```
LinksPlatform's Platform Scopes Class Library
     ./csharp/Platform.Scopes/Scope.cs
   using System;
   using System.Collections.Generic;
2
   using System.Reflection;
   using System.Linq;
using Platform.Interfaces;
4
   using Platform. Exceptions;
   using Platform.Disposables;
using Platform.Collections.Lists;
   using Platform. Reflection;
   using Platform.Singletons;
   using System.Runtime.CompilerServices;
11
12
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
13
14
15
   namespace Platform.Scopes
16
        /// <summary>
17
        /// <para>
18
        /// Represents the scope.
        /// </para>
20
        /// <para></para>
21
        /// </summary>
        /// <seealso cref="DisposableBase"/>
23
        public class Scope : DisposableBase
25
            /// <summary>
26
            /// <para>
27
            /// The auto explore.
            /// </para>
29
            /// <para></para>
30
            /// </summary>
            public static readonly Scope Global = new Scope(autoInclude: true, autoExplore: true);
33
            /// <summary>
            /// <para>
35
            /// The auto include.
36
            /// </para>
            /// <para></para>
38
            /// </summary>
39
            private readonly bool _autoInclude;
40
            /// <summary>
41
            /// <para>
42
            /// The auto explore.
            /// </para>
44
            /// <para></para>
45
            /// </summary>
46
            private readonly bool _autoExplore;
47
            /// <summary>
48
            /// <para>
            /// The stack.
50
            /// </para>
51
            /// <para></para>
52
            /// </summary>
53
            private readonly Stack<object> _dependencies = new Stack<object>();
54
            /// <summary>
55
            /// <para>
            /// The hash set.
57
            /// </para>
58
            /// <para></para>
59
            /// </summary>
60
            private readonly HashSet<object> _excludes = new HashSet<object>();
61
            /// <summary>
62
            /// <para>
            /// The hash set.
64
            /// </para>
65
            /// <para></para>
            /// </summary>
67
            private readonly HashSet<object> _includes = new HashSet<object>();
68
            /// <summary>
69
            /// <para>
            /// The hash set.
71
            /// </para>
72
            /// <para></para>
73
            /// </summary>
74
            private readonly HashSet<object> _blocked = new HashSet<object>();
75
            /// <summary>
            /// <para>
```

```
/// The type.
78
             /// </para>
             /// <para></para>
80
             /// </summary>
81
            private readonly Dictionary<Type, object> _resolutions = new Dictionary<Type, object>();
83
             /// <summary>
84
             /// <para>
85
             /// Initializes a new <see cref="Scope"/> instance.
86
             /// </para>
87
             /// <para></para>
             /// </summary>
             /// <param name="autoInclude">
90
             /// <para>A auto include.</para>
91
             /// <para></para>
             /// </param>
93
             /// <param name="autoExplore">
94
             /// <para>A auto explore.</para>
             /// <para></para>
96
             /// </param>
97
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
98
             public Scope(bool autoInclude, bool autoExplore)
99
100
                 _autoInclude = autoInclude;
                 _autoExplore = autoExplore;
102
             }
103
104
             /// <summary>
105
             /// <para>
             /// Initializes a new <see cref="Scope"/> instance.
107
             /// </para>
108
             /// <para></para>
109
             /// </summary>
110
             /// <param name="autoInclude">
111
             /// <para>A auto include.</para>
             /// <para></para>
             /// </param>
114
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
115
116
             public Scope(bool autoInclude) : this(autoInclude, false) { }
117
             /// <summary>
118
             /// <para>
119
             /// Initializes a new <see cref="Scope"/> instance.
120
             /// </para>
121
             /// <para></para>
             /// </summary>
123
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
124
            public Scope() { }
126
             #region Exclude
127
128
             /// <summary>
             /// <para>
130
             /// Excludes the assembly of.
131
             /// </para>
132
             /// <para></para>
133
             /// </summary>
134
             /// <typeparam name="T">
135
             /// <para>The .</para>
             /// <para></para>
137
             /// </typeparam>
138
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
139
             public void ExcludeAssemblyOf<T>() => ExcludeAssemblyOfType(typeof(T));
140
141
             /// <summary>
             /// <para>
143
             /// Excludes the assembly of type using the specified type.
144
             /// </para>
145
             /// <para></para>
146
             /// </summary>
147
             /// <param name="type">
148
             /// <para>The type.</para>
             /// <para></para>
150
             /// </param>
151
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public void ExcludeAssemblyOfType(Type type) => ExcludeAssembly(type.GetAssembly());
153
154
             /// <summary>
```

```
/// <para>
156
             /// Excludes the assembly using the specified assembly.
             /// </para>
158
             /// <para></para>
159
             /// </summary>
             /// <param name="assembly">
161
             /// <para>The assembly.</para>
162
             /// <para></para>
163
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
165
             public void ExcludeAssembly(Assembly assembly) =>
166
             → assembly.GetCachedLoadableTypes().ForEach(Exclude);
167
             /// <summary>
168
             /// <para>
169
             /// Excludes this instance.
170
             /// </para>
171
             /// <para></para>
172
             /// </summary>
173
             /// <typeparam name="T">
             /// <para>The .</para>
175
             /// <para></para>
176
             /// </typeparam>
177
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
178
             public void Exclude<T>() => Exclude(typeof(T));
179
180
             /// <summary>
181
             /// <para>
182
             /// Excludes the object.
183
             /// </para>
184
             /// <para></para>
185
             /// </summary>
186
             /// <param name="@object">
187
             /// <para>The object.</para>
188
             /// <para></para>
189
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
191
             public void Exclude(object @object) => _excludes.Add(@object);
192
193
194
             #endregion
195
             #region Include
197
             /// <summary>
             /// <para>
199
             /// Includes the assembly of.
200
             /// </para>
201
             /// <para></para>
202
             /// </summary>
203
             /// <typeparam name="T">
204
             /// <para>The .</para>
             /// <para></para>
206
             /// </typeparam>
207
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
208
             public void IncludeAssemblyOf<T>() => IncludeAssemblyOfType(typeof(T));
209
210
             /// <summary>
211
             /// <para>
212
             /// Includes the assembly of type using the specified type.
213
             /// </para>
             /// <para></para>
215
             /// </summary>
/// <param name="type">
216
217
             /// <para>The type.</para>
             /// <para></para>
219
             /// </param>
220
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public void IncludeAssemblyOfType(Type type) => IncludeAssembly(type.GetAssembly());
222
223
             /// <summary>
224
             /// <para>
225
             /// \bar{\text{Includes}} the assembly using the specified assembly.
226
             /// </para>
             /// <para></para>
228
             /// </summary>
229
             /// <param name="assembly">
             /// <para>The assembly.</para>
231
             /// <para></para>
232
```

```
/// </param>
233
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
235
             public void IncludeAssembly(Assembly assembly) =>
                 assembly.GetExportedTypes().ForEach(Include);
236
             /// <summary>
237
             /// <para>
238
             /// Includes this instance.
239
             /// </para>
240
             /// <para></para>
241
             /// </summary>
242
             /// <typeparam name="T">
243
             /// <para>The .</para>
             /// <para></para>
245
             /// </typeparam>
246
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public void Include<T>()
248
249
                 var types = Types<T>.Array;
250
                 if (types.Length > 0)
251
252
                      types.ForEach(Include);
                 }
254
                 else
                 {
256
                      Include(typeof(T));
257
                 }
258
             }
259
260
             /// <summary>
             /// <para>
262
             /// Includes the object.
263
             /// </para>
264
             /// <para></para>
265
             /// </summary>
266
             /// <param name="@object">
267
             /// <para>The object.</para>
             /// <para></para>
269
             /// </param>
270
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public void Include(object @object)
272
273
                 if (@object == null)
274
                 {
275
                      return;
276
                 }
277
                     (_includes.Add(@object))
278
279
                      var type = @object as Type;
280
                      if (type != null)
281
282
283
                          type.GetInterfaces().ForEach(Include);
                          Include(type.GetBaseType());
284
285
                 }
286
             }
287
288
             #endregion
289
             #region Use
291
292
             /// <remarks>
293
             /// TODO: Use Default[T].Instance if the only constructor object has is parameterless.
294
             /// TODO: Think of interface chaining IDoubletLinks[T] (default) -> IDoubletLinks[T]
                 (checker) -> IDoubletLinks[T] (synchronizer) (may be UseChain[IDoubletLinks[T],
                 Types[DefaultLinks, DefaultLinksDependencyChecker, DefaultSynchronizedLinks]]
             /// TODO: Add support for factories
296
             /// </remarks>
297
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public T Use<T>()
299
300
                 if (_excludes.Contains(typeof(T)))
301
                 {
302
                      throw new InvalidOperationException($\"Type {typeof(T).Name} is excluded and
303

→ cannot be used.");

304
                     (_autoInclude)
305
```

```
Include<T>();
307
                 }
                    (!TryResolve(out T resolved))
309
                 i f
310
                      throw new InvalidOperationException($ "Dependency of type {typeof(T).Name}
311

    cannot be resolved.");
312
                    (!_autoInclude)
314
                      Include<T>();
315
                 Use(resolved);
317
                 return resolved;
318
             }
320
321
             /// <summary>
             /// <para>
322
             /// Uses the singleton using the specified factory.
323
             /// </para>
             /// <para></para>
325
             /// </summary>
326
             /// <typeparam name="T">
327
             /// <para>The .</para>
             /// <para></para>
329
             /// </typeparam>
330
             /// <param name="factory">
             /// <para>The factory.</para>
332
             /// <para></para>
333
             /// </param>
334
             /// <returns>
335
             /// <para>The</para>
336
             /// <para></para>
337
             /// </returns>
338
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
339
             public T UseSingleton<T>(IFactory<T> factory) => UseAndReturn(Singleton.Get(factory));
340
341
             /// <summary>
342
             /// <para>
343
             /// Uses the singleton using the specified creator.
             /// </para>
345
             /// <para></para>
346
             /// </summary>
347
             /// <typeparam name="T">
348
             /// <para>The .</para>
349
             /// <para></para>
350
             /// </typeparam>
             /// <param name="creator">
352
             /// <para>The creator.</para>
353
             /// <para></para>
354
             /// </param>
355
             /// <returns>
356
             /// <para>The</para>
357
             /// <para></para>
             /// </returns>
359
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
360
             public T UseSingleton<T>(Func<T> creator) => UseAndReturn(Singleton.Get(creator));
361
362
             /// <summary>
363
             /// <para>
             /// Uses the and return using the specified object.
365
             /// </para>
366
             /// <para></para>
367
             /// </summary>
368
             /// <typeparam name="T">
369
             /// <para>The .</para>
370
             /// <para></para>
             /// </typeparam>
372
             /// <param name="@object">
373
             /// <para>The object.</para>
             /// <para></para>
375
             /// </param>
376
             /// <returns>
377
             /// <para>The object.</para>
378
             /// <para></para>
379
             /// </returns>
380
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
381
382
             public T UseAndReturn<T>(T @object)
383
```

```
Use(@object);
384
                 return @object;
385
             }
386
387
             /// <summary>
388
             /// <para>
389
             /// Uses the object.
390
             /// </para>
391
             /// <para></para>
392
             /// </summary>
             /// <param name="@object">
394
             /// <para>The object.</para>
395
             /// <para></para>
396
             /// </param>
397
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
398
             public void Use(object @object)
399
                  Include(@object);
401
                  _dependencies.Push(@object);
402
403
404
             #endregion
406
             #region Resolve
407
408
             /// <summary>
409
             /// <para>
/// Determines whether this instance try resolve.
410
411
             /// </para>
412
             /// <para></para>
413
             /// </summary>
414
             /// <typeparam name="T">
             /// <para>The .</para>
416
             /// <para></para>
417
             /// </typeparam>
418
             /// <param name="resolved">
419
             /// <para>The resolved.</para>
420
             /// <para></para>
421
             /// </param>
             /// <returns>
423
             /// <para>The result.</para>
424
             /// <para></para>
425
             /// </returns>
426
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
427
             public bool TryResolve<T>(out T resolved)
428
                  resolved = default;
430
431
                  var result = TryResolve(typeof(T), out object resolvedObject);
                  if (result)
432
                  {
433
                      resolved = (T)resolvedObject;
434
                  return result;
436
             }
438
             /// <summary>
439
             /// <para>
             /// Determines whether this instance try resolve.
441
             /// </para>
442
             /// <para></para>
443
             /// </summary>
444
             /// <param name="requiredType">
445
             /// <para>The required type.</para>
446
             /// <para></para>
             /// </param>
448
             /// <param name="resolved">
449
             /// <para>The resolved.</para>
450
             /// <para></para>
451
             /// </param>
452
             /// <returns>
             /// <para>The bool</para>
454
             /// <para></para>
455
             /// </returns>
456
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public bool TryResolve(Type requiredType, out object resolved)
458
459
                  resolved = null;
                  if (!_blocked.Add(requiredType))
461
```

```
return false;
    }
    try
        if (_excludes.Contains(requiredType))
        {
            return false;
        if (_resolutions.TryGetValue(requiredType, out resolved))
        {
            return true:
        }
           (_{autoExplore})
        {
            IncludeAssemblyOfType(requiredType);
        var resultInstances = new List<object>();
        var resultConstructors = new List<ConstructorInfo>();
        foreach (var include in _includes)
            if (!_excludes.Contains(include))
                var type = include as Type;
                if (type != null)
                    if (requiredType.IsAssignableFrom(type))
                    {
                         resultConstructors.AddRange(GetValidConstructors(type));
                    else if (type.GetTypeInfo().IsGenericTypeDefinition &&
                        requiredType.GetTypeInfo().IsGenericType &&
                        type.GetInterfaces().Any(x => x.Name == requiredType.Name))
                         var genericType =
                             type.MakeGenericType(requiredType.GenericTypeArguments);
                         if (requiredType.IsAssignableFrom(genericType))
                             resultConstructors.AddRange(GetValidConstructors(genericType
                             \rightarrow ));
                         }
                    }
                }
                else if (requiredType.IsInstanceOfType(include) |
                    requiredType.IsAssignableFrom(include.GetType()))
                    resultInstances.Add(include);
            }
           (resultInstances.Count == 0 && resultConstructors.Count == 0)
            return false;
        }
        else if (resultInstances.Count > 0)
            resolved = resultInstances[0];
        }
        else
            SortConstructors(resultConstructors);
            if (!TryResolveInstance(resultConstructors, out resolved))
                return false;
            }
        _resolutions.Add(requiredType, resolved);
    }
    finally
    {
        _blocked.Remove(requiredType);
    }
}
/// <summary>
/// <para>
/// Sorts the constructors using the specified result constructors.
/// </para>
```

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465

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515 516

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518 519

520

521 522

523 524

525 526

527

528

529

530 531

533

534

535

```
/// <para></para>
536
             /// </summary>
537
             /// <param name="resultConstructors">
538
             /// <para>The result constructors.</para>
539
             /// <para></para>
             /// </param>
541
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
542
             protected virtual void SortConstructors(List<ConstructorInfo> resultConstructors) =>
543
                 resultConstructors.Sort((x, y) =>
                 -x.GetParameters().Length.CompareTo(y.GetParameters().Length));
544
             /// <summary>
545
             /// <para>
546
             /// Determines whether this instance try resolve instance.
547
             /// </para>
548
             /// <para></para>
549
             /// </summary>
             /// <param name="constructors">
551
             /// <para>The constructors.</para>
552
             /// <para></para>
553
             /// </param>
554
             /// <param name="resolved">
555
             /// <para>The resolved.</para>
556
             /// <para></para>
557
             /// </param>
558
             /// <returns>
559
             /// <para>The bool</para>
             /// <para></para>
561
             /// </returns>
562
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
563
             protected virtual bool TryResolveInstance(List<ConstructorInfo> constructors, out object
                 resolved)
565
                 for (var i = 0; i < constructors.Count; i++)</pre>
566
567
                      try
568
569
                          var resultConstructor = constructors[i];
570
                          if (TryResolveConstructorArguments(resultConstructor, out object[]
571
                               arguments))
                          {
572
573
                               resolved = resultConstructor.Invoke(arguments);
574
                               return true;
                          }
575
                      }
576
                      catch (Exception exception)
577
578
                          exception.Ignore();
580
581
                 resolved = null;
582
                 return false;
583
             }
585
             /// <summary>
586
             /// <para>
587
             /// Gets the valid constructors using the specified type.
588
             /// </para>
589
             /// <para></para>
             /// </summary>
591
             /// <param name="type">
592
             /// <para>The type.</para>
             /// <para></para>
594
             /// </param>
595
             /// <returns>
596
             /// <para>The constructors.</para>
             /// <para></para>
598
             /// </returns>
599
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             private ConstructorInfo[] GetValidConstructors(Type type)
601
602
                 var constructors = type.GetConstructors();
603
                 if (!_autoExplore)
605
                      constructors = constructors.ToArray(x =>
606
608
                          var parameters = x.GetParameters();
                          for (var i = 0; i < parameters.Length; i++)</pre>
609
```

```
610
                               if (!_includes.Contains(parameters[i].ParameterType))
612
                                    return false;
614
615
                           return true;
616
                      });
617
618
                  return constructors;
619
             }
620
621
             /// <summary>
622
             /// <para>
623
             /// Determines whether this instance try resolve constructor arguments.
             /// </para>
625
             /// <para></para>
626
             /// </summary>
627
             /// <param name="constructor">
628
             /// <para>The constructor.</para>
629
             /// <para></para>
630
             /// </param>
631
             /// <param name="arguments">
632
             /// <para>The arguments.</para>
633
             /// <para></para>
             /// </param>
635
             /// <returns>
636
             /// <para>The bool</para>
637
             /// <para></para>
             /// </returns>
639
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
640
             private bool TryResolveConstructorArguments(ConstructorInfo constructor, out object[]
641
                 arguments)
642
                  var parameters = constructor.GetParameters();
643
                  arguments = new object[parameters.Length];
644
                  for (var i = 0; i < parameters.Length; i++)</pre>
645
646
                      if (!TryResolve(parameters[i].ParameterType, out object argument))
647
                      {
648
                           return false;
649
650
                      Use(argument);
651
652
                      arguments[i] = argument;
653
                  return true;
654
             }
655
656
657
             #endregion
658
             /// <summary>
659
             /// <para>
             /// Disposes the manual.
661
             /// </para>
662
             /// <para></para>
663
             /// </summary>
664
             /// <param name="manual">
665
             /// <para>The manual.</para>
666
             /// <para></para>
             /// </param>
668
             /// <param name="wasDisposed">
669
             /// <para>The was disposed.</para>
670
             /// <para></para>
671
             /// </param>
672
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
673
             protected override void Dispose(bool manual, bool wasDisposed)
675
                  if (!wasDisposed)
676
677
                      while (_dependencies.Count > 0)
678
679
                           _dependencies.Pop().DisposeIfPossible();
680
                      }
                  }
682
             }
683
         }
684
    }
685
```

```
./csharp/Platform.Scopes/Scope[TInclude].cs
   using System.Runtime.CompilerServices;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
   namespace Platform.Scopes
6
        /// <summary>
        /// <para>
        /// Represents the scope.
9
        /// </para>
10
        /// <para></para>
11
        /// </summary>
12
        /// <seealso cref="Scope"/>
13
       public class Scope<TInclude> : Scope
15
            /// <summary>
16
            /// <para>
17
            /// \bar{\text{Initializes}} a new <see cref="Scope"/> instance.
18
            /// </para>
19
            /// <para></para>
20
            /// </summary>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
22
            public Scope() : this(false, false) { }
23
24
            /// <summary>
25
            /// <para>
26
            /// Initializes a new <see cref="Scope"/> instance.
28
            /// </para>
            /// <para></para>
29
            /// </summary>
30
            /// <param name="autoInclude">
31
            /// <para>A auto include.</para>
32
            /// <para></para>
            /// </param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
35
            public Scope(bool autoInclude) : this(autoInclude, false) { }
36
37
            /// <summary>
38
            /// <para>
39
            /// Initializes a new <see cref="Scope"/> instance.
40
            /// </para>
41
            /// <para></para>
42
            /// </summary>
43
            /// <param name="autoInclude">
44
            /// <para>A auto include.</para>
45
            /// <para></para>
46
            /// </param>
47
            /// <param name="autoExplore">
48
            /// <para>A auto explore.</para>
49
            /// <para></para>
            /// </param>
51
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
52
            public Scope(bool autoInclude, bool autoExplore) : base(autoInclude, autoExplore) =>
               Include<TInclude>();
        }
54
55
1.3
    ./csharp/Platform.Scopes/Use.cs
   using System.Runtime.CompilerServices;
   using Platform.Disposables;
2
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Scopes
6
7
        /// <summary>
       /// <para>
9
        /// Represents the use.
10
        /// </para>
        /// <para></para>
12
        /// </summary>
13
        public static class Use<T>
14
15
            /// <summary>
16
            /// <para>
17
            /// Gets the single value.
            /// </para>
19
            /// <para></para>
```

```
/// </summary>
21
            public static T Single
22
23
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
                 get => Scope.Global.Use<T>();
26
27
            /// <summary>
28
            /// <para>
29
            /// Gets the new value.
            /// </para>
31
            /// <para></para>
/// </summary>
32
33
            public static Disposable<T> New
34
35
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
37
38
                     var scope = new Scope(autoInclude: true, autoExplore: true);
39
                     return new Disposable<T, Scope>(scope.Use<T>(), scope);
40
                 }
41
            }
        }
43
44
     ./csharp/Platform.Scopes.Tests/ScopeTests.cs
1.4
   using Xunit;
using Platform.Reflection;
2
   namespace Platform.Scopes.Tests
4
5
        /// <summary>
6
        /// <para>
7
        /// Represents the scope tests.
        /// </para>
9
        /// <para></para>
10
        /// </summary>
11
        public class ScopeTests
12
13
            /// <summary>
14
            /// <para>
15
            /// Defines the interface.
16
            /// </para>
17
            /// <para></para>
            /// </summary>
19
            public interface IInterface
21
            }
22
23
            /// <summary>
24
            /// <para>
^{25}
            /// Represents the .
            /// </para>
27
            /// <para></para>
28
            /// </summary>
29
            /// <seealso cref="IInterface"/>
30
            public class Class : IInterface
            }
33
34
            /// <summary>
35
            /// <para>
36
            /// Tests that single dependency test.
             /// </para>
            /// <para></para>
/// </summary>
39
40
             [Fact]
41
            public static void SingleDependencyTest()
42
43
                 using var scope = new Scope();
44
                 scope.IncludeAssemblyOf<IInterface>();
                 var instance = scope.Use<IInterface>();
46
                 Assert.IsType<Class>(instance);
47
            }
49
            /// <summary>
            /// <para>
            /// Tests that type parameters test.
52
             /// </para>
```

```
/// <para></para>
/// </summary>
[Fact]
public static void TypeParametersTest()
{
    using var scope = new Scope<Types<Class>>();
    var instance = scope.Use<IInterface>();
    Assert.IsType<Class>(instance);
}
```

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