```
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.
19
         /// </para>
/// <para></para>
20
21
         /// </summary>
22
         /// <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
             private readonly bool _autoInclude;
34
             private readonly bool _autoExplore;
             private readonly Stack<object> _dependencies = new Stack<object>();
             private readonly HashSet<object> _excludes = new HashSet<object>();
private readonly HashSet<object> _includes = new HashSet<object>();
private readonly HashSet<object> _blocked = new HashSet<object>();
private readonly Dictionary<Type, object> _resolutions = new Dictionary<Type, object>();
37
38
39
40
             /// <summary>
42
             /// <para>
43
              /// Initializes a new <see cref="Scope"/> instance.
             /// </para>
45
             /// <para></para>
46
             /// </summary>
              /// <param name="autoInclude">
             /// <para>A auto include.</para>
49
              /// <para></para>
50
              /// </param>
51
             /// <param name="autoExplore">
52
             /// <para>A auto explore.</para>
53
             /// <para></para>
              /// </param>
              [MethodImpl(MethodImplOptions.AggressiveInlining)]
56
             public Scope(bool autoInclude, bool autoExplore)
57
                   _autoInclude = autoInclude;
59
                  _autoExplore = autoExplore;
60
             }
61
62
             /// <summary>
63
             /// <para>
64
             /// Initializes a new <see cref="Scope"/> instance.
              /// </para>
             /// <para></para>
67
              /// </summary>
68
             /// <param name="autoInclude">
69
             /// <para>A auto include.</para>
70
             /// <para></para>
71
              /// </param>
              [MethodImpl(MethodImplOptions.AggressiveInlining)]
73
             public Scope(bool autoInclude) : this(autoInclude, false) { }
74
75
             /// <summarv>
76
             /// <para>
```

```
/// Initializes a new <see cref="Scope"/> instance.
7.8
             /// </para>
             /// <para></para>
80
             /// </summary>
81
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public Scope() { }
83
84
             #region Exclude
85
             /// <summary>
87
             /// <para>
88
             /// Excludes the assembly of.
89
             /// </para>
90
             /// <para></para>
91
             /// </summary>
92
             /// <typeparam name="T">
             /// <para>The .</para>
94
             /// <para></para>
95
             /// </typeparam>
96
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
97
             public void ExcludeAssemblyOf<T>() => ExcludeAssemblyOfType(typeof(T));
98
             /// <summary>
100
             /// <para>
101
             /// Excludes the assembly of type using the specified type.
             /// </para>
103
             /// <para></para>
104
             /// </summary>
105
             /// <param name="type">
             /// <para>The type.</para>
107
             /// <para></para>
108
             /// </param>
109
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
110
             public void ExcludeAssemblyOfType(Type type) => ExcludeAssembly(type.GetAssembly());
111
             /// <summary>
/// <para>
113
114
             /// Excludes the assembly using the specified assembly.
115
             /// </para>
116
             /// <para></para>
117
             /// </summary>
118
             /// <param name="assembly">
119
             /// <para>The assembly.</para>
120
             /// <para></para>
121
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
123
             public void ExcludeAssembly(Assembly assembly) =>
124
             → assembly.GetCachedLoadableTypes().ForEach(Exclude);
125
             /// <summary>
126
             /// <para>
127
             /// Excludes this instance.
128
             /// </para>
129
             /// <para></para>
130
             /// </summary>
             /// <typeparam name="T">
             /// <para>The .</para>
133
             /// <para></para>
134
             /// </typeparam>
135
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
136
             public void Exclude<T>() => Exclude(typeof(T));
137
             /// <summary>
139
             /// <para>
140
             /// Excludes the object.
141
             /// </para>
142
             /// <para></para>
143
             /// </summary>
144
             /// <param name="@object">
145
             /// <para>The object.</para>
146
             /// <para></para>
147
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
149
             public void Exclude(object @object) => _excludes.Add(@object);
150
151
             #endregion
153
             #region Include
```

```
/// <summary>
156
             /// <para>
157
             /// Includes the assembly of.
158
             /// </para>
159
             /// <para></para>
             /// </summary>
161
             /// <typeparam name="T">
162
             /// <para>The .</para>
163
             /// <para></para>
             /// </typeparam>
165
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
166
             public void IncludeAssemblyOf<T>() => IncludeAssemblyOfType(typeof(T));
167
168
             /// <summary>
169
             /// <para>
170
             /// Includes the assembly of type using the specified type.
171
             /// </para>
172
             /// <para></para>
173
             /// </summary>
174
             /// <param name="type">
175
             /// <para>The type.</para>
176
             /// <para></para>
177
             /// </param>
178
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
179
             public void IncludeAssemblyOfType(Type type) => IncludeAssembly(type.GetAssembly());
181
             /// <summary>
182
             /// <para>
183
             /// Includes the assembly using the specified assembly.
184
             /// </para>
185
             /// <para></para>
             /// </summary>
187
             /// <param name="assembly">
188
             /// <para>The assembly.</para>
189
             /// <para></para>
190
             /// </param>
191
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
192
             public void IncludeAssembly(Assembly assembly) =>
             → assembly.GetExportedTypes().ForEach(Include);
194
             /// <summary>
195
             /// <para>
196
             /// Includes this instance.
197
             /// </para>
198
             /// <para></para>
             /// </summary>
200
             /// <typeparam name="T">
201
             /// <para>The .</para>
202
             /// <para></para>
203
             /// </typeparam>
204
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
205
             public void Include<T>()
207
208
                 var types = Types<T>.Array;
                 if (types.Length > 0)
209
210
                      types.ForEach(Include);
211
                 }
212
                 else
213
                      Include(typeof(T));
215
                 }
216
             }
217
218
             /// <summary>
219
             /// <para>
             /// Includes the object.
221
             /// </para>
222
             /// <para></para>
             /// </summary>
224
             /// <param name="@object">
225
             /// <para>The object.</para>
226
             /// <para></para>
227
             /// </param>
228
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
229
             public void Include(object @object)
230
231
                 if (@object == null)
232
```

```
{
233
234
                      return;
                 }
235
                     (_includes.Add(@object))
237
                      var type = @object as Type;
238
                      if (type != null)
239
240
                          type.GetInterfaces().ForEach(Include);
241
                          Include(type.GetBaseType());
                      }
243
                 }
244
245
             }
246
             #endregion
248
             #region Use
249
250
             /// <remarks>
251
             /// TODO: Use Default[T].Instance if the only constructor object has is parameterless.
252
             /// TODO: Think of interface chaining IDoubletLinks[T] (default) -> IDoubletLinks[T]
253
                 (checker) -> IDoubletLinks[T] (synchronizer) (may be UseChain[IDoubletLinks[T],
                 Types[DefaultLinks, DefaultLinksDependencyChecker, DefaultSynchronizedLinks]]
             /// TĎDO: Add support for factories
             /// </remarks>
255
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
256
             public T Use<T>()
258
                 if (_excludes.Contains(typeof(T)))
259
260
                      throw new InvalidOperationException($\"Type \{typeof(T).Name\} is excluded and
261

→ cannot be used.");

262
                 if (_autoInclude)
263
264
                 {
                      Include<T>();
                    (!TryResolve(out T resolved))
267
268
                      throw new InvalidOperationException($"Dependency of type {typeof(T).Name}
269

    cannot be resolved.");
                 if (!_autoInclude)
271
                 {
272
                      Include<T>();
273
274
                 Use(resolved):
275
                 return resolved;
             }
277
             /// <summary>
279
             /// <para>
280
             /// Uses the singleton using the specified factory.
281
             /// </para>
             /// <para></para>
283
             /// </summary>
284
             /// <typeparam name="T">
             /// <para>The .</para>
286
             /// <para></para>
287
             /// </typeparam>
288
             /// <param name="factory">
289
             /// <para>The factory.</para>
290
             /// <para></para>
291
             /// </param>
             /// <returns>
293
             /// <para>The</para>
294
             /// <para></para>
295
             /// </returns>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
297
             public T UseSingleton<T>(IFactory<T> factory) => UseAndReturn(Singleton.Get(factory));
298
299
             /// <summary>
300
             /// <para>
301
             /// Uses the singleton using the specified creator.
302
             /// </para>
303
             /// <para></para>
304
             /// </summary>
             /// <typeparam name="T">
306
```

```
/// <para>The .</para>
307
             /// <para></para>
             /// </typeparam>
309
             /// <param name="creator">
310
             /// <para>The creator.</para>
             /// <para></para>
312
             /// </param>
313
             /// <returns>
314
             /// <para>The</para>
             /// <para></para>
316
             /// </returns>
317
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             public T UseSingleton<T>(Func<T> creator) => UseAndReturn(Singleton.Get(creator));
320
321
             /// <summary>
             /// <para>
322
             /// Uses the and return using the specified object.
323
             /// </para>
             /// <para></para>
325
             /// </summary>
326
             /// <typeparam name="T">
327
             /// <para>The .</para>
328
             /// <para></para>
329
             /// </typeparam>
330
             /// <param name="@object">
             /// <para>The object.</para>
332
             /// <para></para>
333
             /// </param>
334
             /// <returns>
335
             /// <para>The object.</para>
336
             /// <para></para>
337
             /// </returns>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
339
             public T UseAndReturn<T>(T @object)
340
341
                 Use(@object);
342
                 return @object;
343
             }
345
             /// <summary>
346
             /// <para>
347
             /// Uses the object.
348
             /// </para>
349
             /// <para></para>
             /// </summary>
351
             /// <param name="@object">
352
             /// <para>The object.</para>
             /// <para></para>
354
             /// </param>
355
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
356
             public void Use(object @object)
358
                 Include(@object);
359
                 _dependencies.Push(@object);
             }
361
             #endregion
363
             #region Resolve
365
366
             /// <summary>
367
             /// <para>
368
             /// Determines whether this instance try resolve.
369
             /// </para>
370
             /// <para></para>
371
             /// </summary>
             /// <typeparam name="T">
373
             /// <para>The .</para>
374
             /// <para></para>
375
             /// </typeparam>
376
             /// <param name="resolved">
377
             /// <para>The resolved.</para>
378
             /// <para></para>
             /// </param>
380
             /// <returns>
381
             /// <para>The result.</para>
             /// <para></para>
383
             /// </returns>
384
```

```
[MethodImpl(MethodImplOptions.AggressiveInlining)]
385
             public bool TryResolve<T>(out T resolved)
387
                 resolved = default;
389
                 var result = TryResolve(typeof(T), out object resolvedObject);
                 if (result)
390
391
                      resolved = (T)resolvedObject;
392
393
                 return result;
             }
395
396
             /// <summary>
397
             /// <para>
398
             /// Determines whether this instance try resolve.
399
             /// </para>
401
             /// <para></para>
             /// </summary>
402
             /// <param name="requiredType">
403
             /// para>The required type.
404
             /// <para></para>
405
             /// </param>
406
             /// <param name="resolved">
             /// <para>The resolved.</para>
408
             /// <para></para>
409
             /// </param>
410
             /// <returns>
411
             /// <para>The bool</para>
412
             /// <para></para>
413
             /// </returns>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
415
             public bool TryResolve(Type requiredType, out object resolved)
416
417
                 resolved = null;
418
                 if (!_blocked.Add(requiredType))
419
                 {
420
                      return false;
421
                 }
422
                 try
423
424
                      if (_excludes.Contains(requiredType))
425
                      {
426
                          return false;
427
428
                      if (_resolutions.TryGetValue(requiredType, out resolved))
429
                          return true;
431
                      }
432
433
                         (_{autoExplore})
                      {
434
                          IncludeAssemblyOfType(requiredType);
435
                      var resultInstances = new List<object>();
437
                      var resultConstructors = new List<ConstructorInfo>();
438
                      foreach (var include in _includes)
439
440
                          if (!_excludes.Contains(include))
441
                          {
442
                              var type = include as Type;
443
                              if (type != null)
444
445
                                   if (requiredType.IsAssignableFrom(type))
446
                                   {
447
                                       resultConstructors.AddRange(GetValidConstructors(type));
448
449
                                   else if (type.GetTypeInfo().IsGenericTypeDefinition &&
450
                                       requiredType.GetTypeInfo().IsGenericType &&
                                       type.GetInterfaces().Any(x => x.Name == requiredType.Name))
451
                                       var genericType =
452
                                            type.MakeGenericType(requiredType.GenericTypeArguments);
                                           (requiredType.IsAssignableFrom(genericType))
453
454
                                            resultConstructors.AddRange(GetValidConstructors(genericType
                                            → ));
                                       }
456
                                   }
457
                              }
458
```

```
else if (requiredType.IsInstanceOfType(include) |
459
                                   requiredType.IsAssignableFrom(include.GetType()))
460
                                   resultInstances.Add(include);
461
462
                          }
463
465
                         (resultInstances.Count == 0 && resultConstructors.Count == 0)
466
                          return false;
467
468
                      else if (resultInstances.Count > 0)
469
                      {
470
                          resolved = resultInstances[0];
471
472
473
                      else
                      {
474
                          SortConstructors(resultConstructors);
                          if (!TryResolveInstance(resultConstructors, out resolved))
476
477
                               return false;
                          }
479
480
                      _resolutions.Add(requiredType, resolved);
                      return true;
482
483
                 finally
484
                 {
485
                      _blocked.Remove(requiredType);
                 }
487
             }
488
489
             /// <summary>
490
             /// <para>
491
             /// Sorts the constructors using the specified result constructors.
492
             /// </para>
493
             /// <para></para>
494
             /// </summary>
             /// <param name="resultConstructors">
496
             /// <para>The result constructors.</para>
497
             /// <para></para>
498
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
500
             protected virtual void SortConstructors(List<ConstructorInfo> resultConstructors) =>
501
                 resultConstructors.Sort((x, y) =>
                 -x.GetParameters().Length.CompareTo(y.GetParameters().Length));
502
             /// <summary>
503
             /// <para>
504
             /// Determines whether this instance try resolve instance.
505
             /// </para>
506
             /// <para></para>
507
             /// </summary>
             /// <param name="constructors">
509
             /// <para>The constructors.</para>
510
             /// <para></para>
511
             /// </param>
512
             /// <param name="resolved">
513
             /// <para>The resolved.</para>
514
             /// <para></para>
515
             /// </param>
516
             /// <returns>
517
             /// <para>The bool</para>
             /// <para></para>
519
             /// </returns>
520
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
521
             protected virtual bool TryResolveInstance(List<ConstructorInfo> constructors, out object
522
                 resolved)
             {
523
                 for (var i = 0; i < constructors.Count; i++)</pre>
524
525
                      try
526
527
528
                          var resultConstructor = constructors[i];
                          if (TryResolveConstructorArguments(resultConstructor, out object[]
529
                               arguments))
                          {
530
                               resolved = resultConstructor.Invoke(arguments);
```

```
return true;
532
                           }
                      }
534
                      catch (Exception exception)
535
                           exception.Ignore();
537
538
539
                  resolved = null;
540
                  return false;
541
             }
542
543
             /// <summary>
544
             /// <para>
545
             /// Gets the valid constructors using the specified type.
546
             /// </para>
547
             /// <para></para>
548
             /// </summary>
549
             /// <param name="type">
550
             /// <para>The type.</para>
551
             /// <para></para>
552
             /// </param>
553
             /// <returns>
             /// <para>The constructors.</para>
555
             /// <para></para>
556
             /// </returns>
557
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             private ConstructorInfo[] GetValidConstructors(Type type)
559
560
                  var constructors = type.GetConstructors();
562
                  if (!_autoExplore)
563
564
                      constructors = constructors.ToArray(x =>
565
                           var parameters = x.GetParameters();
566
                          for (var i = 0; i < parameters.Length; i++)</pre>
567
568
                               if (!_includes.Contains(parameters[i].ParameterType))
569
570
                                    return false;
571
572
573
                           return true:
574
                      });
575
                  }
                  return constructors;
577
             }
578
579
             /// <summary>
580
             /// <para>
             /// Determines whether this instance try resolve constructor arguments.
582
             /// </para>
583
             /// <para></para>
             /// </summary>
585
             /// <param name="constructor">
586
             /// <para>The constructor.</para>
587
             /// <para></para>
588
             /// </param>
589
             /// <param name="arguments">
590
             /// <para>The arguments.</para>
             /// <para></para>
592
             /// </param>
593
             /// <returns>
594
             /// <para>The bool</para>
595
             /// <para></para>
596
             /// </returns>
597
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
             private bool TryResolveConstructorArguments(ConstructorInfo constructor, out object[]
599
                  arguments)
600
                  var parameters = constructor.GetParameters();
601
                  arguments = new object[parameters.Length];
602
                  for (var i = 0; i < parameters.Length; i++)</pre>
603
604
                      if (!TryResolve(parameters[i].ParameterType, out object argument))
                      {
606
                           return false;
607
                      }
608
```

```
Use(argument);
609
                      arguments[i] = argument;
611
                 return true;
             }
613
614
             #endregion
615
             /// <summary>
617
             /// <para>
618
             /// Disposes the manual.
619
             /// </para>
620
             /// <para></para>
621
             /// </summary>
622
             /// <param name="manual">
             /// <para>The manual.</para>
624
             /// <para></para>
625
             /// </param>
626
             /// <param name="wasDisposed">
627
             /// /// para>The was disposed.
628
             /// <para></para>
629
             /// </param>
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
631
             protected override void Dispose(bool manual, bool wasDisposed)
632
633
                 if (!wasDisposed)
634
                 {
635
                      while (_dependencies.Count > 0)
636
                          _dependencies.Pop().DisposeIfPossible();
638
639
                 }
640
             }
641
        }
642
643
      ./csharp/Platform.Scopes/Scope[Tinclude].cs
1.2
    using System.Runtime.CompilerServices;
 2
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
 4
    namespace Platform.Scopes
 5
 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
             /// 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>
33
             /// </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.
             /// </para>
41
             /// <para></para>
```

```
/// </summary>
43
            /// <param name="autoInclude">
44
            /// <para>A auto include.</para>
45
            /// <para></para>
46
            /// </param>
            /// <param name="autoExplore">
48
            /// <para>A auto explore.</para>
49
            /// <para></para>
50
            /// </param>
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
52
            public Scope(bool autoInclude, bool autoExplore) : base(autoInclude, autoExplore) =>
53

    Include<TInclude>();
        }
   }
55
     ./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
4
   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>
            /// Gets the single value.
18
            /// </para>
19
            /// <para></para>
20
            /// </summary>
21
            public static T Single
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
24
                get => Scope.Global.Use<T>();
25
            }
27
            /// <summary>
            /// <para>
29
            /// Gets the new value.
30
            /// </para>
31
            /// <para></para>
32
            /// </summary>
33
            public static Disposable<T> New
                 [MethodImpl(MethodImplOptions.AggressiveInlining)]
36
37
38
                     var scope = new Scope(autoInclude: true, autoExplore: true);
39
                     return new Disposable<T, Scope>(scope.Use<T>(), scope);
                }
41
            }
42
        }
43
   }
^{44}
    ./csharp/Platform.Scopes.Tests/ScopeTests.cs
   using Xunit;
using Platform.Reflection;
2
   namespace Platform.Scopes.Tests
4
        /// <summary>
6
        /// <para>
7
        /// Represents the scope tests.
        /// </para>
9
        /// <para></para>
10
        /// <\summary>
11
        public class ScopeTests
12
13
            /// <summary>
            /// <para>
            /// Defines the interface.
```

```
/// </para>
17
             /// <para></para>
/// </summary>
18
19
             public interface IInterface
21
             }
22
23
             /// <summary>
^{24}
             /// <para>
25
             /// Represents the .
             /// </para>
27
             /// <para></para>
/// </summary>
28
29
             /// <seealso cref="IInterface"/>
30
             public class Class : IInterface
31
             }
33
             /// <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
             }
48
49
             /// <summary>
             /// <para>
             /// Tests that type parameters test.
52
             /// </para>
/// <para></para>
/// </summary>
53
55
             [Fact]
56
             public static void TypeParametersTest()
                  using var scope = new Scope<Types<Class>>();
59
                  var instance = scope.Use<IInterface>();
60
                  Assert.IsType<Class>(instance);
61
             }
62
        }
63
    }
64
```

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