

Exploring the Contract BC Solution



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Project Status and Plan

Strategic Design Completed

Aggregate has been coded up, along with tests

Add in persistence

Tactical Design Completed

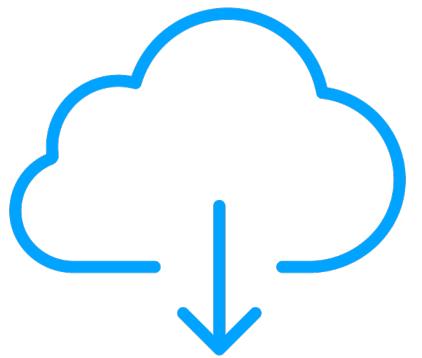
Review code and tests



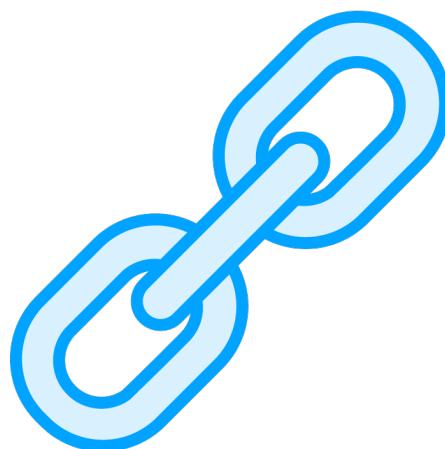
Demo app is designed to demonstrate EF Core doing its job, not to demo a fully functional application.



Following Along?



Demos can be downloaded from Pluralsight ...



...or github.com/julielerman/EFCore6andDDDPluralsight



Is This Code Review Necessary for You?

DDD Expert

Perhaps not

Newer to DDD

Definitely

**Appreciate a
refresher
or perspective**

Recommended

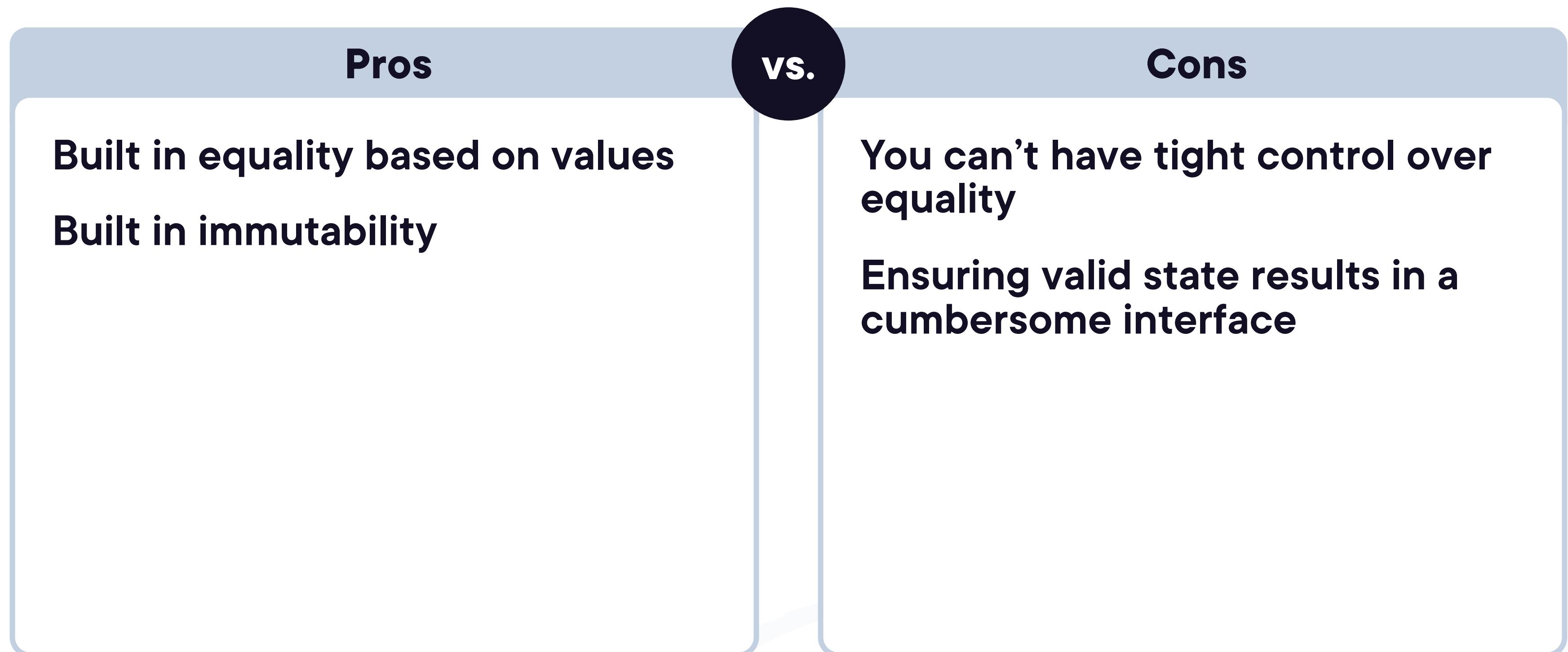




Examining Contracting's Value Objects



Why I'm Not Using C# Records for Value Objects



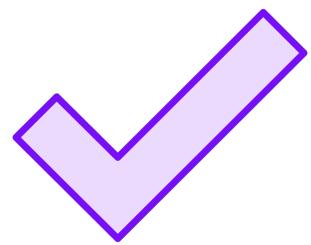
| Continuing with Author Value Object



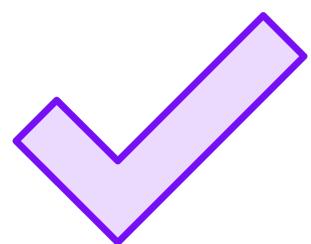
Digging into Contract Version



Version, Version Everywhere!



**Ubiquitous language of contracts:
“a contract has one or more versions”**



**In code:
`ContractBC.ContractAggregate.ContractVersion`**



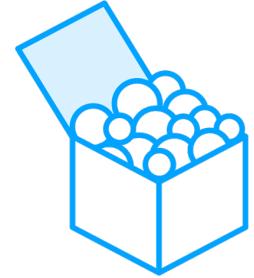
**In the .NET
`System.Version`**



Inspecting the Contract Aggregate Root



Contract Responsibilities



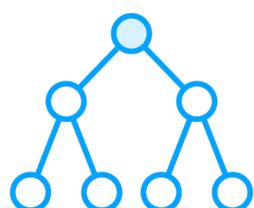
Manages original version and revisions



Notes when contract is verbally accepted and finalized



Knows how to generate new contract numbers



As the root, it ensures the aggregate is in a consistent, valid state



Creating Revisions and Other Aggregate Logic



The contract aggregate, by definition, always includes its versions.

The persistence logic will need to honor the aggregate when it retrieves any contract.





Running Unit Tests on the Aggregate



Summary



Many DDD concepts are represented in this code, e.g.,

- Encapsulation
- Protecting domain model from side effects
- Simplifying the interface

Reduced complexity of contract versions

Adheres to aggregate rules and behaviors

Tests are critical part of the code

Ready to add in database persistence



Up Next:

Adding the First DbContext



Resources Mentioned in this Module

Vladimir Khorikov on C# Records and Value Objects

enterprisecraftsmanship.com/posts/csharp-records-value-objects/

Article by Arthur Vickers (from EF team) with Info on Defensive Copies

bit.ly/3jsy7nf

GitHub repository for this course's demos:

[http://github.com/julielman/EFCore6andDDDPluralsight](https://github.com/julielman/EFCore6andDDDPluralsight)

