

PCL

iOS

GreatQuote.cs (Model)

IQuoteLoader

```
IEnumerable<GreatQuote> Load();
void Save(IEnumerable<GreatQuote> quotes);
```

QuoteLoaderFactory

```
Func<IQuoteLoader> Create {get; set;}
```

QuoteManager

Singleton pattern code

IQuoteLoader repo;

```
ICollection<GreatQuote> Quotes {get; set;}
```

Constructor

```
repo = QuoteLoaderFactory.Create();
```

Save()

Load()

} uses repo to call the
Save and Load methods of
the class
that implements
IQuoteLoader

static class
with static
property.
Notice that
the property
data type
is a delegate.

Create is a
property,
but invoked
like a method
because the
data type
for the
property is a
delegate.

AppDelegate

FinishedLaunching

Set the Create property of
QuoteLoaderFactory to our
QuoteLoader class constructor

QuoteLoader : IQuoteLoader

Save()

Load()

Android

App

OnCreate

Set the Create property of
QuoteLoaderFactory to our
QuoteLoader class constructor

QuoteLoader : IQuoteLoader

Save()

Load()

iOS
simulator
won't do TTS
in 8.0

PCL

iOS

AppDelegate

FinishedLaunching

ServiceLocator.Instance.Add<ITextToSpeech, TextToSpeechService>();

TextToSpeechService : ITextToSpeech

Speak(string)

QuoteDetailViewController

ViewDidLoad

QuoteManager.Instance.SayQuote()

Android

App

OnCreate

ServiceLocator.Instance.Add<ITextToSpeech, TextToSpeechService>();

TextToSpeechService : ITextToSpeech

Speak(string)

QuoteDetailActivity

OnCreate

QuoteManager.Instance.SayQuote()

ITextToSpeech

Speak(string)

ServiceLocator

static Instance property

Add<TContract, TService>()

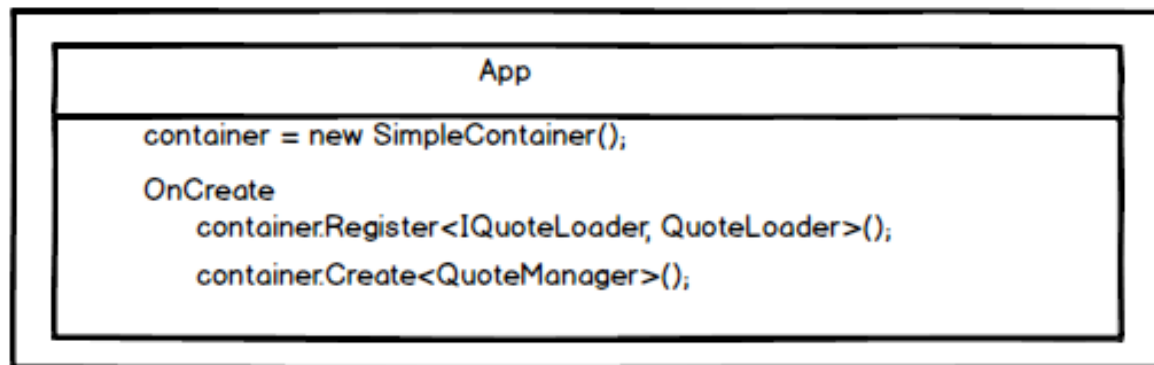
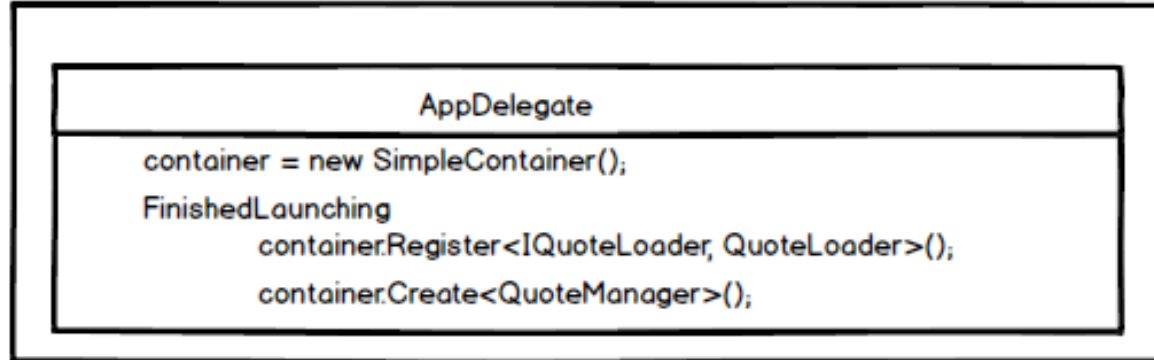
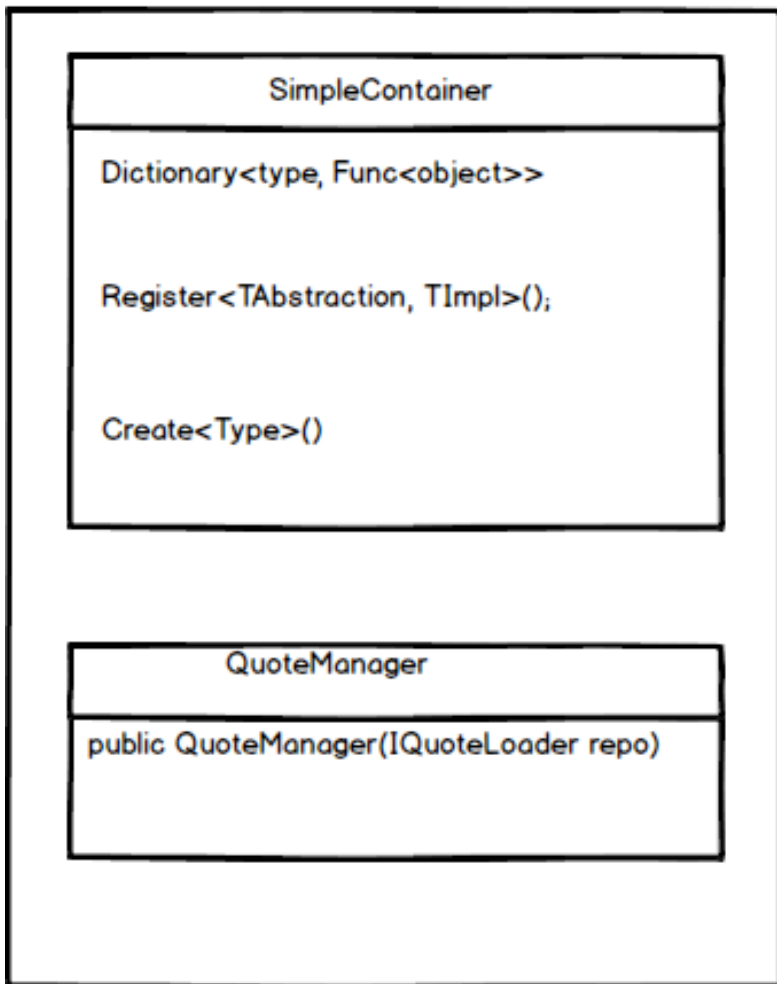
T Resolve<T>

QuoteManager

SayQuote()

Uses Locator to get
TextToSpeech service

Singleton



QuoteManager is dependent on an instance of IQuoteRepository so we will pass one in to the constructor.

Using the Create method on SimpleContainer will create an instance of QuoteManager and look through its constructor parameters for any dependencies. It will find IQuoteRepository as a dependency and look for a class in its Dictionary that had registered as an IQuoteRepository, create it, and hand it to the constructor.