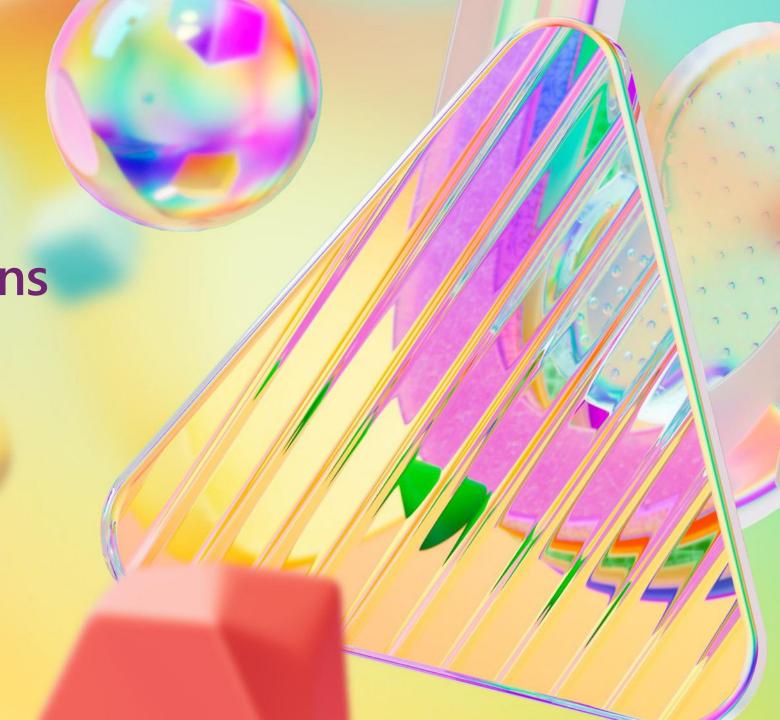


Modernize old web applications to .NET 8

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Ask me about

.NET & web development

Azure

Maintaining an open-source framework

Writing book about modernization

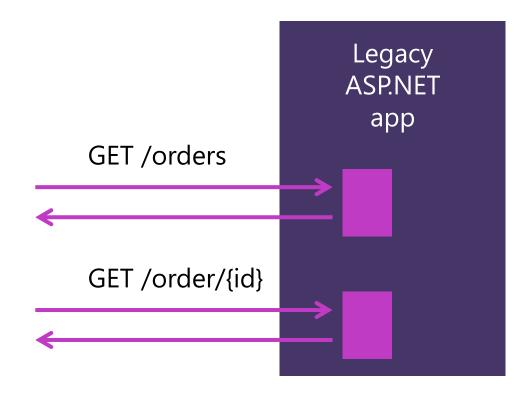


Why modernize?

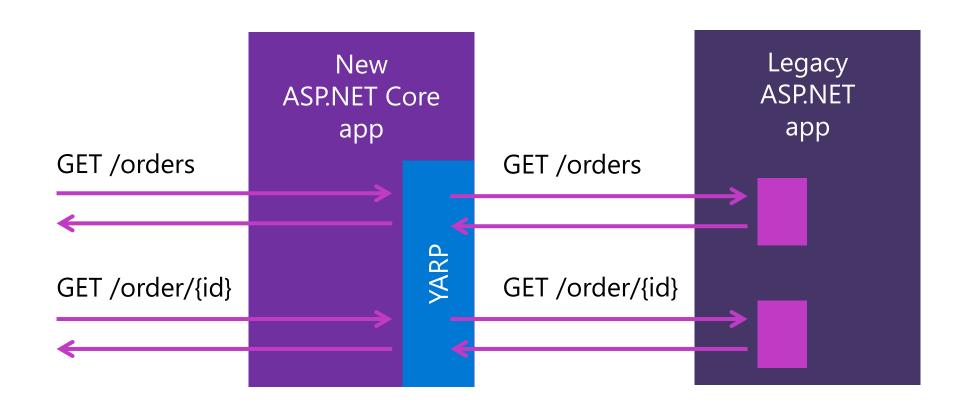
- · Access all the benefits of the new .NET
 - New C# language features
 - Better performance
 - New libraries logging, dependency injection, configuration...
 - Support for Linux & containers
- Easier to hire new developers
 - Nobody wants to work with old projects

Method 1: Side-by-side modernization

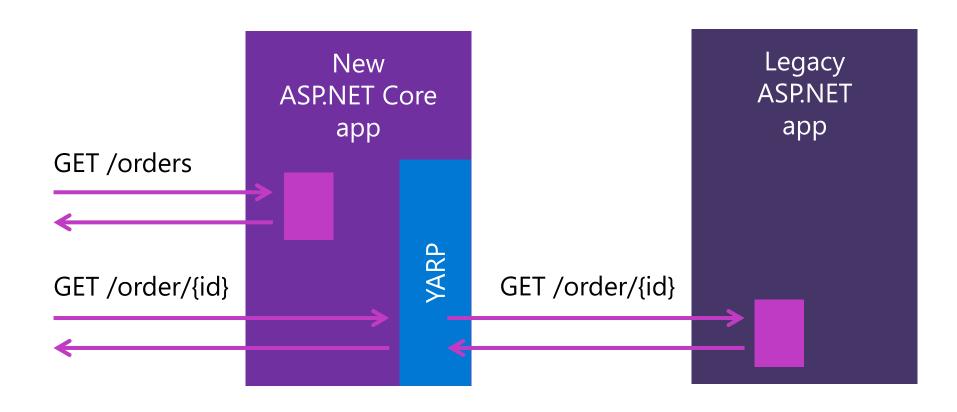
- · Create an empty ASP.NET Core application
- · Use YARP to send unhandled requests to the old one



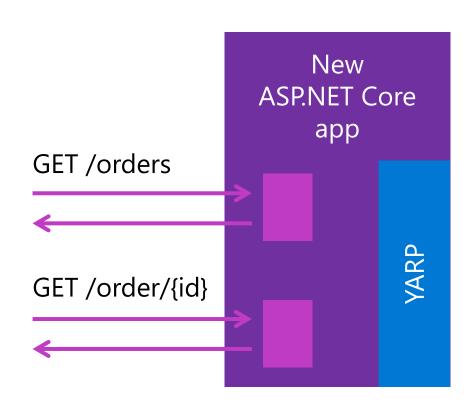
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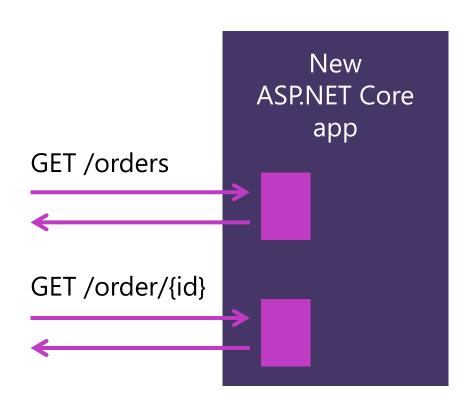


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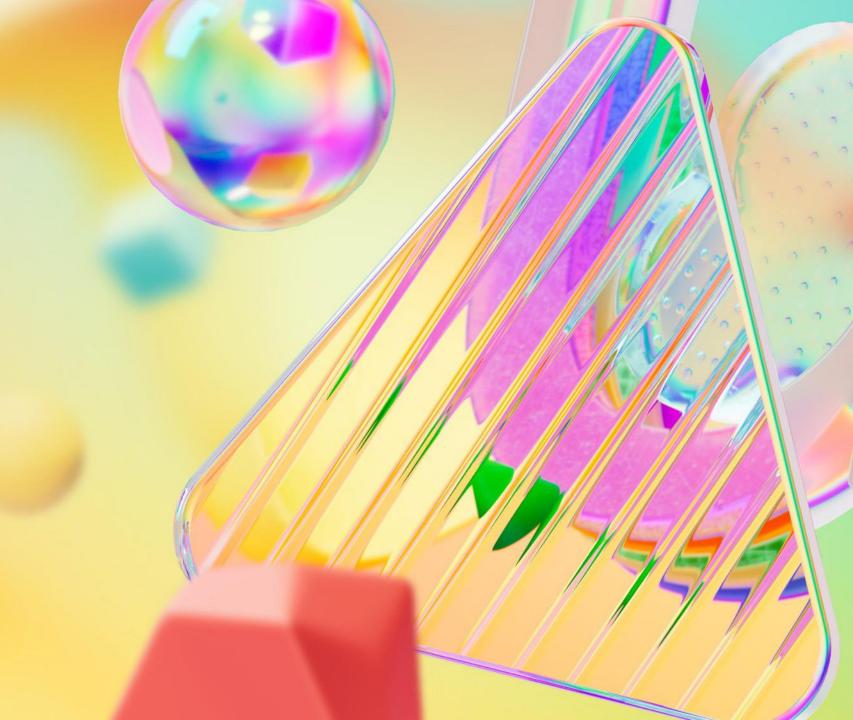


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Side-by-side modernization challenges

Authentication

- Different format of auth cookies in ASP.NET and ASP.NET Core
- Use an external identity provider or implement a custom SSO

Session

· Store it in the database in a format understandable to both applications

Caching

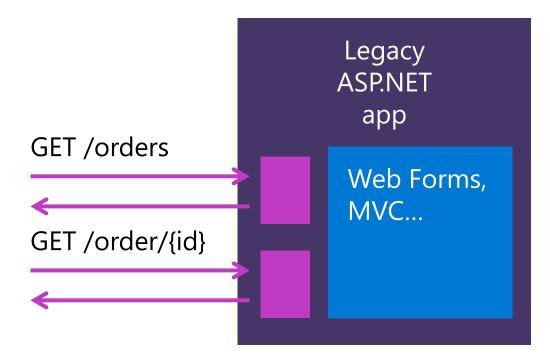
Invalidate the cache in the other application, or introduce distributed caching

Concurrency and shared resources

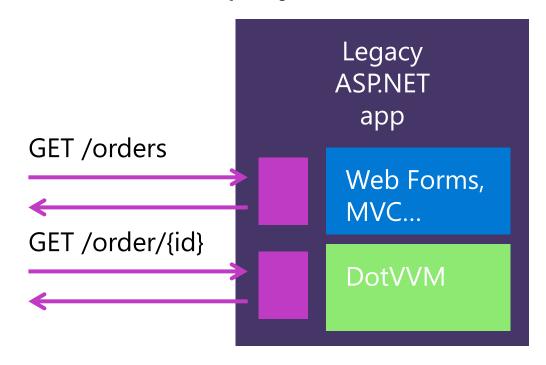
· Filesystem, in-process locking...

Method 2: In-place modernization

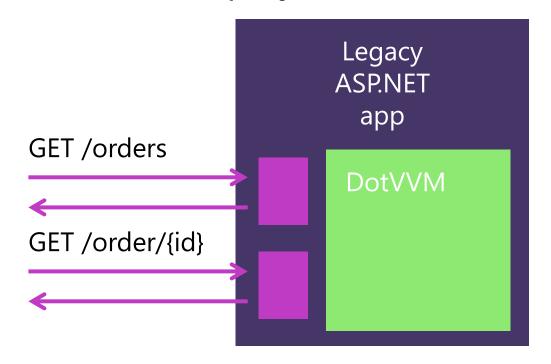
- · Use a UI framework that supports both .NET Framework and .NET 8
 - · <u>DotVVM</u> open-source, member of the .NET Foundation, MVVM approach
- · Install it in the legacy app and rewrite the pages in-place
- · Afterwards, switch the project to .NET 8



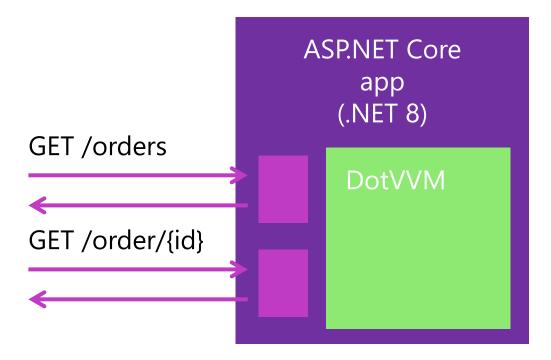
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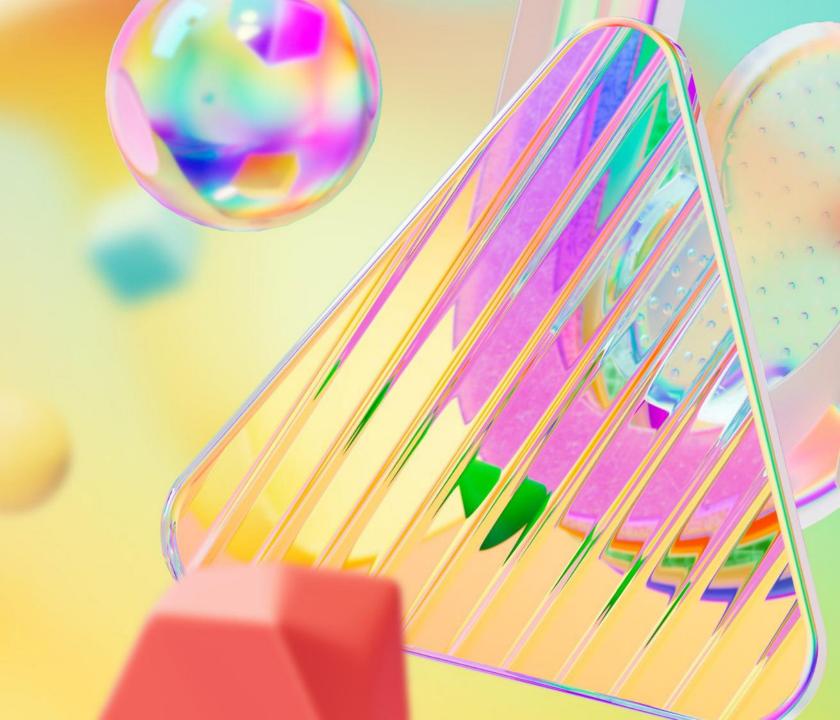


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In-place modernization challenges

- · You must use a framework supporting both old and new .NET
 - There are not many options
 - · DotVVM is the only full-featured framework I am aware of

Choose the method that suits your scenario.

Thank you!

- · We appreciate your time with us
- For more info: tomas.herceg@riganti.cz
- Stop by the Expert Meet-up to get your questions answered
- Your feedback is important! Visit <u>https://aka.ms/MicrosoftBuildEvals</u>
 to complete your session evaluations

