

Enterprise Software Development



CILIAIN ARCHITECTURE

ONLINE EVENT · MAY 2020



Jason Taylor

SSW Solution Architect

Developer, Mentor, Speaker & Trainer

.NET 5 (since Preview 1.0)

.NET Core (since 1.0)

.NET (since 1.0 in 2002)





github.com/jasontaylordev



jasontaylor.dev



youtube.com/jasontaylordev



Matt Goldman

SSW Software Architect

Web and Mobile Developer

.NET Core

Xamarin

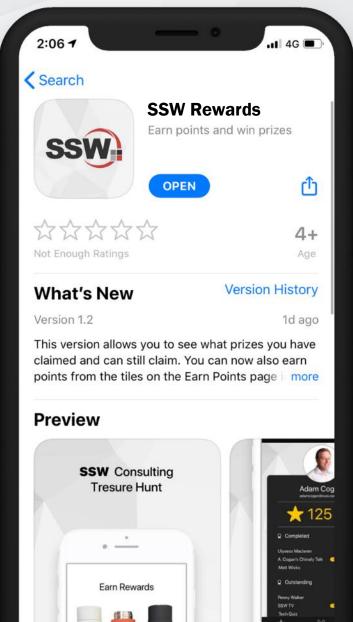




github.com/mattgoldmanssw



a goforgoldman.com



- 1. Scan QR Code to install app
- 2. Scan SSW codes at talks and events
- 3. Earn **SSW Points** claim rewards, and win prizes





Timetable

09:00	Start
10:45 - 11:00	Morning Tea
12:30 - 13:30	Lunch
15:15 – 15:30	Afternoon Tea
17:00	Finish

Clean Architecture

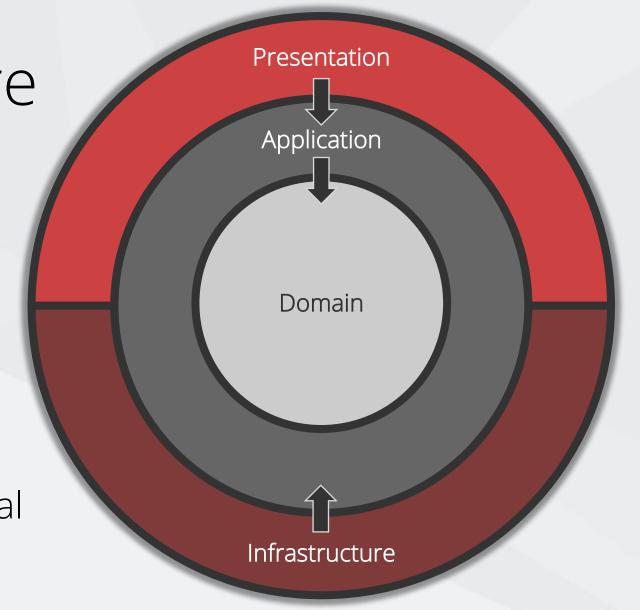
Independent of frameworks

Testable

Independent of UI

Independent of database

Independent anything external



Clean Architecture with ASP.NET Core 3.0

View on YouTube at <u>r.ssw.com/ca-talk</u>

◎ 550,241 views*



Environment Setup



.NET Core SDK 3.1
Required, includes the .NET Core
CLI and .NET Core Runtime
www.dot.net

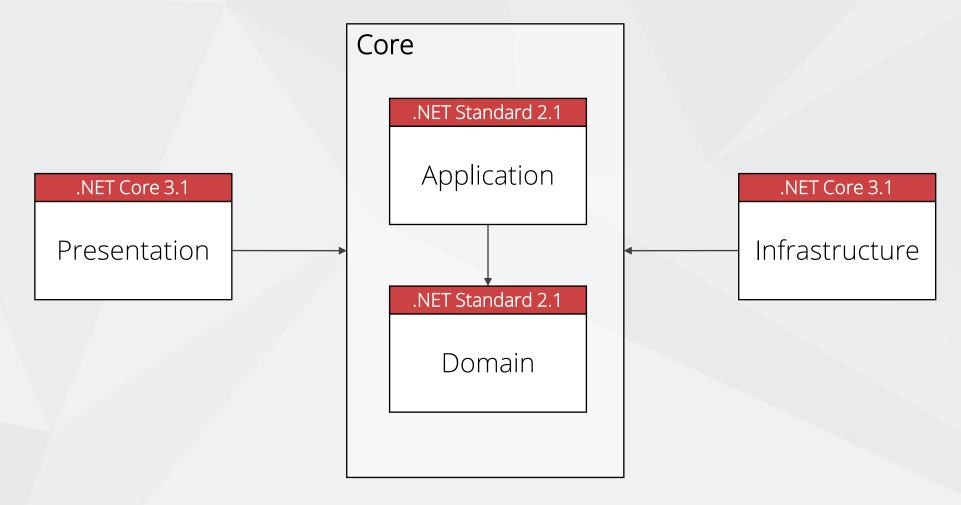


Visual Studio / your preferred IDE

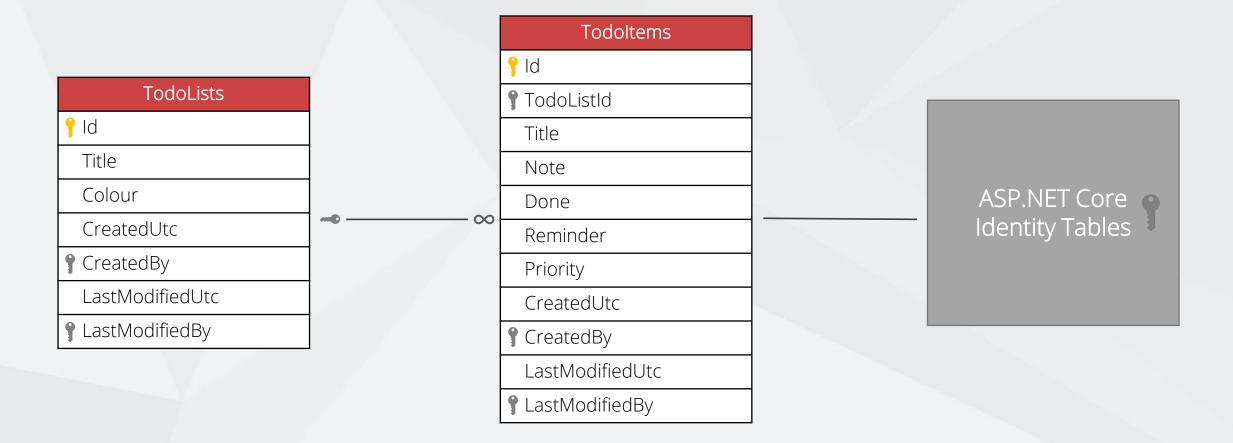
VS optional, however all demos will be coded live using Visual Studio 2019

www.visualstudio.com

Solution Structure



Database Schema



01 Getting Started

Create a New SPA with ASP.NET Core

Building a Data Model with EF Core

Creating ASP.NET Core Web API Controllers

Adding API Help Pages with OpenAPI

02 Beyond the Basics

Architecture & Design

Implementing CQRS with MediatR

Building High Performance Queries with EF Core

Simplifying Object-Object Mappings with AutoMapper

Advanced Validation with FluentValidation

Managing Unhandled Exceptions

Unit Testing Application Logic

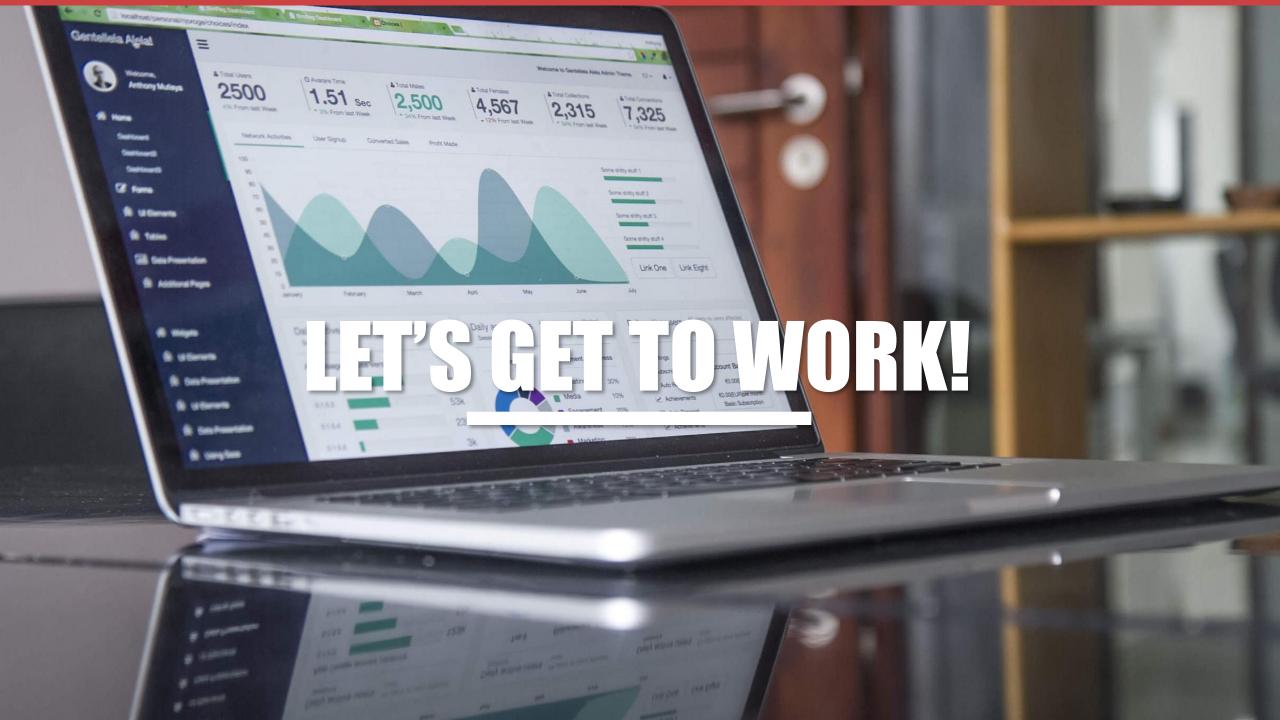
03 Advanced Topics

Working with ASP.NET Core Identity

Improved Logging with MediatR

Automating Open API Specification and Client Generation

Clean Testing





Solution Template

.NET Core Template Package

ASP.NET Core 3.1

Entity Framework Core 3.1

ASP.NET Core Identity 3.1

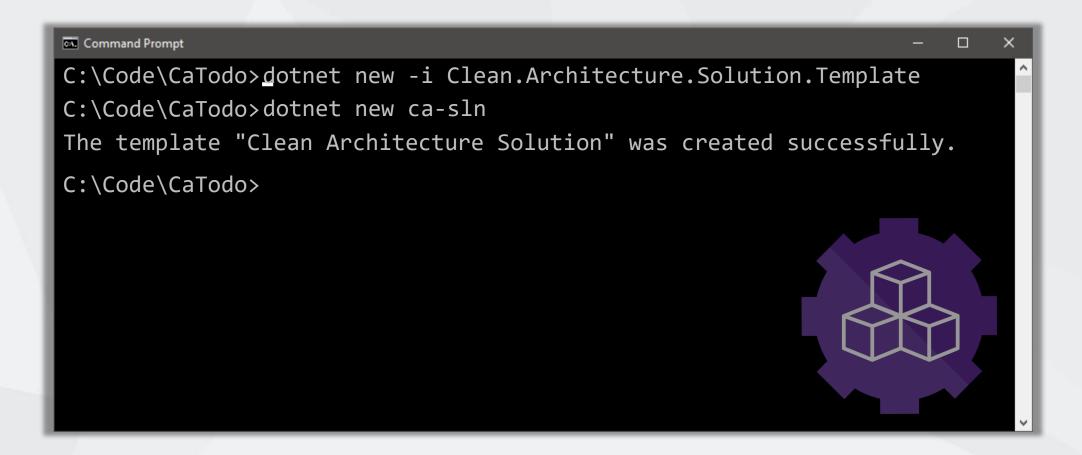
IdentityServer4

View on GitHub <u>r.ssw.com/ca-template</u>



Using the Solution Template







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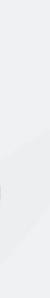
Resources



Cuparpaware			
Superpowers			
Book	r.ssw.com/ca-superpowers-book		
Code	r.ssw.com/ca-superpowers-code		
Rules	r.ssw.com/ca-superpowers-rules		
Samples & Templates			
Northwind Traders Sample	r.ssw.com/northwind-traders		
Clean Architecture Solution Template	r.ssw.com/ca-template		



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