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# Jason Taylor

SSW Solution Architect

Master of Information Technology

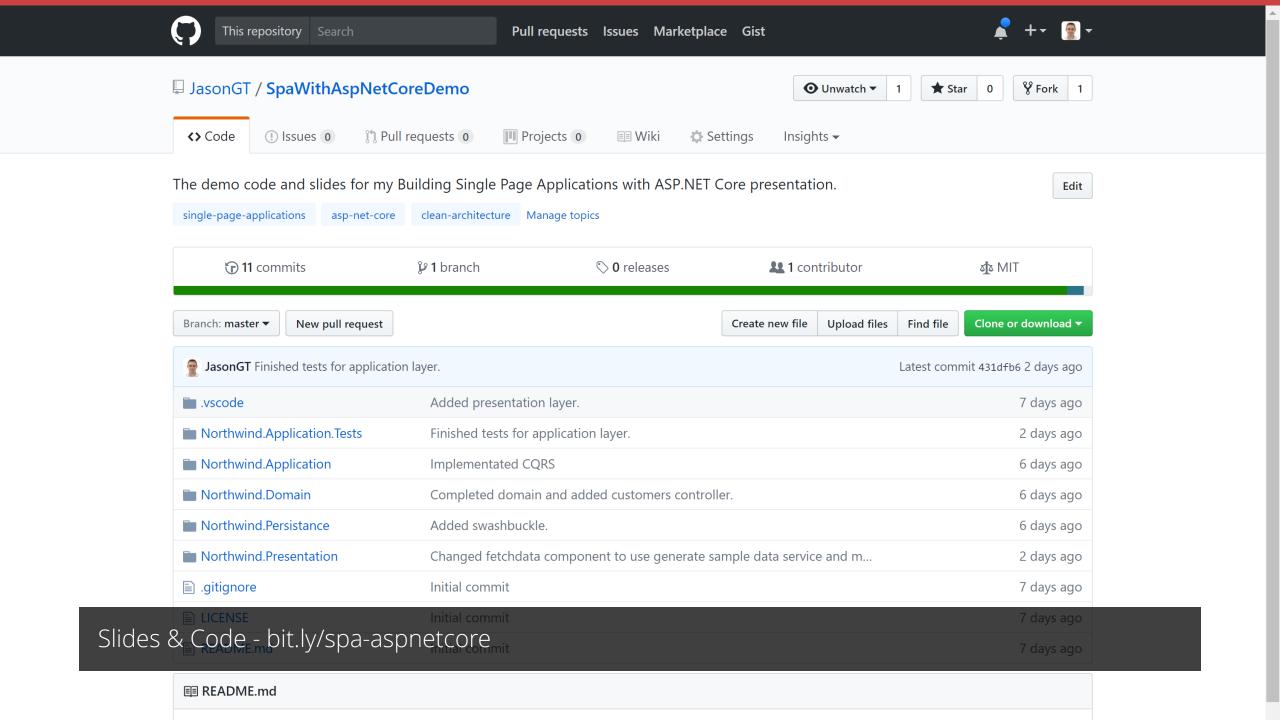
Microsoft Certified Solutions Developer

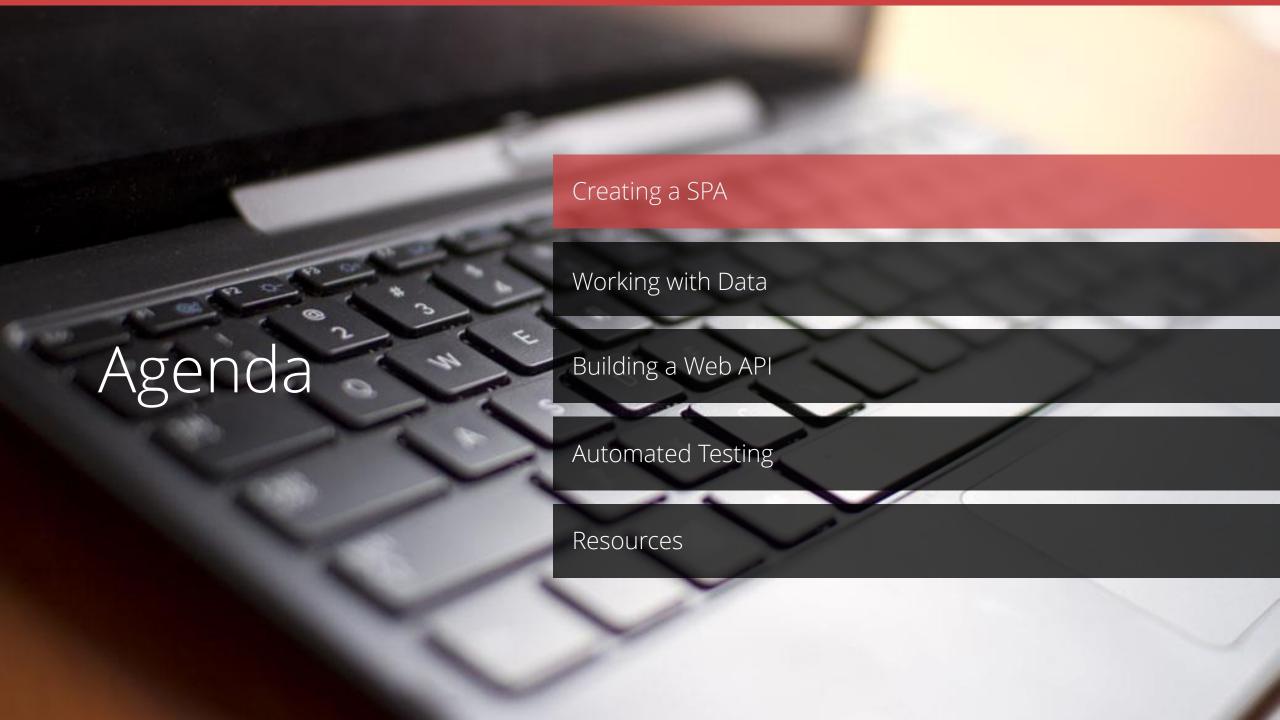
Certified Scrum Master (CSM)





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# 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

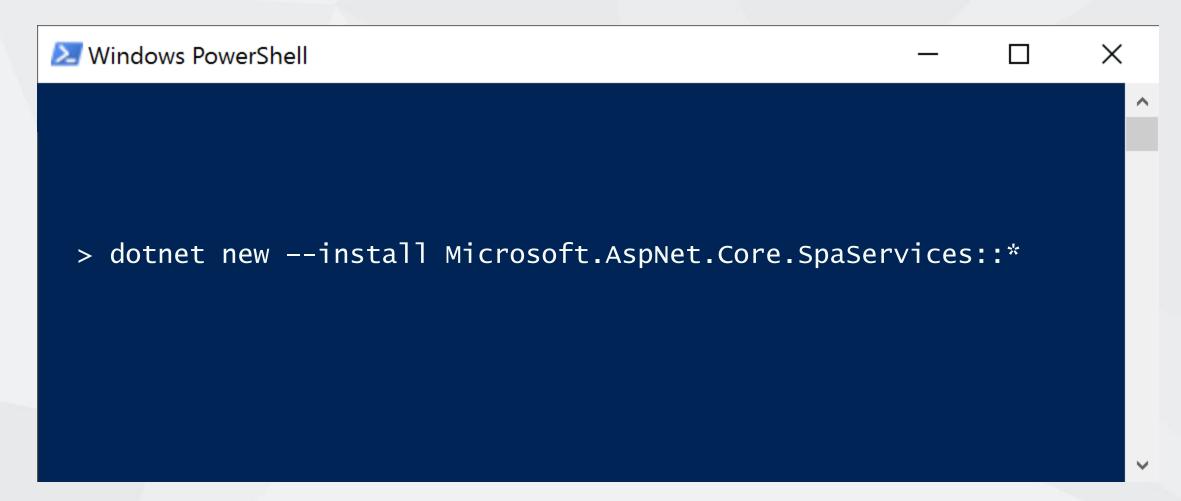
Use your preferred IDE or code editor

# Prerequisites

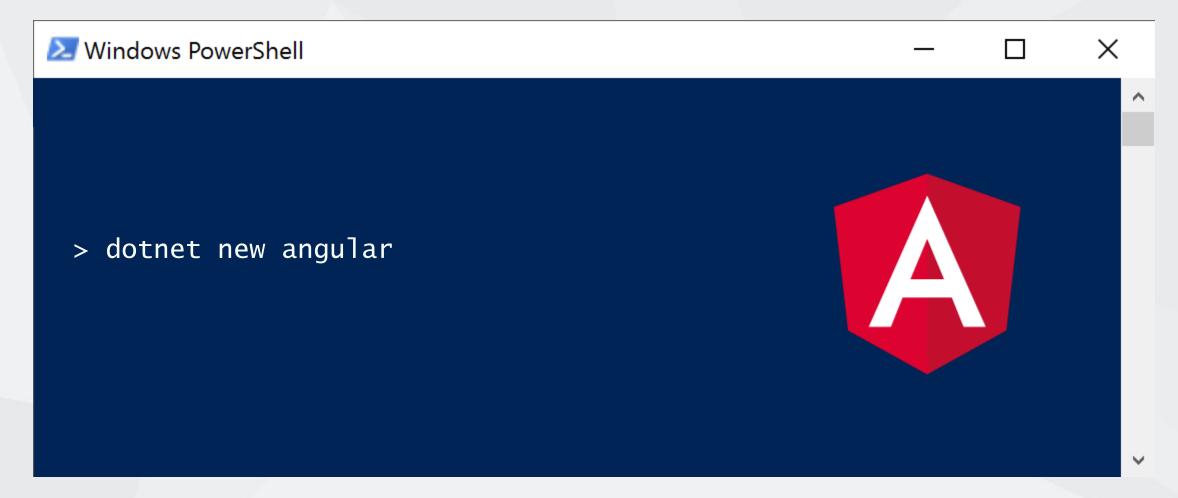
Node.js (version 6 or later) with npm

.NET Core SDK

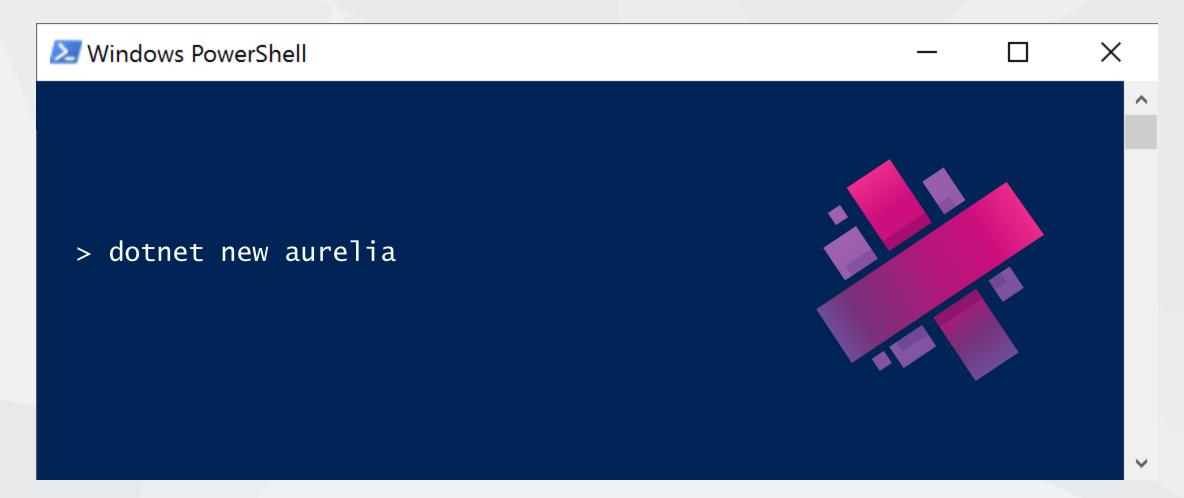
#### Installation



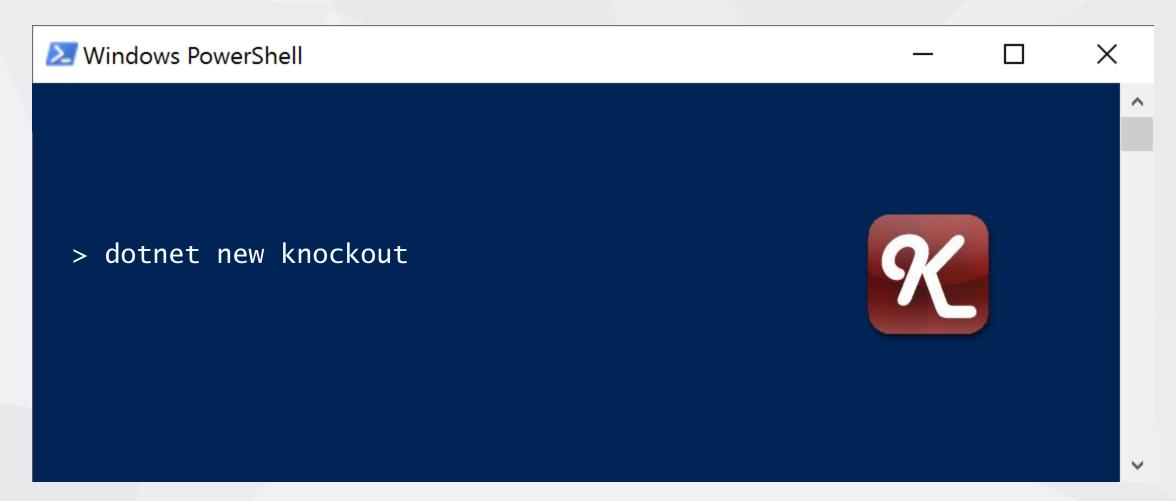
# Angular + ASP.NET Core



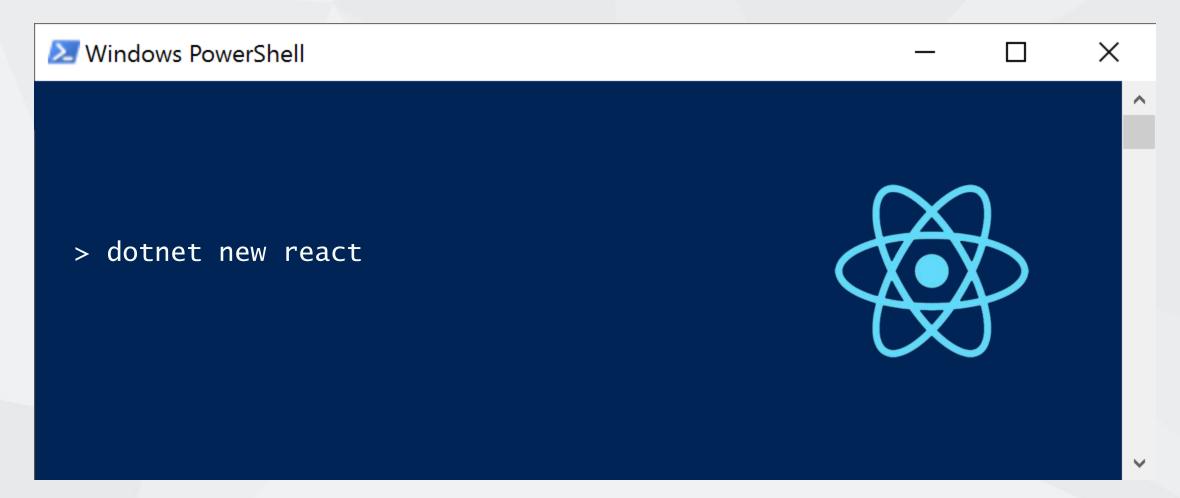
#### Aurelia + ASP.NET Core



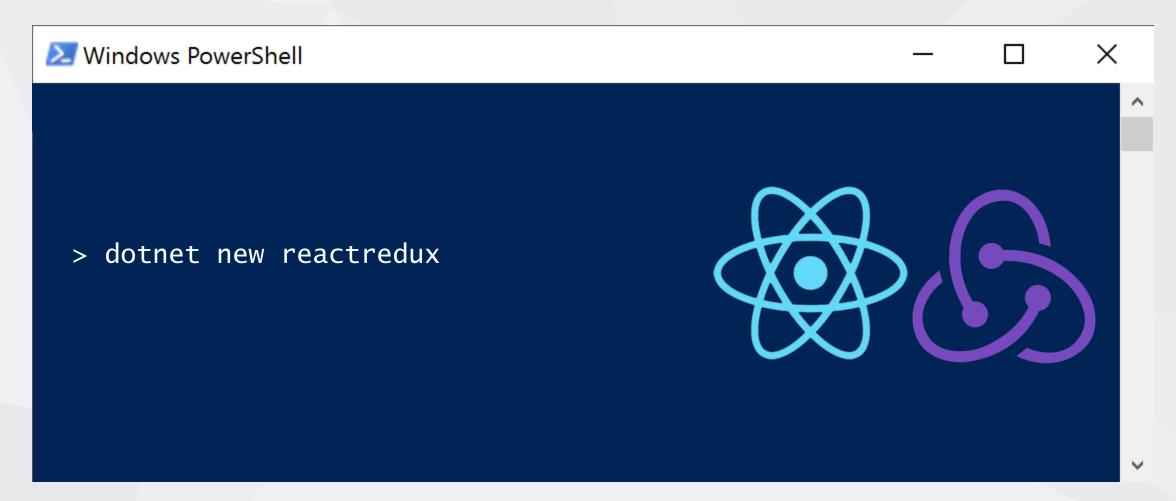
### Knockout + ASP.NET Core



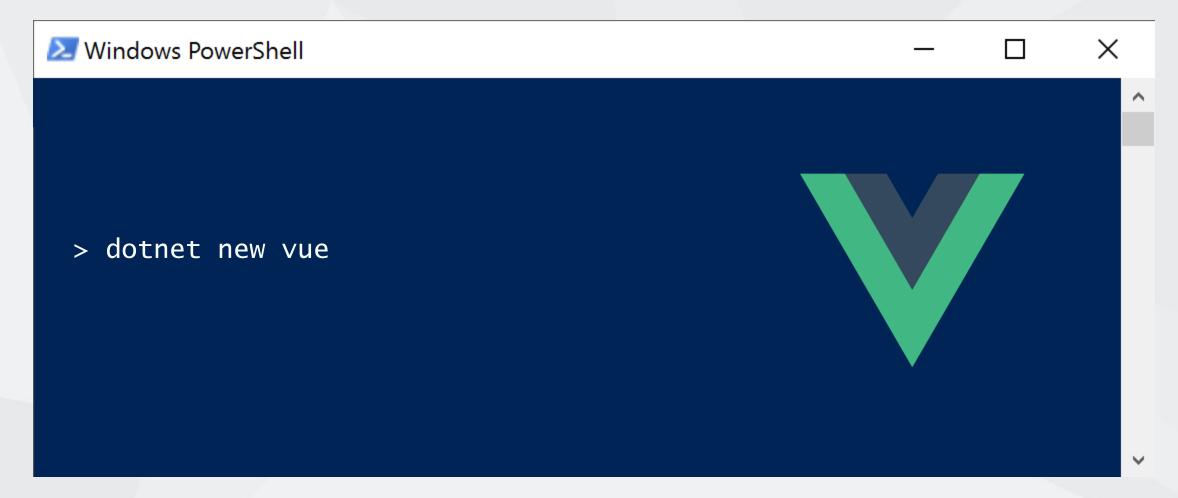
#### React + ASP.NET Core



#### React + Redux + ASP.NET Core



#### Vue + ASP.NET Core



### Demo: Creating a SPA

Building single page applications with ASP.NET Core

## Summary

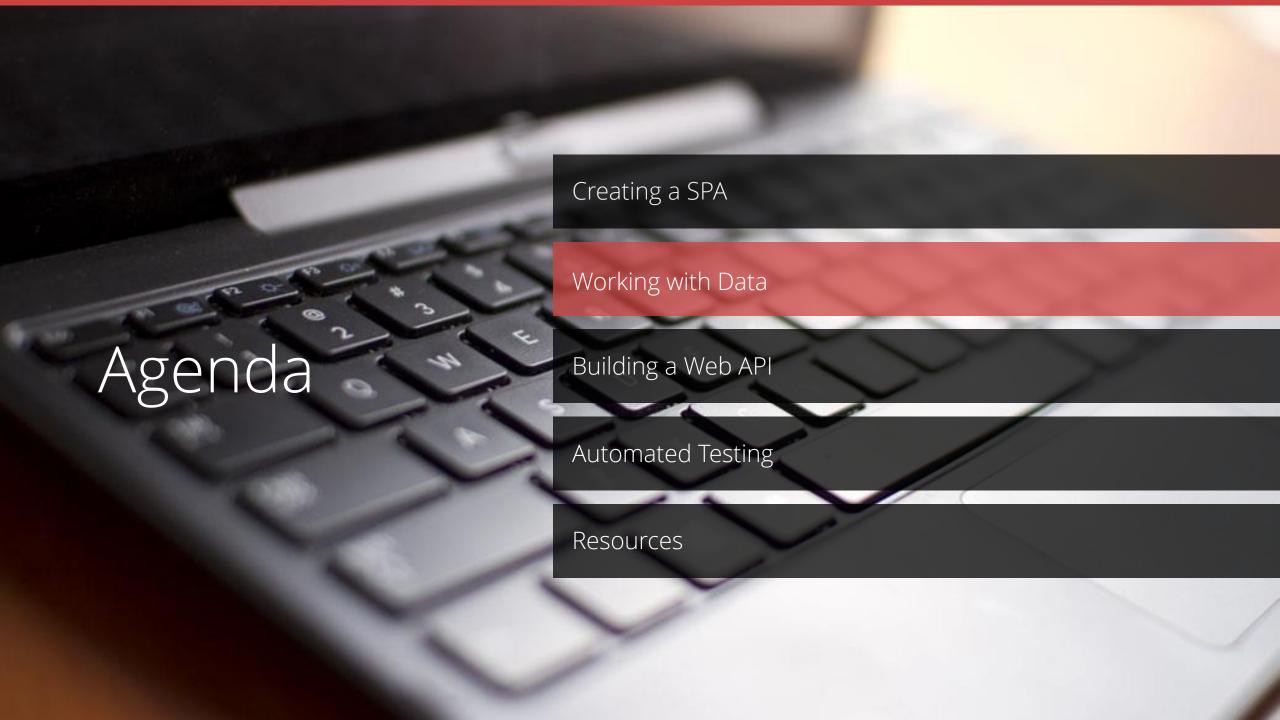
Creating a SPA using .NET Core CLI

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

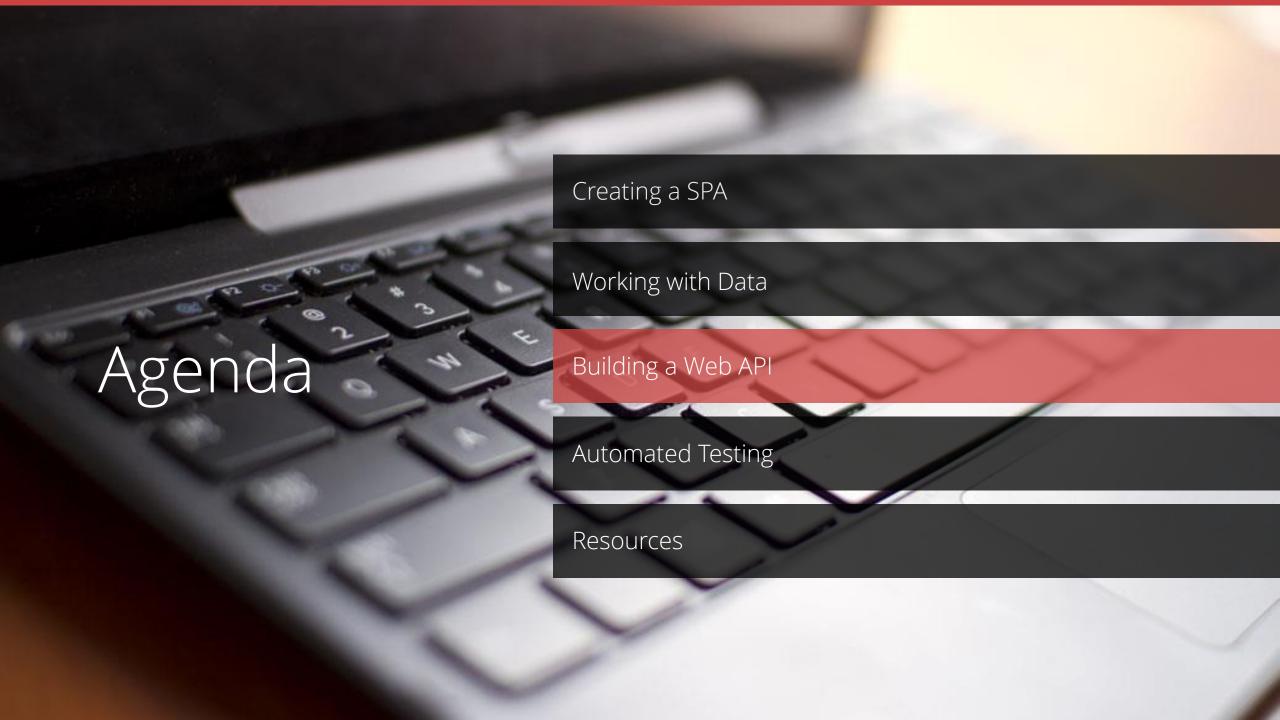
### Summary

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 awesome ASP.NET Core Web API

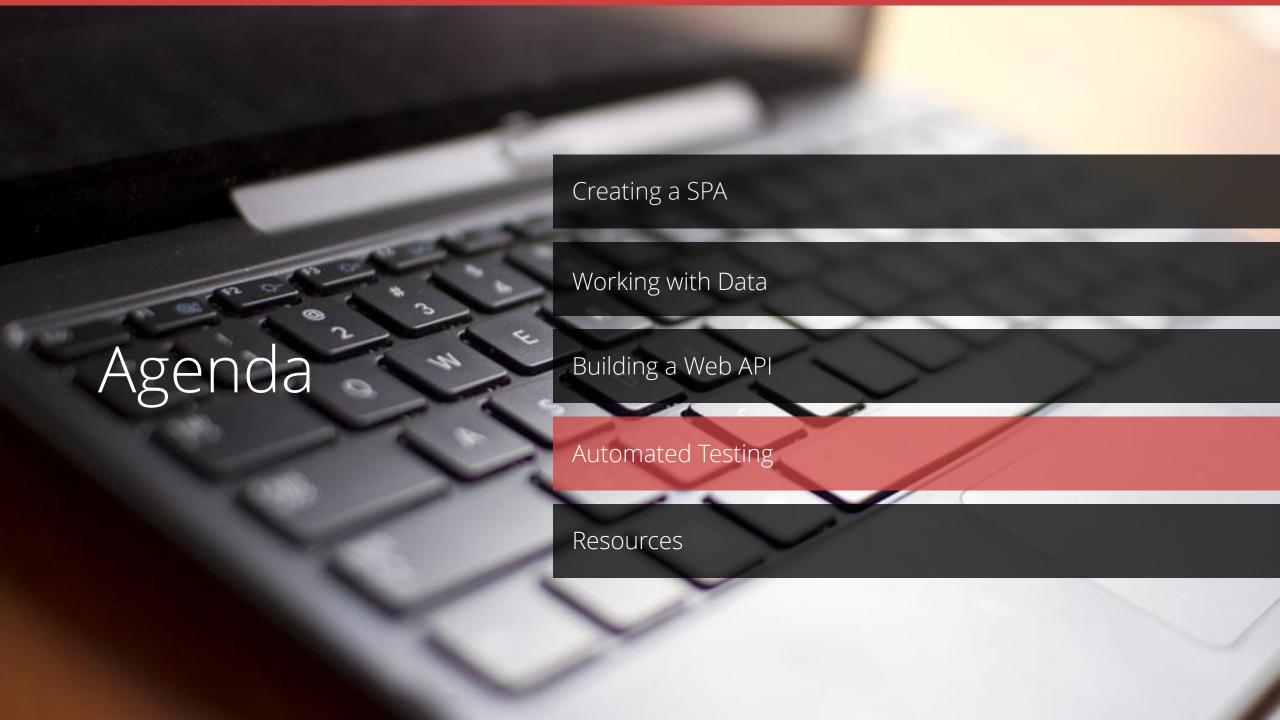
### Summary

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

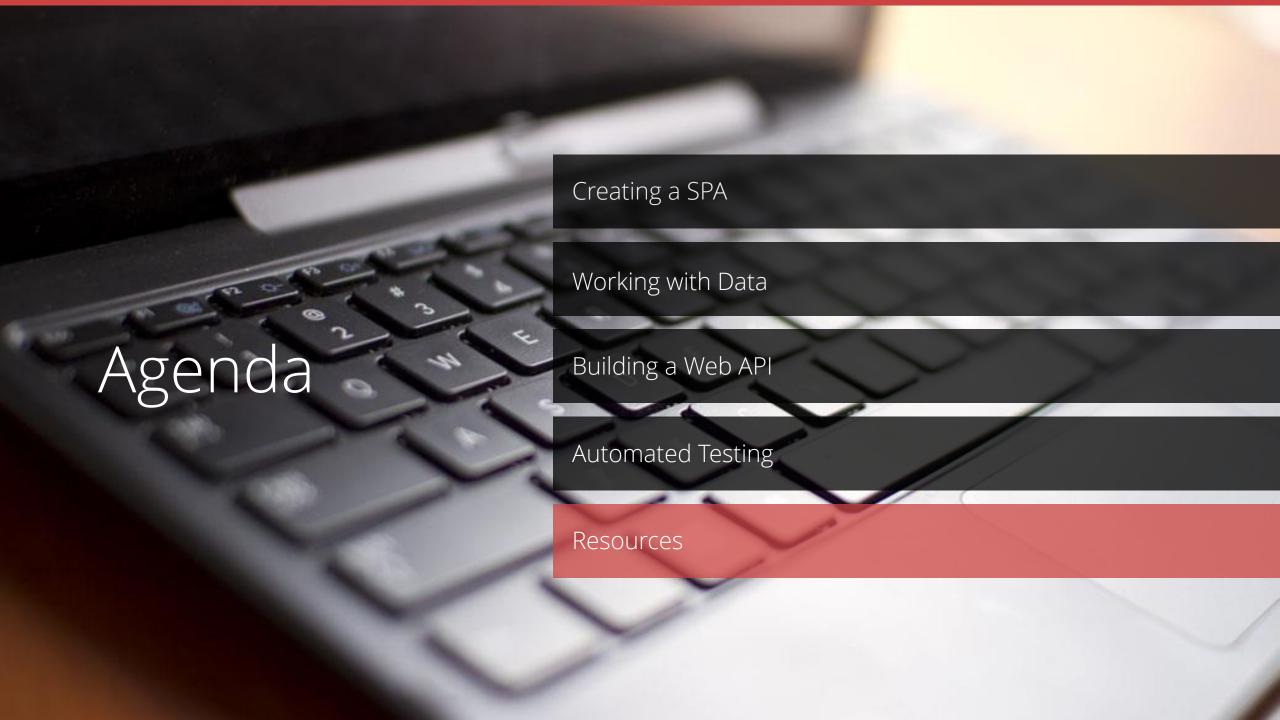
Creating simple unit tests using the EF Core InMemory provider.

### Summary

Using the EF Core InMemory provider

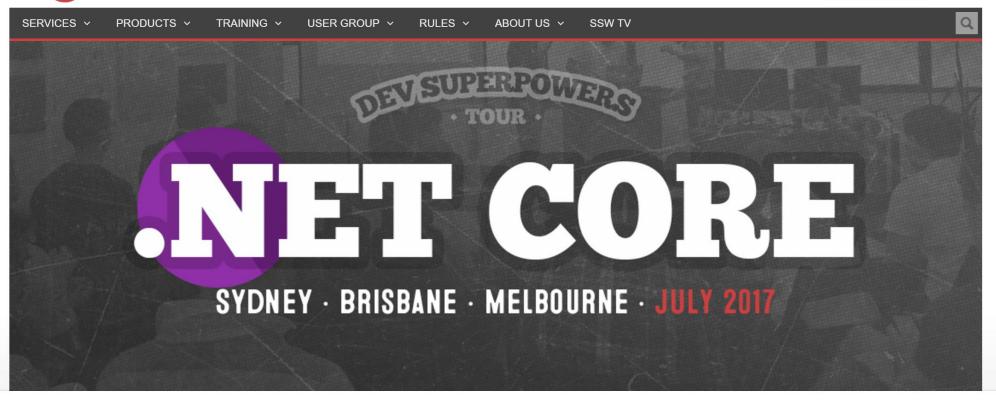
A simple approach for testing commands

A simple approach for testing queries









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SSW Sydney

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, 19<sup>th</sup> 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







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specialising in making responsive

world issues is what makes Duncan tick.

**Duncan Hunter** 

Duncan Hunter a Software Architect at SSW. Making sustainable

software that solves real

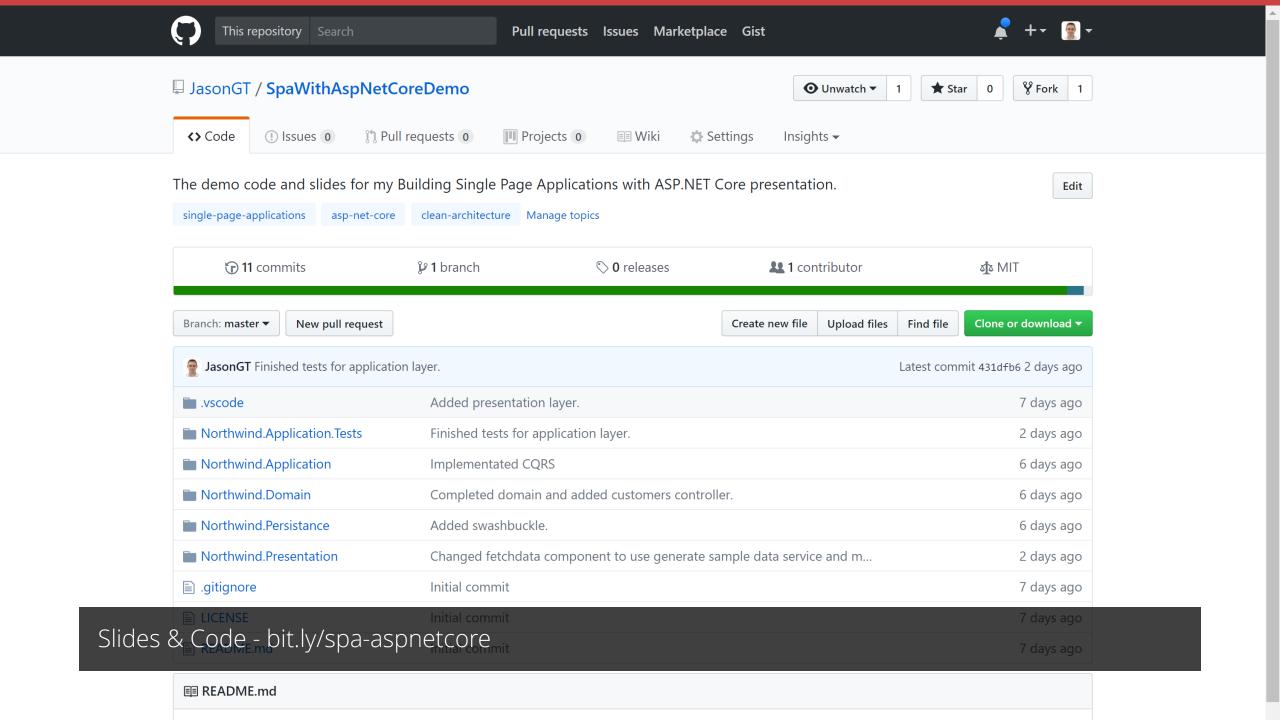
#### SSW Angular Dev Superpowers Tour – Melbourne – Thursday, 16th November 2017

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He is a full stack web developer

teams learn and implement modern frontend build processes to produce scalable and maintainable applications



### Thank you!

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