```
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 installer that sets the passed value as the
9
           new state.</para>
       /// <para>Предоставляет базовую реализацию для установщика, который устанавливает переданное
10
           значение в качестве нового состояния. </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
            /// <рага>Представляет диапазон между минимальным и максимальным значениями.</para>
25
            /// </summary>
            public TResult Result => _result;
27
2.8
            /// <summary>
29
            /// <para>Represents a range between minumum and maximum values.</para>
30
            /// <para>Представляет диапазон между минимальным и максимальным значениями.</para>
31
            /// </summary>
32
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
33
            protected SetterBase() { }
35
            /// <summary>
            /// <para>Represents a range between minumum and maximum values.</para>
37
            /// <para>Представляет диапазон между минимальным и максимальным значениями.</para>
38
            /// </summary>
39
            /// <param name="minimum"><para>The minimum value of the range.</para><para>Минимальное
40
            → значение диапазона.
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
41
            protected SetterBase(TResult defaultValue) => _result = defaultValue;
42
            /// <summary>
44
            /// <para>Represents a range between minumum and maximum values.</para>
45
            /// <para>Представляет диапазон между минимальным и максимальным значениями.</para>
            /// </summary>
47
            /// <param name="minimum"><para>The minimum value of the range.</para><para>Минимальное
48
               значение диапазона.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public void Set(TResult value) => _result = value;
       }
5.1
   }
52
    ./csharp/Platform.Setters/Setter[TResult, TDecision].cs
   using System.Collections.Generic;
   using System.Runtime.CompilerServices;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
   namespace Platform.Setters
       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)
16
                _trueValue = trueValue;
                _falseValue = falseValue;
18
            }
```

```
20
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
22
             → default) { }
23
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
24
            public Setter(TResult defaultValue) : base(defaultValue) { }
25
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
27
            public Setter() { }
28
29
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
30
31
            public TDecision SetAndReturnTrue(TResult value)
                 _result = <mark>value</mark>;
33
                return _trueValue;
34
35
36
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
37
            public TDecision SetAndReturnFalse(TResult value)
38
                 _result = value;
40
                return _falseValue;
41
            }
42
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
44
            public TDecision SetFirstAndReturnTrue(IList<TResult> list)
45
46
                 result = list[0];
47
                return _trueValue;
            }
49
50
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
51
            public TDecision SetFirstAndReturnFalse(IList<TResult> list)
52
53
                 _result = list[0];
                return _falseValue;
55
            }
56
        }
57
58
     ./csharp/Platform.Setters/Setter[TResult].cs
1.3
   using System.Runtime.CompilerServices;
1
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
   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
1.4
     ./csharp/Platform.Setters.Tests/SetterTests.cs
   using Xunit;
1
2
   namespace Platform.Setters.Tests
        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
20
```

```
[Fact]
21
22
            public void MethodsWithBooleanReturnTypeTest()
23
                 Setter<int> setter = new Setter<int>();
24
                 Assert.True(setter.SetAndReturnTrue(1));
                 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);
30
                 Assert.False(setter.SetFirstAndReturnFalse(new int[] { 4 }));
31
                 Assert.Equal(4, setter.Result);
             }
34
             [Fact]
            public void MethodsWithIntegerReturnTypeTest()
36
37
                 Setter<int, int> setter = new Setter<int, int>(1, 0);
                 Assert.Equal(1, setter.SetAndReturnTrue(1));
39
                 Assert.Equal(1, setter.Result);
Assert.Equal(0, setter.SetAndReturnFalse(2));
Assert.Equal(2, setter.Result);
40
41
42
                 Assert.Equal(1, setter.SetFirstAndReturnTrue(new int[] { 3 }));
43
                 Assert.Equal(3, setter.Result);
44
                 Assert.Equal(0, setter.SetFirstAndReturnFalse(new int[] { 4 }));
                 Assert.Equal(4, setter.Result);
46
            }
47
        }
48
   }
49
```

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