# Setting up Your Azure Mobile and Xamarin Solution

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# Overview

Creating the solution

Choosing the right project types

Adding components / packages

# Options for Sharing Code

Shared Project

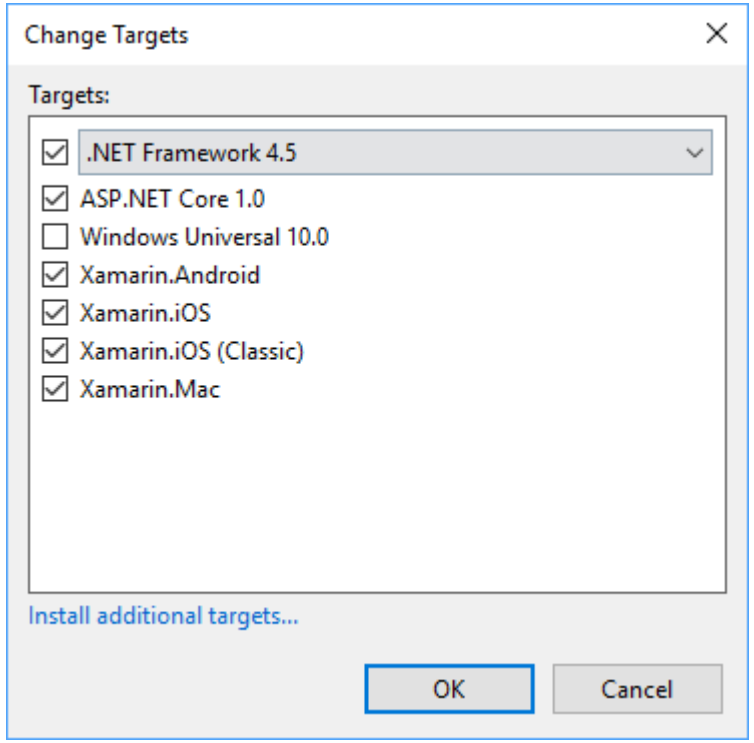
Portable Class Library

.NET Standard Library

```
public class Auction
{
#if WINDOWS
     //platform specific code
#endif

#if ANDROID
     //platform specific code
#endif
}
```

- Code files included in each project
- Compiler directives for platforms




Builds a DLL compatible with all targets

Limits some APIs to shareable code

May handle refactoring better

Better tooling support from Xamarin

Versioned interface for available APIs

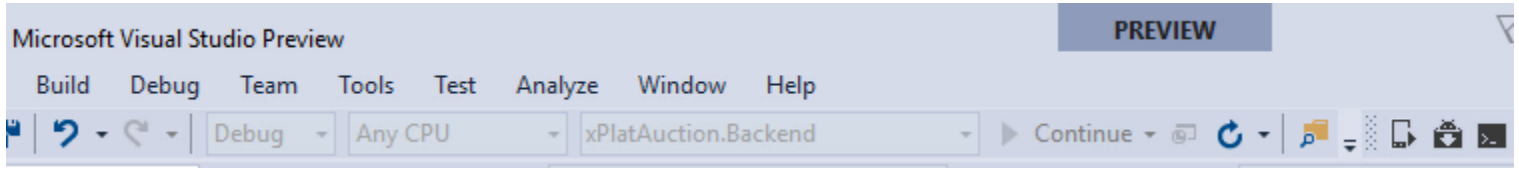
Target a single .NET Standard version

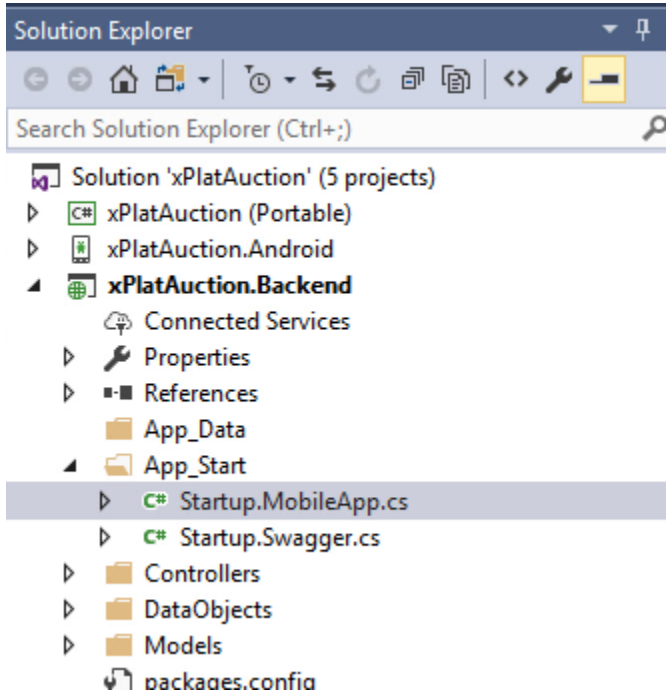
Successor to Portable Class Libraries

Tooling is not as current

| .NET Standard | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 2.0 |
|---|---|---|---|---|---|---|---|---|
| .NET Core | **1.0** | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | **2.0** |
| .NET Framework | **4.5** | **4.5** | **4.5.1** | **4.6** | **4.6.1** | 4.6.1 ~~4.6.2~~ | 4.6.1 ~~vNext~~ | 4.6.1 |
| Mono | **4.6** | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | **vNext** |
| Xamarin.iOS | **10.0** | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | **vNext** |
| Xamarin.Android | **7.0** | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | **vNext** |
| Universal Windows Platform | **10.0** | 10.0 | 10.0 | 10.0 | 10.0 | **vNext** | vNext | vNext |
| Windows | **8.0** | 8.0 | **8.1** | | | | | |
| Windows Phone | **8.1** | 8.1 | 8.1 | | | | | |
| Windows Phone Silverlight | **8.0** | | | | | | | |

# A Note About the Environment



# Testing Across Devices

**Publish the backend to Azure**

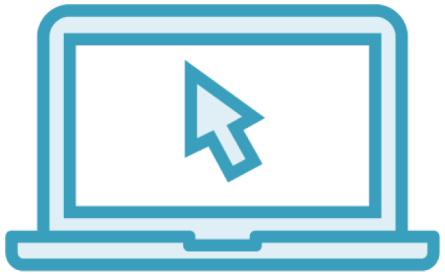
**Use IIS and SQL Server**

**Use IIS and LocalDB**

# Summary

- Choosing project types
- Creating and provisioning mobile app
- Installing components and packages
- Setting up your environment for testing
- Making sure the applications actually work

# Resources



**Blog explaining use of LocalDB with full IIS and your options**

- http://blogs.msdn.com/b/sqlexpress/archive/2011/12/09/using-localdb-with-full-iis-part-1-user-profile.aspx

Or

- http://bit.ly/1BUA5iz