает переданное значение по умолчанию в качестве
38
            → результирующего.</para>
/// </summary>
39
            /// <param name="defaultValue"><para>The result default
            → value.</para><para>Результирующее значение по умолчанию.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
41
            protected SetterBase(TResult defaultValue) => _result = defaultValue;
42
            /// <summary>
44
            /// <para>Sets the passed value as the result.</para>
45
            /// <para>Устанавливает переданное значение в качестве результирующего.</para>
46
            /// </summary>
47
            /// <param name="value"><para>The result value.</para><para>Результирующее
48
                значение.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public void Set(TResult value) => _result = value;
50
        }
5.1
52
    ./csharp/Platform.Setters/Setter[TResult, TDecision].cs
1.2
   using System.Collections.Generic;
   using System.Runtime.CompilerServices;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Setters
6
   {
        public class Setter<TResult, TDecision> : SetterBase<TResult>
9
           private readonly TDecision _trueValue;
private readonly TDecision _falseValue;
10
11
12
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
13
            public Setter(TDecision trueValue, TDecision falseValue, TResult defaultValue)
                : base(defaultValue)
            {
16
                _trueValue = trueValue;
                _falseValue = falseValue;
```

```
19
20
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
21
            public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
            → default) { }
23
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
24
            public Setter(TResult defaultValue) : base(defaultValue) { }
26
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter() { }
2.8
29
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
30
            public TDecision SetAndReturnTrue(TResult value)
31
32
                _result = value;
33
                return _trueValue;
            }
35
36
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
37
            public TDecision SetAndReturnFalse(TResult value)
38
39
                 _result = value;
40
                return _falseValue;
41
            }
42
43
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
44
            public TDecision SetFirstAndReturnTrue(IList<TResult> list)
45
46
                result = list[0];
                return _trueValue;
48
            }
50
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
51
            public TDecision SetFirstAndReturnFalse(IList<TResult> list)
53
                 _result = list[0];
54
                return _falseValue;
55
            }
56
        }
57
    ./csharp/Platform.Setters/Setter[TResult].cs
   using System.Runtime.CompilerServices;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
3
4
   namespace Platform.Setters
6
        public class Setter<TResult> : Setter<TResult, bool>
7
8
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
9
            public Setter(TResult defaultValue) : base(true, false, defaultValue) { }
10
11
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
12
            public Setter() : base(true, false) { }
13
        }
14
15
    ./csharp/Platform.Setters.Tests/SetterTests.cs
1.4
   using Xunit;
   namespace Platform.Setters.Tests
3
4
        public class SetterTests
5
            [Fact]
            public void ParameterlessConstructedSetterTest()
                Setter<int> setter = new Setter<int>();
10
                Assert.Equal(default, setter.Result);
            }
12
            [Fact]
14
            public void ConstructedWithDefaultValueSetterTest()
15
16
                Setter<int> setter = new Setter<int>(9);
17
                Assert.Equal(9, setter.Result);
18
            }
19
```

```
[Fact]
public void MethodsWithBooleanReturnTypeTest()
    Setter<int> setter = new Setter<int>();
    Assert.True(setter.SetAndReturnTrue(1));
    Assert.Equal(1, setter.Result);
    Assert.False(setter.SetAndReturnFalse(2));
    Assert.Equal(2, setter.Result);
    Assert.True(setter.SetFirstAndReturnTrue(new int[] { 3 }));
    Assert.Equal(3, setter.Result);
    Assert.False(setter.SetFirstAndReturnFalse(new int[] { 4 }));
    Assert.Equal(4, setter.Result);
}
[Fact]
public void MethodsWithIntegerReturnTypeTest()
    Setter<int, int> setter = new Setter<int, int>(1, 0);
    Assert.Equal(1, setter.SetAndReturnTrue(1));
    Assert.Equal(1, setter.Result);
Assert.Equal(0, setter.SetAndReturnFalse(2));
    Assert.Equal(2, setter.Result);
    Assert.Equal(1, setter.SetFirstAndReturnTrue(new int[] { 3 }));
    Assert.Equal(3, setter.Result);
    Assert.Equal(0, setter.SetFirstAndReturnFalse(new int[] { 4 }));
    Assert.Equal(4, setter.Result);
}
```

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46

47

48

49 }

}

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