Writing and Running Unit Tests

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Module Outline

Implement your first test method

- Fake dependencies with Moq
- Initialize tests
- Assert Exceptions
- Customize Test Explorer

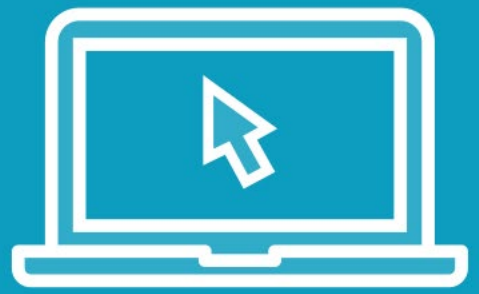
Target .NET Core and .NET Framework

Create and use playlists

Run tests with

- Test Explorer
- Shortcuts
- CodeLens

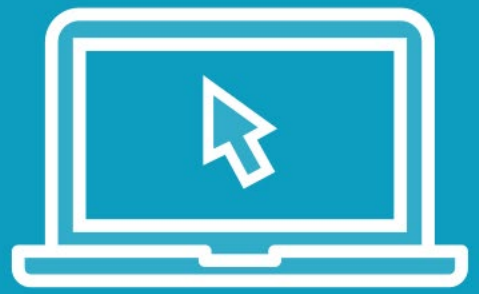
Demo



Implement your first test method

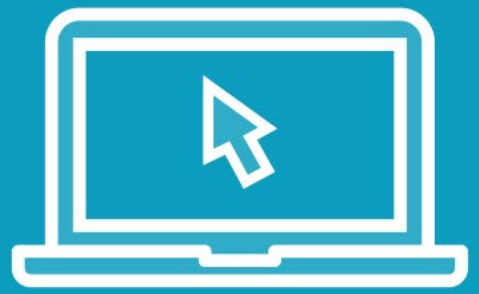
Debug the test method

Demo



Fake dependencies with Moq

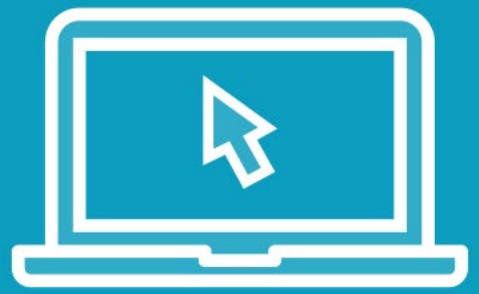
Demo



Write another test method

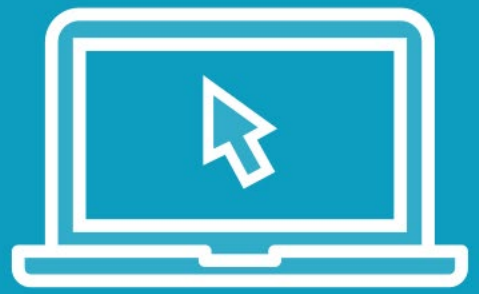
Initialize tests

Demo



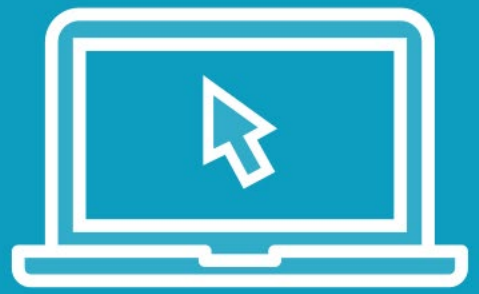
Check if the stock of coffee cups was exceeded

Demo



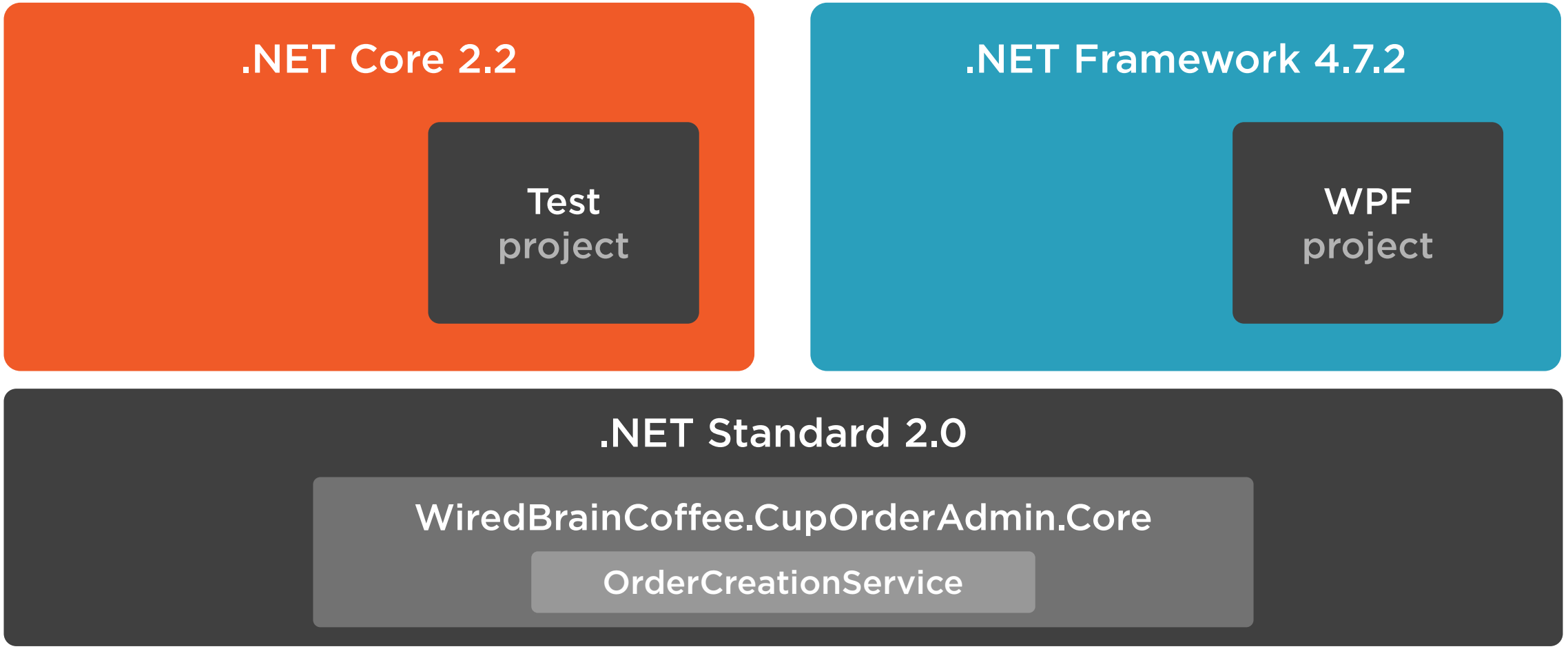
Assert Exceptions

Demo



Start the Coffee Cup Order Admin tool

Target .NET Core and .NET Framework



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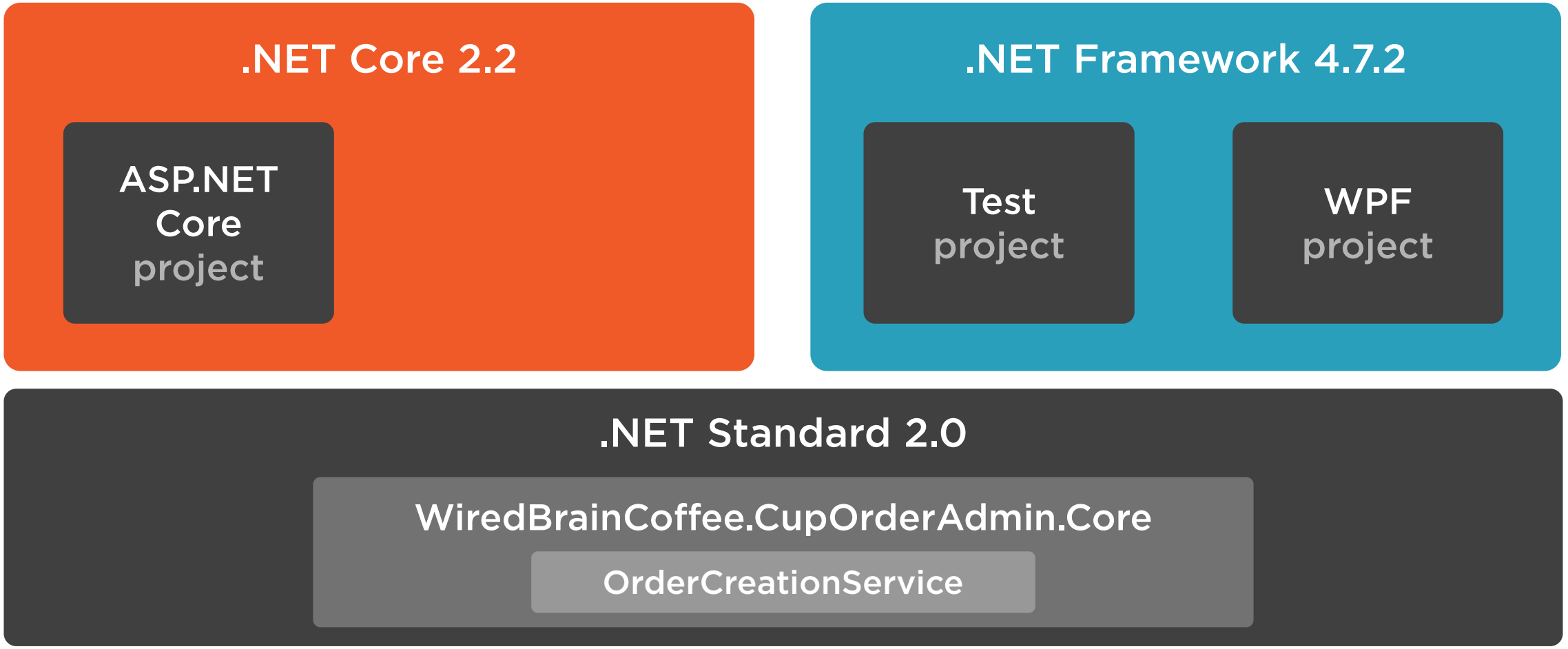

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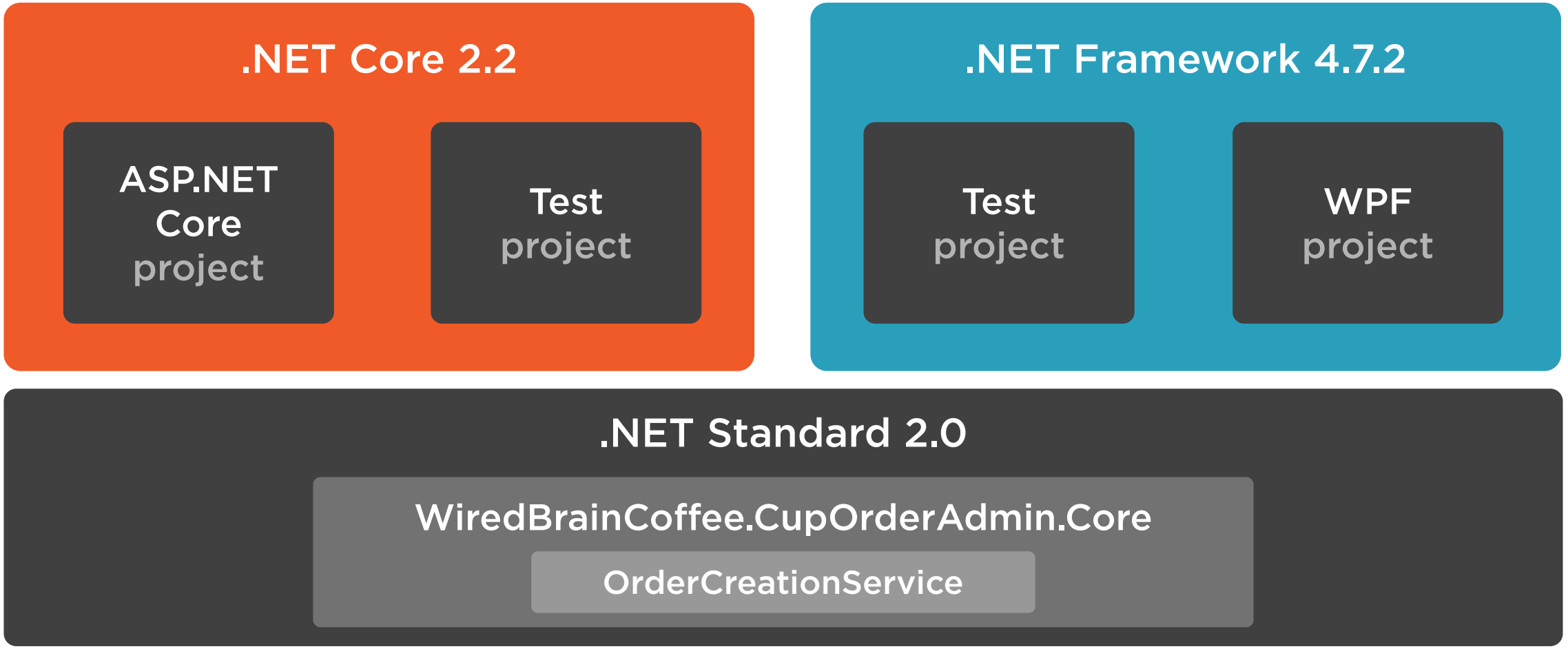

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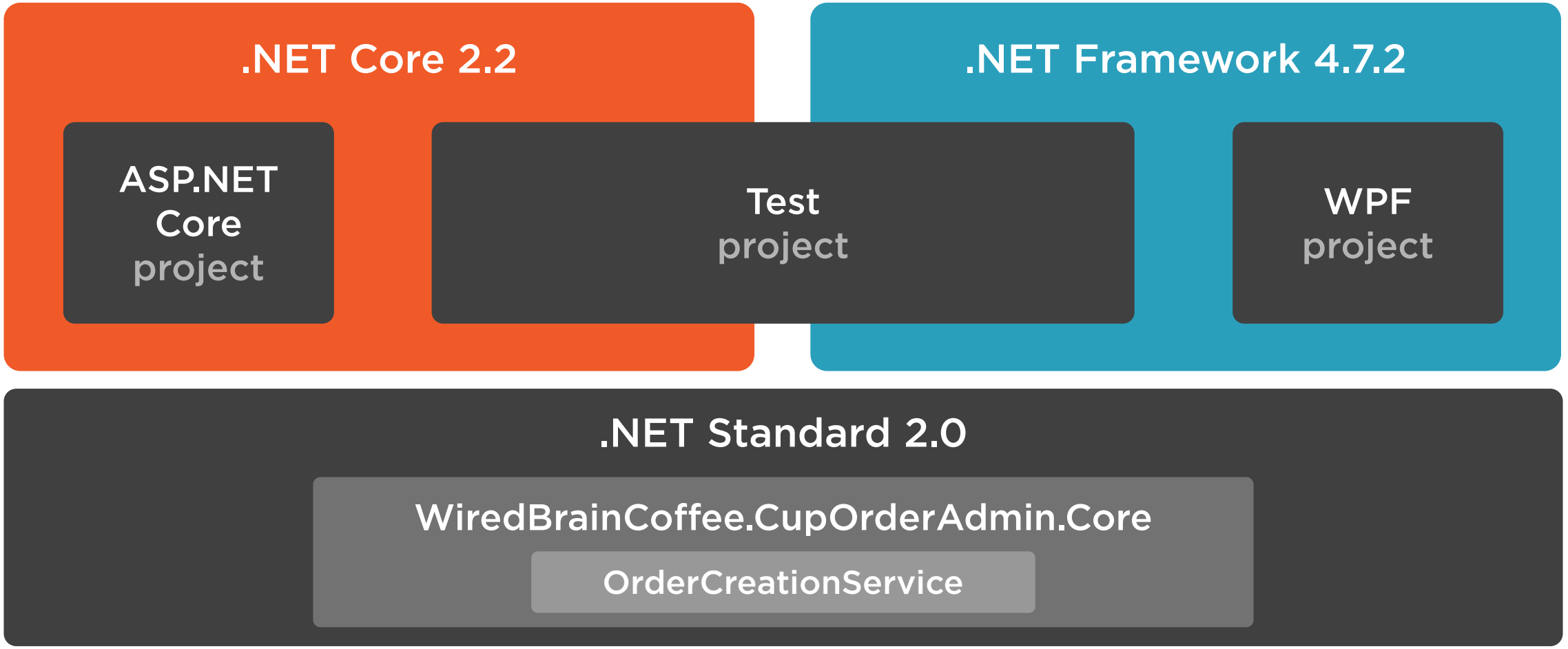


Specific .NET platforms could throw a PlatformNotSupportedException

.NET Core Does Not Support AppDomains

.NET Core 2.2

PlatformNotSupportedException

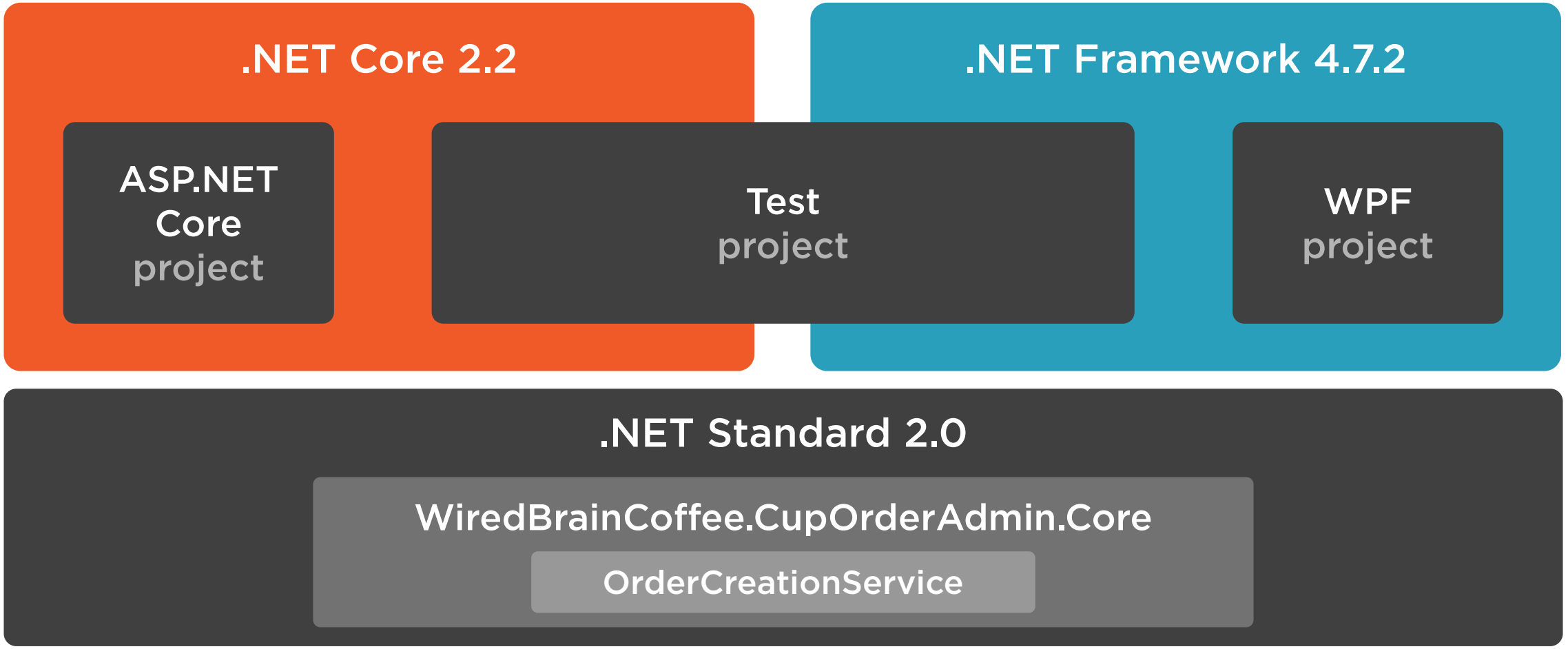
.NET Framework 4.7.2

Everything's alright! ☺

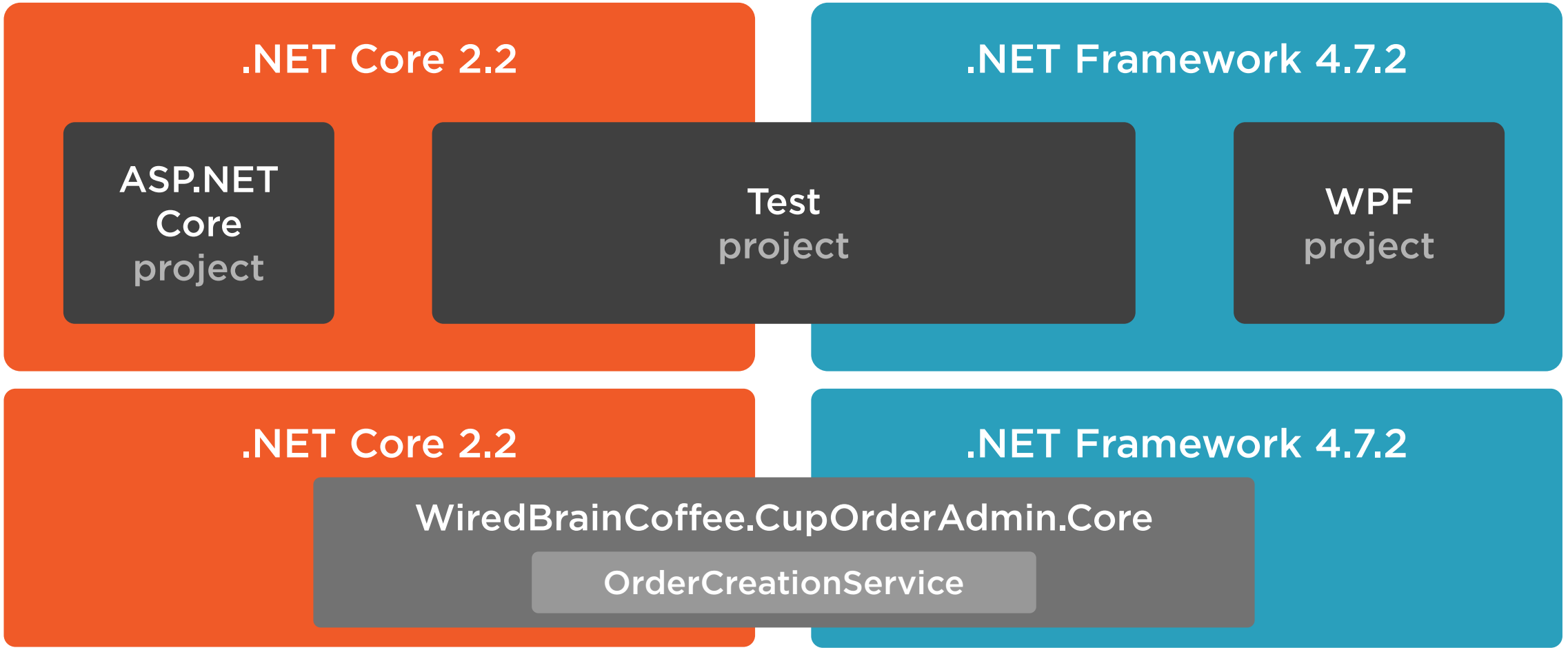
.NET Standard 2.0

```
var appDomain = AppDomain.CreateDomain("MyDomain");
```

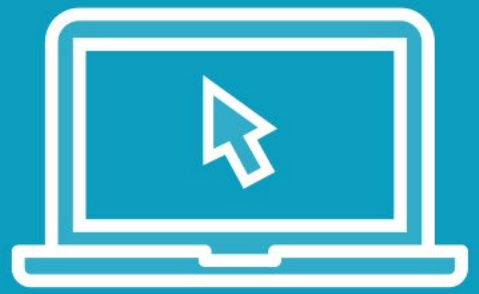
Target .NET Core and .NET Framework



Target .NET Core and .NET Framework

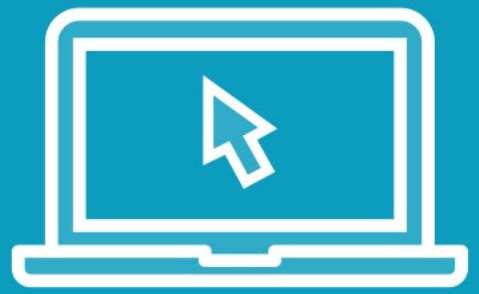


Demo



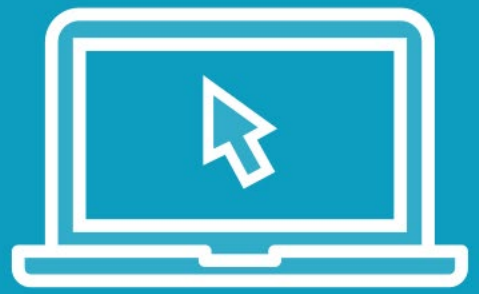
Target .NET Core and .NET Framework

Demo



Create and use playlists

Demo



Run tests with shortcuts and CodeLens

Summary

Implement test methods

- Fake dependencies with Moq
- Initialize tests
- Assert Exceptions
- Target .NET Core and .NET Framework

Test Explorer

- Group tests
- Filter tests
- Use playlists

Run tests with

- Shortcuts
- CodeLens