```
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
7
        /// <summary>
        /// <para>Предоставляет базовую реализацию для установщика, который устанавливает переданное
9
           значение в качестве нового состояния</para>
        /// <para>Provides a base for an installer that sets the passed value as the new state</para>
10
        /// </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>
25
            /// </summary>
26
            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.</para></param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
41
            protected SetterBase(TResult defaultValue) => _result = defaultValue;
42
43
            /// <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;
50
        }
51
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
5
   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)
14
                : base(defaultValue)
15
            {
16
                _trueValue = trueValue;
                _falseValue = falseValue;
18
            }
19
```

20

```
[MethodImpl(MethodImplOptions.AggressiveInlining)]
21
            public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
               default) { }
23
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TResult defaultValue) : base(defaultValue) { }
25
26
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
27
            public Setter() { }
28
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
30
            public TDecision SetAndReturnTrue(TResult value)
31
32
                 _result = <mark>value</mark>;
33
                return _trueValue;
            }
35
36
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
37
            public TDecision SetAndReturnFalse(TResult value)
38
39
                 _result = value
40
                return _falseValue;
            }
42
43
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
44
            public TDecision SetFirstAndReturnTrue(IList<TResult> list)
45
46
                _result = list[0];
47
                return _trueValue;
48
            }
50
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public TDecision SetFirstAndReturnFalse(IList<TResult> list)
52
53
                 _result = list[0];
                return _falseValue;
55
56
        }
57
   }
58
    ./csharp/Platform.Setters/Setter[TResult].cs
   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> : Setter<TResult, bool>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
9
            public Setter(TResult defaultValue) : base(true, false, defaultValue) { }
10
11
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
12
            public Setter() : base(true, false) { }
       }
14
15
1.4 ./csharp/Platform.Setters.Tests/SetterTests.cs
   using Xunit;
1
   namespace Platform.Setters.Tests
3
        public class SetterTests
5
6
            [Fact]
            public void ParameterlessConstructedSetterTest()
                Setter<int> setter = new Setter<int>();
                Assert.Equal(default, setter.Result);
            }
12
13
            [Fact]
14
            public void ConstructedWithDefaultValueSetterTest()
15
                Setter<int> setter = new Setter<int>(9);
17
                Assert.Equal(9, setter.Result);
18
19
20
            [Fact]
```

```
public void MethodsWithBooleanReturnTypeTest()
22
23
                Setter<int> setter = new Setter<int>();
24
                Assert.True(setter.SetAndReturnTrue(1));
25
                Assert.Equal(1, setter.Result);
                Assert.False(setter.SetAndReturnFalse(2));
27
                Assert.Equal(2, setter.Result);
28
                Assert.True(setter.SetFirstAndReturnTrue(new int[] { 3 }));
29
                Assert.Equal(3, setter.Result);
                Assert.False(setter.SetFirstAndReturnFalse(new int[] { 4 }));
31
                Assert.Equal(4, setter.Result);
32
            }
34
35
            [Fact]
            public void MethodsWithIntegerReturnTypeTest()
37
                Setter<int, int> setter = new Setter<int, int>(1, 0);
38
                Assert.Equal(1, setter.SetAndReturnTrue(1));
                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 }));
42
43
                Assert.Equal(3, setter.Result);
44
                Assert.Equal(0, setter.SetFirstAndReturnFalse(new int[] { 4 }));
45
                Assert.Equal(4, setter.Result);
            }
47
        }
48
   }
49
```

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