ASP.NET Core WebAPI Jam Session

# Create ASP.NET WebAPI Project with Controllers

* Create scaffolded project from template

# Middleware

* Implement Middleware
  + Implement **IMiddleware**
  + Register in DI
  + **UseMiddleware<...>()**

# 00 Hell On Earth

* Can test repository... Yay!
* No SRP!
* Not DIP!
* DateTime.Now hardcoded!
* ...

# 01 Better

* Better SRP!
* DIP!
* Volatile dependency injected: DateTime.Now!

But...

* Service gets MANY unrelated dependencies over time

# 02 Cleaner

* Complete SRP!
* Complete DIP!
* Loosely coupled!
* Discuss: **JsonPropertyName**
* Can unit test everything (proof in Demo 03)

And – while we were at it:

* We fixed the error reporting to Problem Details

# (02.1 Variations)

* Result Pattern
* Fluent Validation

# **Manually add xUnit Test Project before 03!!**

* Add xUnit Test Project
* Add test for **GotoQueryMapper**
* Add

<ItemGroup>

<InternalsVisibleTo Include="Tests" />

</ItemGroup>

# 03 xUnit

* Show remaining tests for **GotoQueryHandler**
* But can we exploit common setup etc...?

# 04 Architecture Tests

* ... Yes! See here!
* Also added Architecture Tests to ensure consistent clean architecture

# Create ASP.NET WebAPI Project with Minimal API

* Create scaffolded project from template