```
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
7
        /// <summary>
       /// < \verb|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>The type of result value.</para><para>Тип
12
           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>Gets result value.</para>
25
            /// <para>Возвращает результирующее значение.</para>
            /// </summary>
27
           public TResult Result => _result;
28
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 value.
            /// <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>Pезультирующее 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;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
   namespace Platform.Setters
6
        /// <summary>
       /// <para>Represents a implementation for an setter that allows you to set a passed value to
9
          it as the result value.</para>
       /// <para>Представляет реализацию для установщика, который позволяет установить переданное
10
           ему значение в качестве результирующего значения.</para>
       /// </summary>
11
```

```
/// <typeparam name="TResult"><para>The type of result value.</para><para>Тип
12
           результирующего значения.</para></typeparam>
            <remarks>
13
        /// Must be class, not struct (in order to persist access to Result property value).
14
        /// </remarks>
15
        public class Setter<TResult, TDecision> : SetterBase<TResult>
17
            private readonly TDecision _trueValue;
private readonly TDecision _falseValue;
19
20
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
21
            public Setter(TDecision trueValue, TDecision falseValue, TResult defaultValue)
22
23
                 : base(defaultValue)
24
                _trueValue = trueValue;
                _falseValue = falseValue;
26
28
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
29
            public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
            → default) { }
31
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public Setter(TResult defaultValue) : base(defaultValue) { }
33
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
35
36
            public Setter() { }
37
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
38
            public TDecision SetAndReturnTrue(TResult value)
39
                 result = value;
41
                return _trueValue;
            }
43
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
45
            public TDecision SetAndReturnFalse(TResult value)
46
47
                 _result = <mark>value</mark>;
48
                return _falseValue;
            }
50
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
52
            public TDecision SetFirstAndReturnTrue(IList<TResult> list)
5.3
                 _result = list[0];
55
                return _trueValue;
56
            }
57
58
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public TDecision SetFirstAndReturnFalse(IList<TResult> list)
60
61
62
                 _result = list[0];
                return _falseValue;
63
            }
64
        }
66
     ./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
4
   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
    ./csharp/Platform.Setters.Tests/SetterTests.cs
1.4
   using Xunit;
   namespace Platform.Setters.Tests
3
```

```
public class SetterTests
        [Fact]
        public void ParameterlessConstructedSetterTest()
            Setter<int> setter = new Setter<int>();
            Assert.Equal(default, setter.Result);
        [Fact]
        public void ConstructedWithDefaultValueSetterTest()
            Setter<int> setter = new Setter<int>(9);
            Assert.Equal(9, setter.Result);
        }
        [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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