```
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>Represents a base implementation for an setter that allows you to set a passed
9
           value to it as the result value.</para>
        /// <para>Представляет базовую реализацию для установщика, который позволяет установить
10
        \rightarrow переданное ему значение в качестве результирующего значения.
11
        /// <typeparam name="TResult"><para>Type of result value.</para><para>Тип результирующего
           значения.</para></typeparam>
        /// <remarks>
13
        /// Must be class, not struct (in order to persist access to Result property value).
14
        /// </remarks>
15
        public abstract class SetterBase<TResult> : ISetter<TResult>
16
17
            /// <summary>
18
            /// <para>Represents the result value.</para>
19
            /// <para>Представляет результирующие значение.</para>
20
            /// </summary>
            protected TResult _result;
22
23
            /// <summary>
24
            /// <para>Returns result value.</para>
25
            /// <para>Возвращает результирующее значение.</para>
            /// </summary>
27
28
            public TResult Result => _result;
29
            /// <summary>
30
            /// <para>Initializes a new instance of the SetterBase class.</para>
31
            /// <para>Инициализирует новый экземпляр класса SetterBase.</para>
32
            /// </summary>
33
34
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            protected SetterBase() { }
3.5
36
            /// <summary>
            /// <para>Initializes a new instance of the SetterBase class using the passed-in value
38
               as the default result.</para>
            /// <para>Инициализирует новый экземпляр класса SetterBase, используя переданное
39
               значение в качестве результирующего по умолчанию. </para>
            /// </summary>
40
            /// <param name="defaultValue"><para>The default result
                value.</para><para>Результирующее значение по умолчанию.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
42
            protected SetterBase(TResult defaultValue) => _result = defaultValue;
43
44
            /// <summary>
45
            /// <para>Sets the passed value as the result.</para>
46
            /// <para>Устанавливает переданное значение в качестве результирующего.</para>
47
            /// </summary>
48
            /// <param name="value"><para>The result value.</para><para>Результирующее
49
               значение.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public void Set(TResult value) => _result = value;
51
52
53
    ./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
6
   namespace Platform.Setters
        public class Setter<TResult, TDecision> : SetterBase<TResult>
            private readonly TDecision _trueValue;
private readonly TDecision _falseValue;
10
11
12
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TDecision trueValue, TDecision falseValue, TResult defaultValue)
14
                : base(defaultValue)
```

```
{
16
                 trueValue = trueValue;
17
                _falseValue = falseValue;
19
20
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
21
            public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
22
            → default) { }
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
24
            public Setter(TResult defaultValue) : base(defaultValue) { }
25
26
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
27
            public Setter() { }
28
29
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
30
            public TDecision SetAndReturnTrue(TResult value)
32
                 _result = <mark>value</mark>;
33
                return _trueValue;
34
            }
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)
46
                 result = list[0];
47
                return _trueValue;
49
50
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
51
            public TDecision SetFirstAndReturnFalse(IList<TResult> list)
52
53
                _result = list[0];
54
                return _falseValue;
55
            }
        }
57
   }
58
     ./csharp/Platform.Setters/Setter[TResult].cs
1.3
   using System.Runtime.CompilerServices;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
3
   namespace Platform.Setters
5
   {
        public class Setter<TResult> : Setter<TResult, bool>
8
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TResult defaultValue) : base(true, false, defaultValue) { }
10
11
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter() : base(true, false) { }
13
        }
14
   }
15
    ./csharp/Platform.Setters.Tests/SetterTests.cs
1.4
   using Xunit;
   namespace Platform.Setters.Tests
4
        public class SetterTests
5
            [Fact]
            public void ParameterlessConstructedSetterTest()
                Setter<int> setter = new Setter<int>();
10
                Assert.Equal(default, setter.Result);
11
            }
12
13
            [Fact]
14
            public void ConstructedWithDefaultValueSetterTest()
16
```

```
Setter<int> setter = new Setter<int>(9);
17
                 Assert.Equal(9, setter.Result);
18
            }
19
            [Fact]
21
            public void MethodsWithBooleanReturnTypeTest()
22
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));
                 Assert.Equal(2, setter.Result);
                 Assert.True(setter.SetFirstAndReturnTrue(new int[] { 3 }));
29
30
                 Assert.Equal(3, setter.Result);
31
                 Assert.False(setter.SetFirstAndReturnFalse(new int[] { 4 }));
                 Assert.Equal(4, setter.Result);
32
            }
33
34
            [Fact]
35
            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);
                 Assert.Equal(0, setter.SetAndReturnFalse(2));
41
                 Assert.Equal(2, setter.Result);
42
                Assert.Equal(1, setter.SetFirstAndReturnTrue(new int[] { 3 }));
Assert.Equal(3, setter.Result);
43
44
                 Assert.Equal(0, setter.SetFirstAndReturnFalse(new int[] { 4 }));
45
                 Assert.Equal(4, setter.Result);
46
            }
        }
48
   }
49
```

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