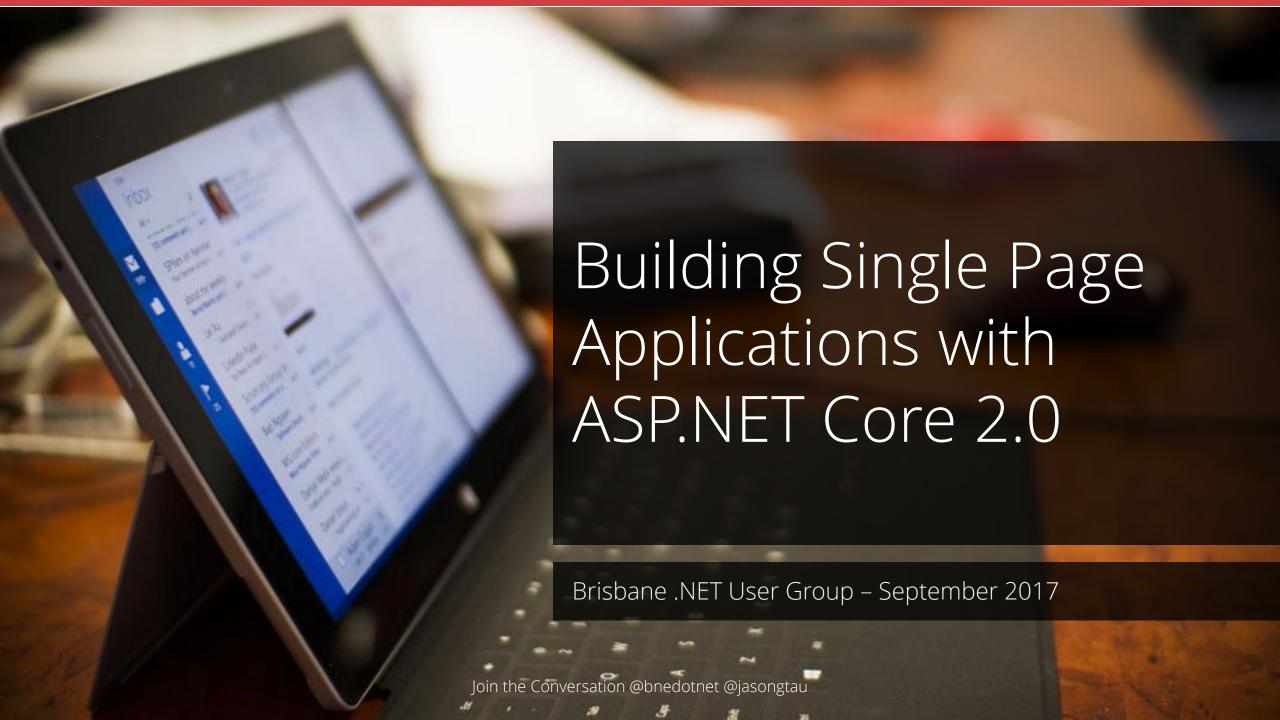


Enterprise Software Development





Jason Taylor

SSW Solution Architect

Master of Information Technology

Microsoft Certified Solutions Developer

Certified Scrum Master (CSM)





Join the Conversation @bnedotnet @jasongtau

SignalR for ASP.NET Core 2.0

Incredibly simple real-time web for .NET

Rewrite of original SignalR

JavaScript/TypeScript Client – no more jQuery

Distributed as an npm module

Learn more; bit.ly/signalr-aspnetcore2



Clean Architecture

Clean Architecture

Independent of frameworks

Testable

Independent of UI

Independent of database

Independent of external agency

bit.ly/clean-architecture-book



ASP.NET Core JavaScript Services

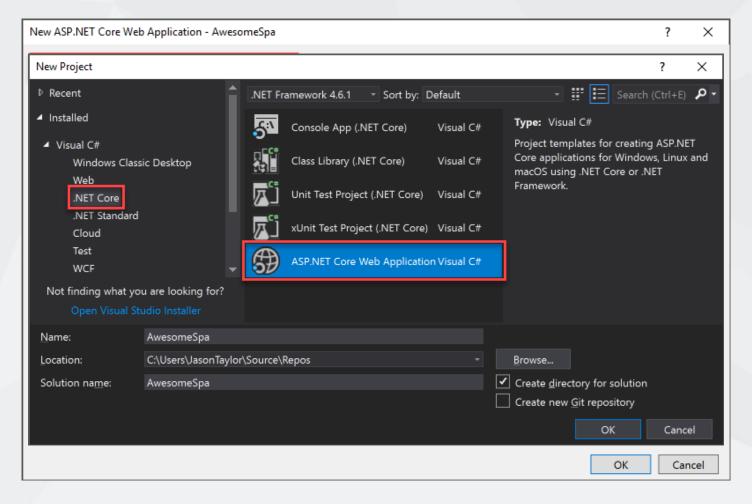
ASP.NET Core has built-in support for SPA

Supports all major client-side frameworks

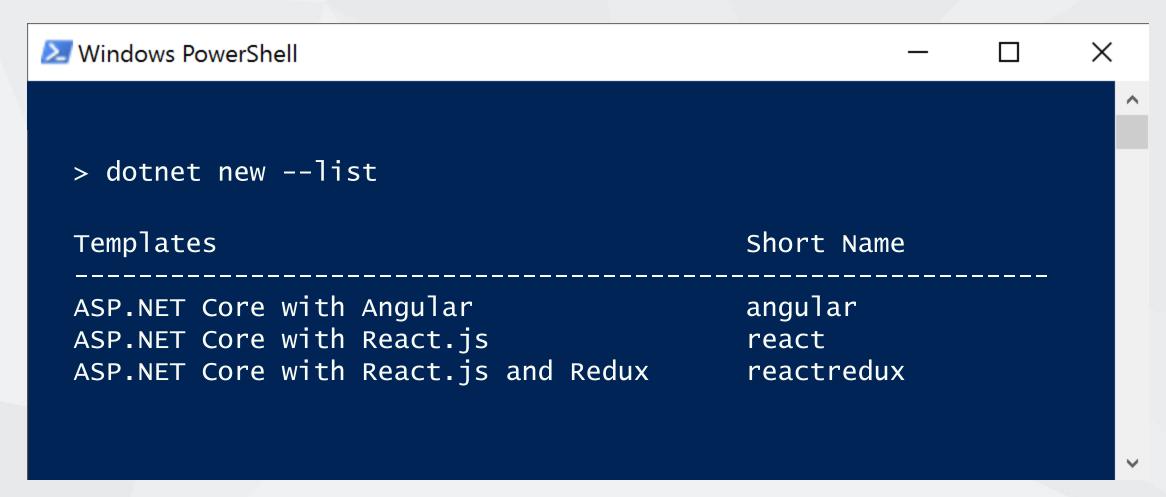
Cross-platform Windows, Mac, or Linux

Use your preferred IDE or code editor

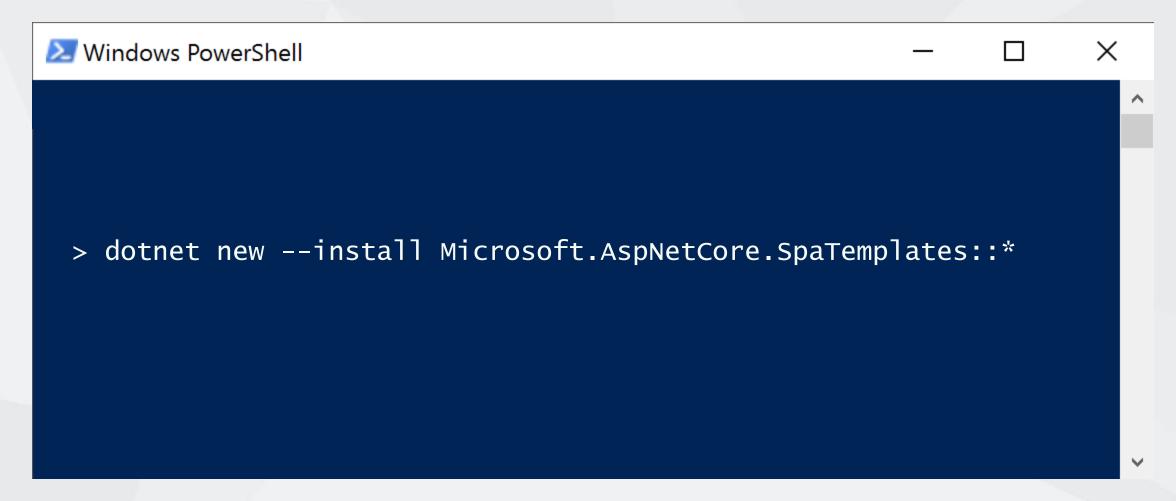
Using Visual Studio 2017



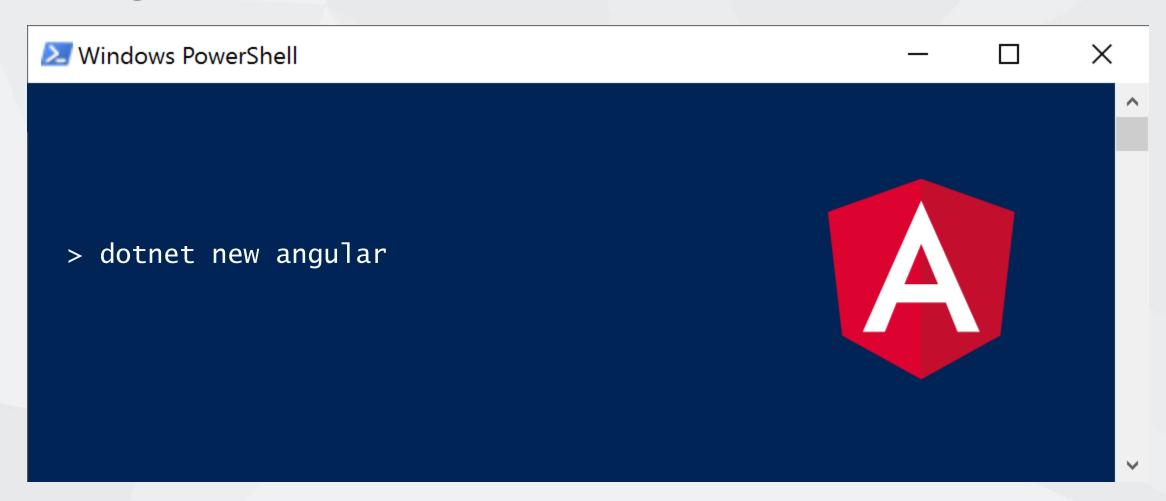
Using .NET Core CLI



Additional Templates



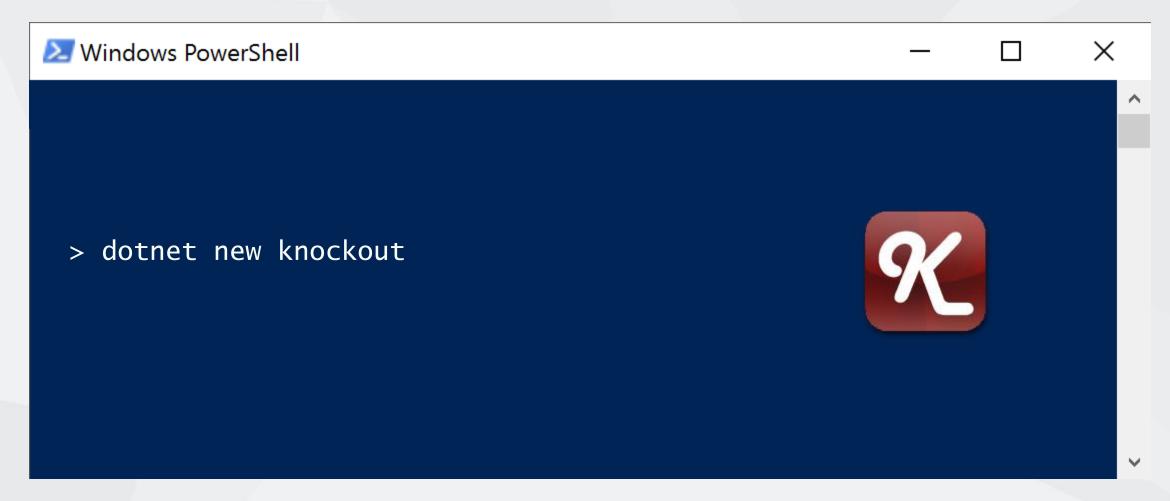
Angular + ASP.NET Core



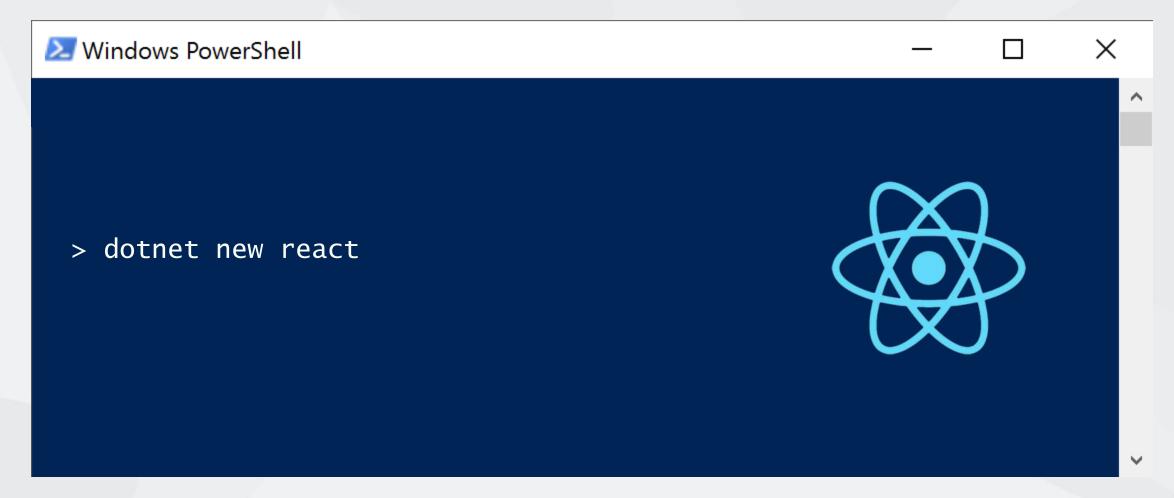
Aurelia + ASP.NET Core



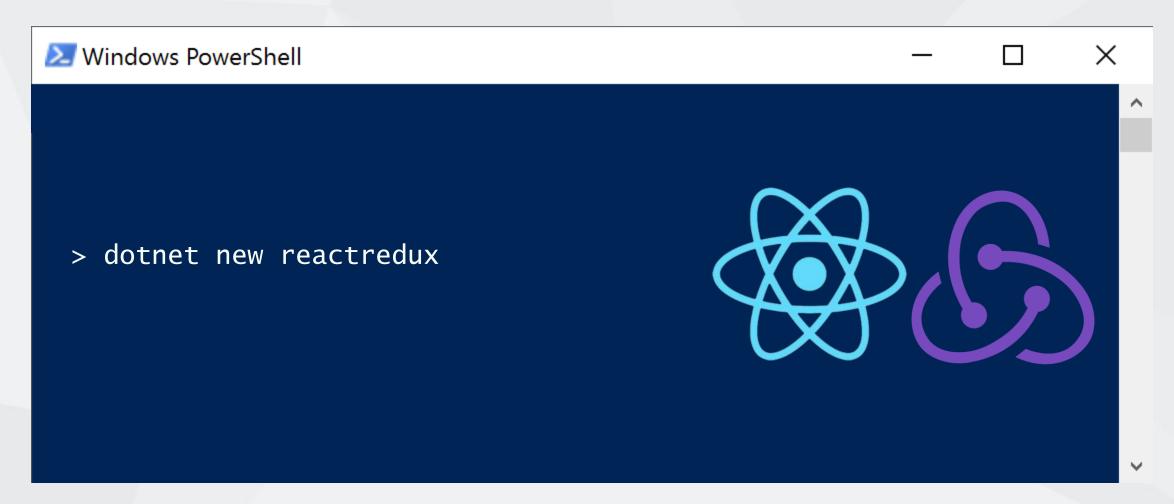
Knockout + ASP.NET Core



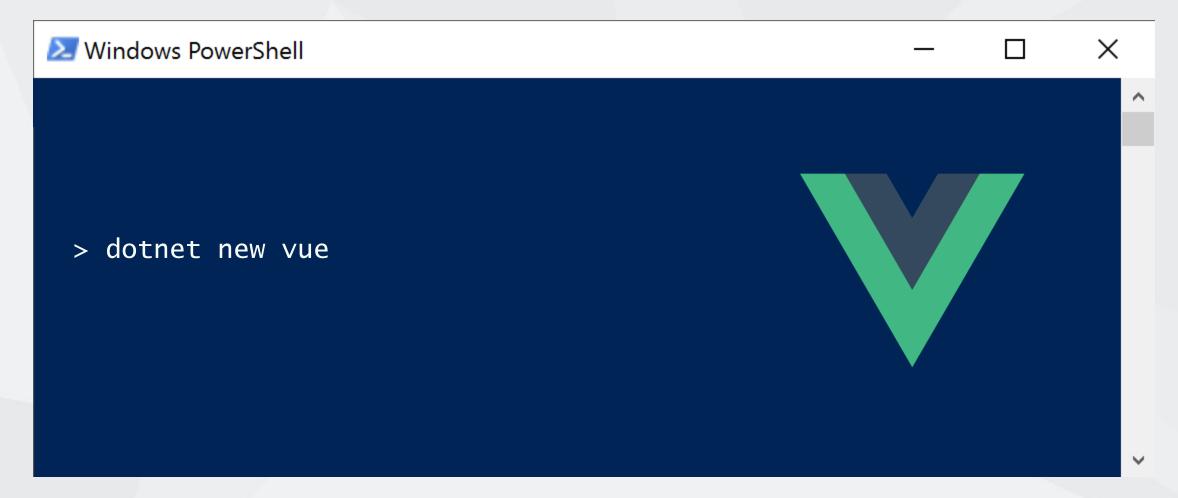
React + ASP.NET Core



React + Redux + ASP.NET Core



Vue + ASP.NET Core



Demo: Creating a SPA

Building single page applications with ASP.NET Core

Summary

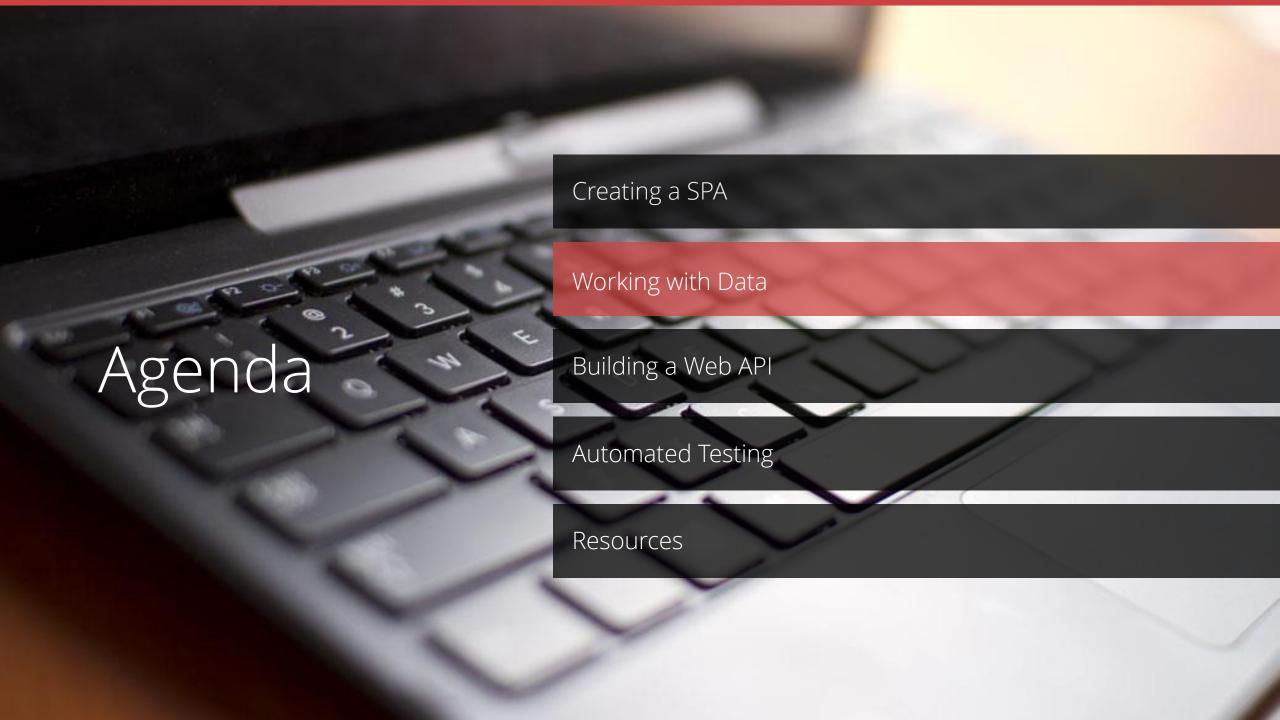
Creating a SPA using .NET Core CLI

Server-side + client-side navigation

Webpack dev middleware

Hot module replacement (HMR)

.NET Core Watcher tool



Entity Framework Core

Lightweight, extensible, and cross-platform

Runs on .NET Core or .NET Framework

Choosing between EF6.x and EF Core (bit.ly/ef6-vs-core)

Porting from EF6.x to EF Core (bit.ly/ef6-to-core)

EF Core Roadmap (bit.ly/efcore-roadmap)

Demo: Working with Data

Create and managing databases using EF Core and .NET Core CLI

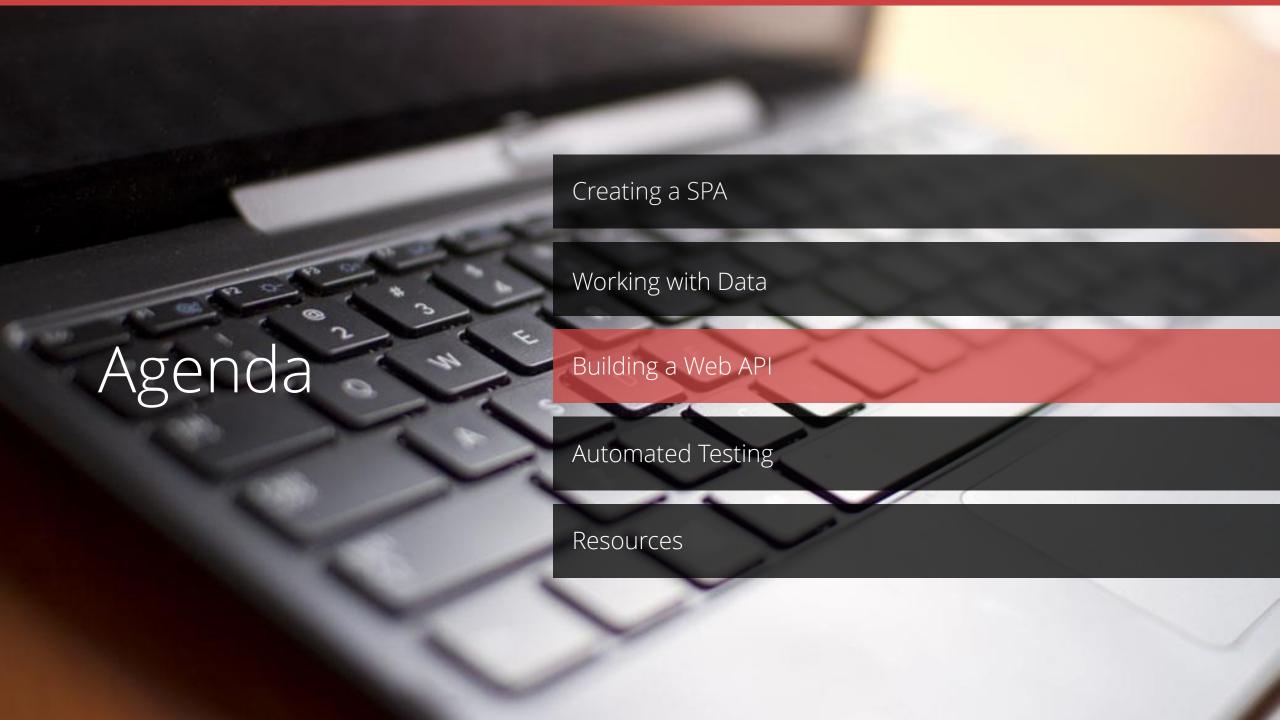
Summary

Requirements for the EF Core / .NET Core CLI tools

Creating an initial migration

Updating the database

Seeding the database



Demo: Building a Web API

Creating an awesome ASP.NET Core Web API

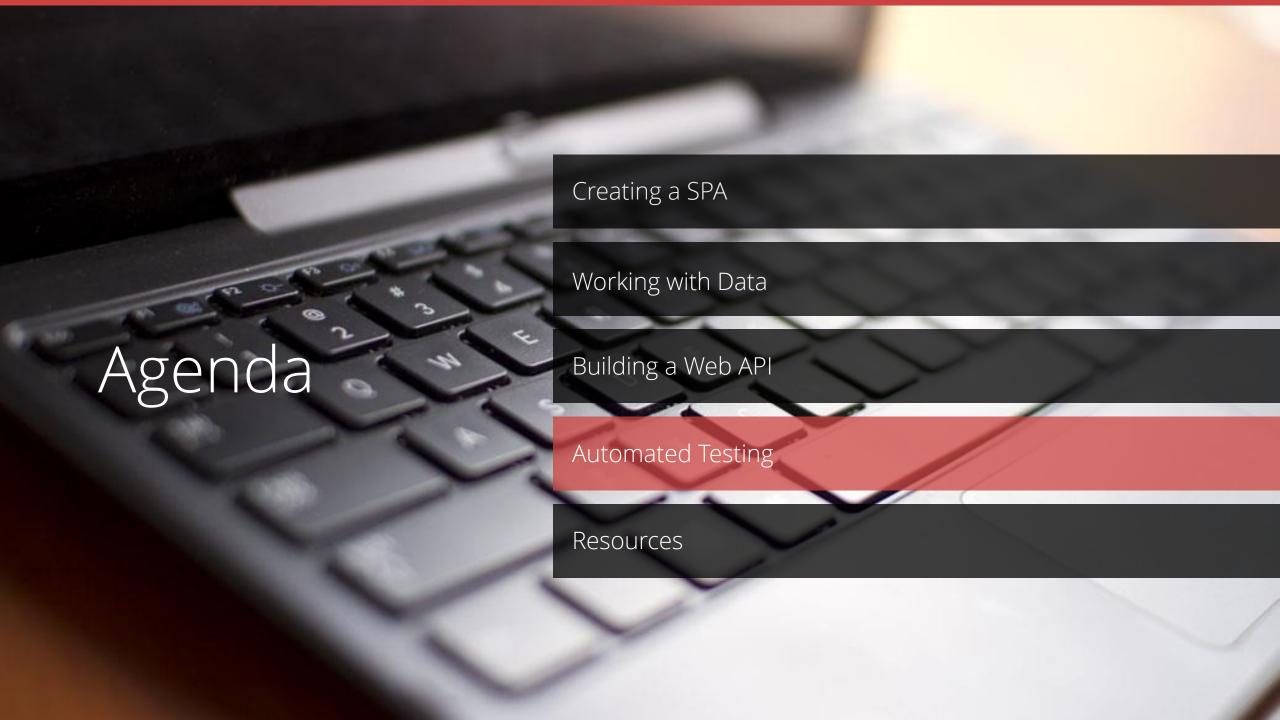
Summary

Using CQRS to improve separation of concerns

Using filters to manage cross-cutting concerns

Documenting your API using NSwag

Generating client-side code with the NSwag CLI



EF Core InMemory Provider

Just a database provider

Uses in-memory database

Built for testing purposes

No overhead of I/O operations

Lightweight with minimal dependencies

Demo: Unit Testing

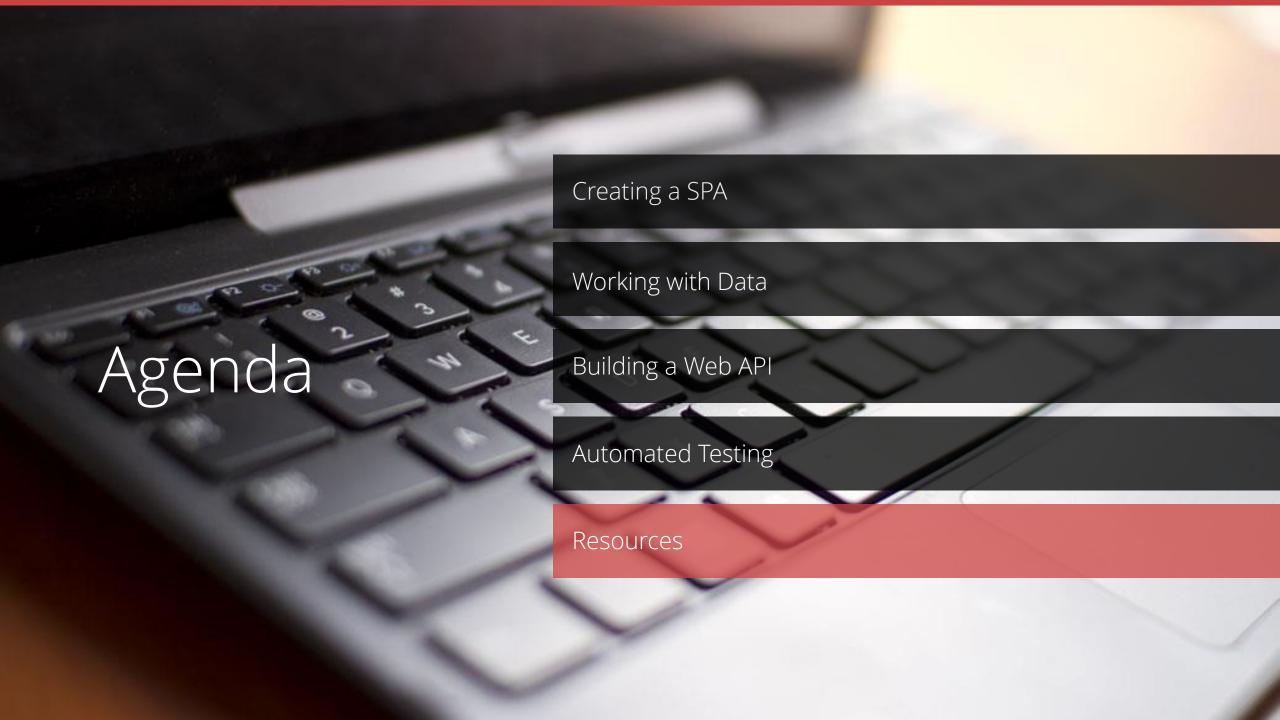
Creating simple unit tests using the EF Core InMemory provider.

Summary

Using the EF Core InMemory provider

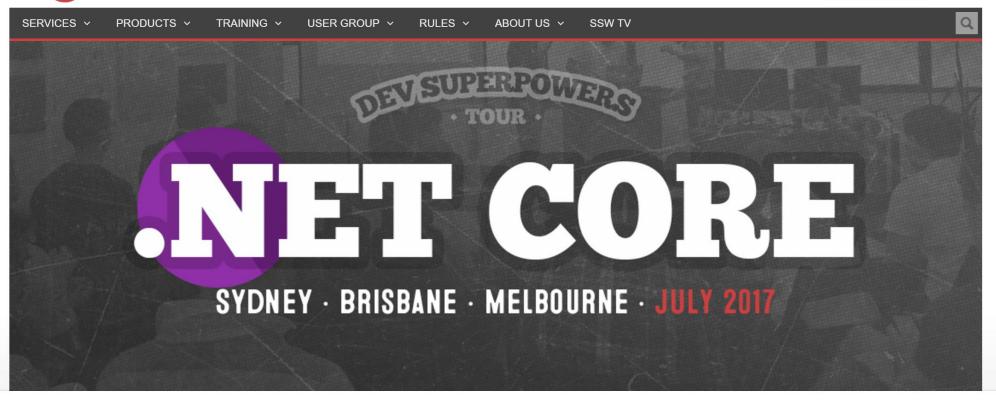
A simple approach for testing commands

A simple approach for testing queries









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Jason Taylor

Jason is a passionate solution architect with over 16 years

professional experience. ed with .NET since 2001.

He has worked with .NET since 2001, and currently specialises in teaching and developing enterprise applications

utilising .NET Core, ASP.NET Core, EF

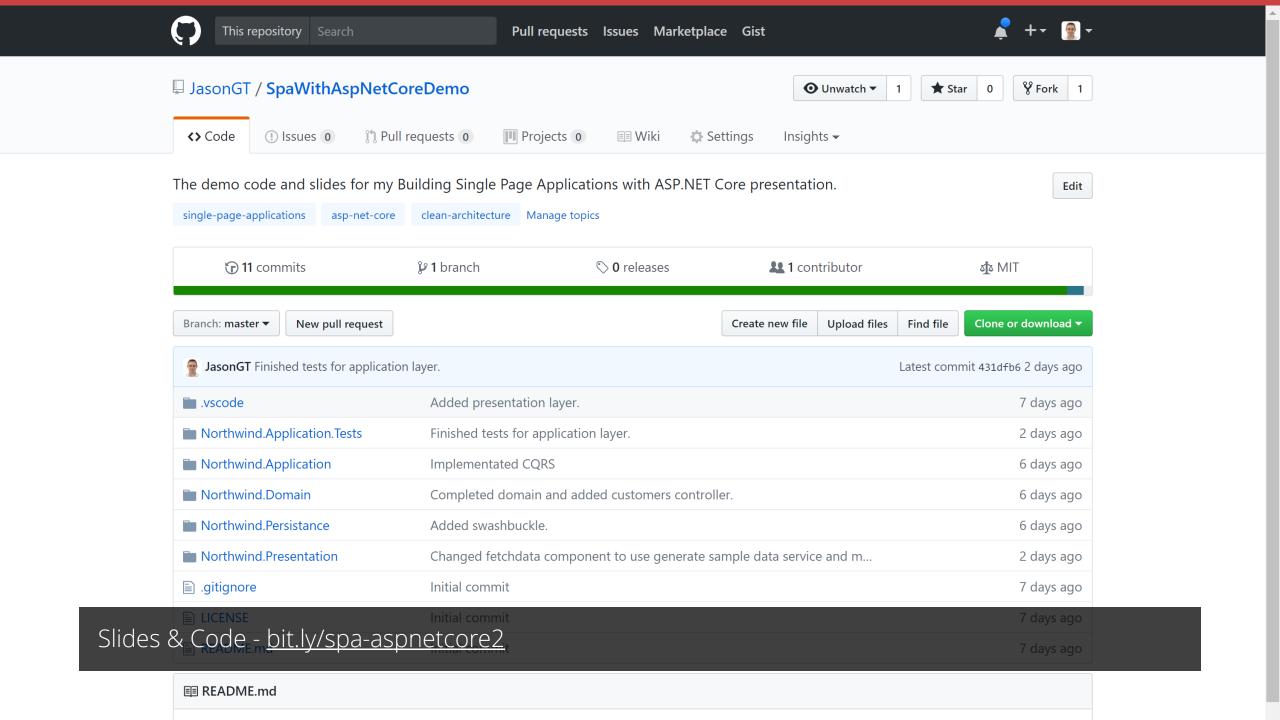
SSW .NET Core Dev Superpowers Tour – Melbourne – Thursday, 19th October 2017 Technology (Software

.NET Core is out and it's the most powerful and flexible version ever!

Much of the day to day and you write will be the same, but much of the probite turn and how your project fits together has abanged

Architecture) in 2011 and Microsoft Certified Solutions Developer (Web

Applications) in 2016. Jason loves a challenge and is skilled at progressing



Thank you!

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