

## LinksPlatform's Platform.Setters Class Library

### ./SetterBase[TResult].cs

```
1 using System.Runtime.CompilerServices;
2
3 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5 namespace Platform.Setters
6 {
7     /// <remarks>
8     /// Must be class, not struct (in order to persist access to Result property value).
9     /// </remarks>
10    public abstract class SetterBase<TResult>
11    {
12        protected TResult _result;
13        public TResult Result => _result;
14        protected SetterBase() { }
15        protected SetterBase(TResult defaultValue) => _result = defaultValue;
16        [MethodImpl(MethodImplOptions.AggressiveInlining)]
17        public void Set(TResult value) => _result = value;
18    }
19 }
```

### ./Setter[TResult].cs

```
1 using System.Runtime.CompilerServices;
2
3 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5 namespace Platform.Setters
6 {
7     public class Setter<TResult> : SetterBase<TResult>
8     {
9         public Setter(TResult defaultValue) : base(defaultValue) { }
10
11        public Setter() { }
12
13        [MethodImpl(MethodImplOptions.AggressiveInlining)]
14        public bool SetAndReturnTrue(TResult value)
15        {
16            _result = value;
17            return true;
18        }
19
20        [MethodImpl(MethodImplOptions.AggressiveInlining)]
21        public bool SetAndReturnFalse(TResult value)
22        {
23            _result = value;
24            return false;
25        }
26    }
27 }
```

### ./Setter[TResult, TDecision].cs

```
1 using System.Collections.Generic;
2 using System.Runtime.CompilerServices;
3
4 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6 namespace Platform.Setters
7 {
8     public class Setter<TResult, TDecision> : SetterBase<TResult>
9     {
10        private readonly TDecision _trueValue;
11        private readonly TDecision _falseValue;
12
13        public Setter(TDecision trueValue, TDecision falseValue, TResult defaultValue)
14            : base(defaultValue)
15        {
16            _trueValue = trueValue;
17            _falseValue = falseValue;
18        }
19
20        public Setter(TDecision trueValue, TDecision falseValue) : this(trueValue, falseValue,
21            ↪ default) { }
22
23        public Setter(TResult defaultValue) : base(defaultValue) { }
24
25        public Setter() { }
26
27        [MethodImpl(MethodImplOptions.AggressiveInlining)]
28        public TDecision SetAndReturnTrue(TResult value)
```

```
28     {
29         _result = value;
30         return _trueValue;
31     }
32
33     [MethodImpl(MethodImplOptions.AggressiveInlining)]
34     public TDecision SetAndReturnFalse(TResult value)
35     {
36         _result = value;
37         return _falseValue;
38     }
39
40     [MethodImpl(MethodImplOptions.AggressiveInlining)]
41     public TDecision SetFirstAndReturnTrue(ICollection<TResult> list)
42     {
43         _result = list[0];
44         return _trueValue;
45     }
46
47     [MethodImpl(MethodImplOptions.AggressiveInlining)]
48     public TDecision SetFirstAndReturnFalse(ICollection<TResult> list)
49     {
50         _result = list[0];
51         return _falseValue;
52     }
53 }
54 }
```

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