```
LinksPlatform's Platform Setters Class Library
    ./csharp/Platform.Setters/SetterBase.cs
   using System.Runtime.CompilerServices;
   using Platform.Interfaces;
   #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>
       /// 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>
25
            /// </summary>
            public TResult Result => _result;
27
2.8
            /// <summary>
29
            /// <para>Initializes a new instance of the SetterBase class.</para>
30
            /// <para>Инициализирует новый экземпляр класса SetterBase.</para>
31
            /// </summary>
32
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
33
            protected SetterBase() { }
35
            /// <summary>
            /// <para>Initializes a new instance of the SetterBase class using the passed-in value
37
               as the default result.</para>
            /// <para>Инициализирует новый экземпляр класса SetterBase, используя переданное
38
            → значение в качестве результирующего по умолчанию.</para>
            /// </summary>
39
            /// <param name="defaultValue"><para>The default result
                value.</para><para>Результирующее значение по умолчанию.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            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)]
49
            public void Set(TResult value) => _result = value;
       }
51
52
     ./csharp/Platform.Setters/Setter[TResult, TDecision].cs
   using System.Collections.Generic;
   using System.Runtime.CompilerServices;
3
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
   namespace Platform.Setters
7
       public class Setter<TResult, TDecision> : SetterBase<TResult>
9
           private readonly TDecision _trueValue;
private readonly TDecision _falseValue;
10
11
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
13
            public Setter(TDecision trueValue, TDecision falseValue, TResult defaultValue)
14
                : base(defaultValue)
15
                _trueValue = trueValue;
```

```
_falseValue = falseValue;
18
            }
20
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
            → default) { }
23
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TResult defaultValue) : base(defaultValue) { }
25
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
27
            public Setter() { }
28
29
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
30
            public TDecision SetAndReturnTrue(TResult value)
31
                 _result = value;
33
                return _trueValue;
34
35
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
37
            public TDecision SetAndReturnFalse(TResult value)
38
                 _result = <mark>value</mark>;
40
                return _falseValue;
41
42
43
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
44
            public TDecision SetFirstAndReturnTrue(IList<TResult> list)
45
                _result = list[0];
47
48
                return _trueValue;
            }
49
50
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public TDecision SetFirstAndReturnFalse(IList<TResult> list)
52
53
                 result = list[0];
54
                return _falseValue;
55
            }
56
        }
57
58
     ./csharp/Platform.Setters/Setter[TResult].cs
1.3
   using System.Runtime.CompilerServices;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5
   namespace Platform.Setters
   {
6
        public class Setter<TResult> : Setter<TResult, bool>
7
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TResult defaultValue) : base(true, false, defaultValue) { }
11
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
12
            public Setter() : base(true, false) { }
13
14
   }
15
     ./csharp/Platform.Setters.Tests/SetterTests.cs
   using Xunit;
2
   namespace Platform.Setters.Tests
3
        public class SetterTests
5
            lFactl
            public void ParameterlessConstructedSetterTest()
                Setter<int> setter = new Setter<int>();
10
                Assert.Equal(default, setter.Result);
11
            }
12
13
            [Fact]
14
15
            public void ConstructedWithDefaultValueSetterTest()
16
                Setter<int> setter = new Setter<int>(9);
17
                Assert.Equal(9, setter.Result);
18
```

```
}
19
20
            [Fact]
21
            public void MethodsWithBooleanReturnTypeTest()
23
                Setter<int> setter = new Setter<int>();
24
                Assert.True(setter.SetAndReturnTrue(1));
25
                Assert.Equal(1, setter.Result);
26
                Assert.False(setter.SetAndReturnFalse(2));
27
                Assert.Equal(2, setter.Result);
28
                Assert.True(setter.SetFirstAndReturnTrue(new int[] { 3 }));
                Assert.Equal(3, setter.Result);
                Assert.False(setter.SetFirstAndReturnFalse(new int[] { 4 }));
31
32
                Assert.Equal(4, setter.Result);
            }
33
34
            [Fact]
            public void MethodsWithIntegerReturnTypeTest()
36
37
                Setter<int, int> setter = new Setter<int, int>(1, 0);
38
                Assert.Equal(1, setter.SetAndReturnTrue(1));
39
                Assert.Equal(1, setter.Result);
40
                Assert.Equal(0, setter.SetAndReturnFalse(2));
41
                Assert.Equal(2, setter.Result);
                Assert.Equal(1, setter.SetFirstAndReturnTrue(new int[] { 3 }));
43
                Assert.Equal(3, setter.Result);
Assert.Equal(0, setter.SetFirstAndReturnFalse(new int[] { 4 }));
44
45
                Assert.Equal(4, setter.Result);
46
            }
47
       }
48
   }
49
```

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