



Enterprise Software Development

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Building Single Page Applications with ASP.NET Core 2.0

Melbourne - .NET User Group – February 2018

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 @JasonGtAu

 codingflow.net

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Agenda

Getting Started with SPA

Building a Web API

Open API Specification (OAS)

Next Steps

ASP.NET Core JavaScript Services

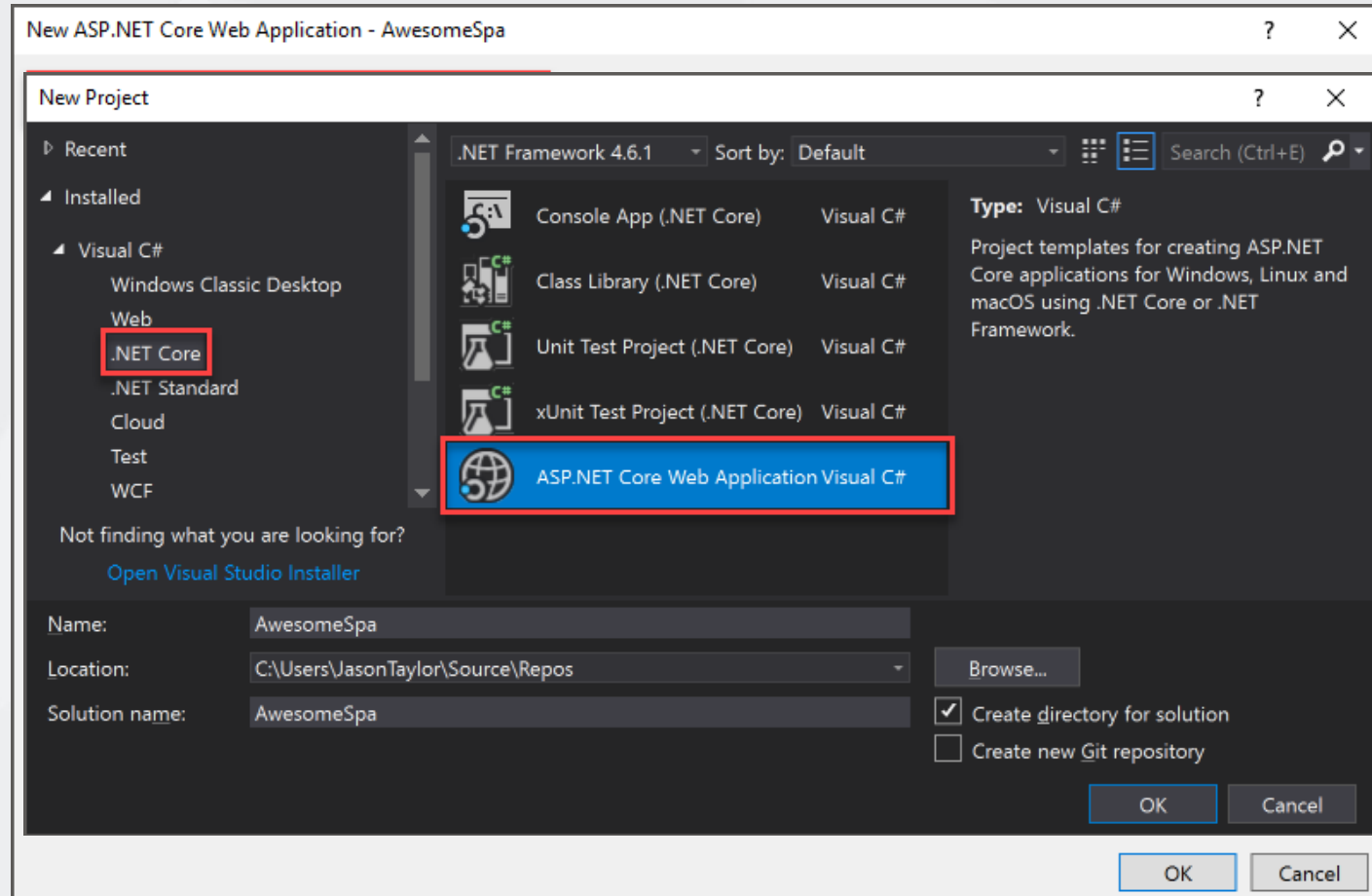
ASP.NET Core has built-in support for SPA

Supports all major client-side frameworks

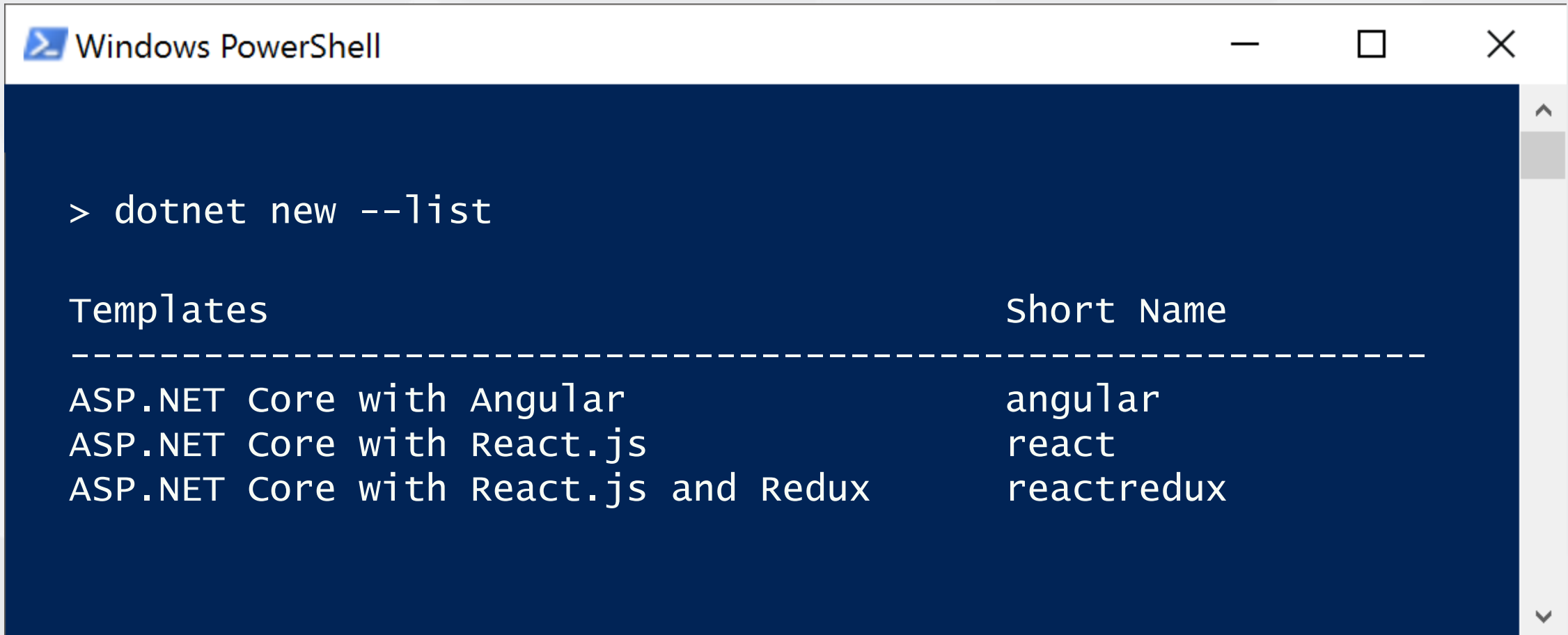
Cross-platform Windows, Mac, or Linux

Use your preferred IDE or code editor

Using Visual Studio 2017



Using .NET Core CLI

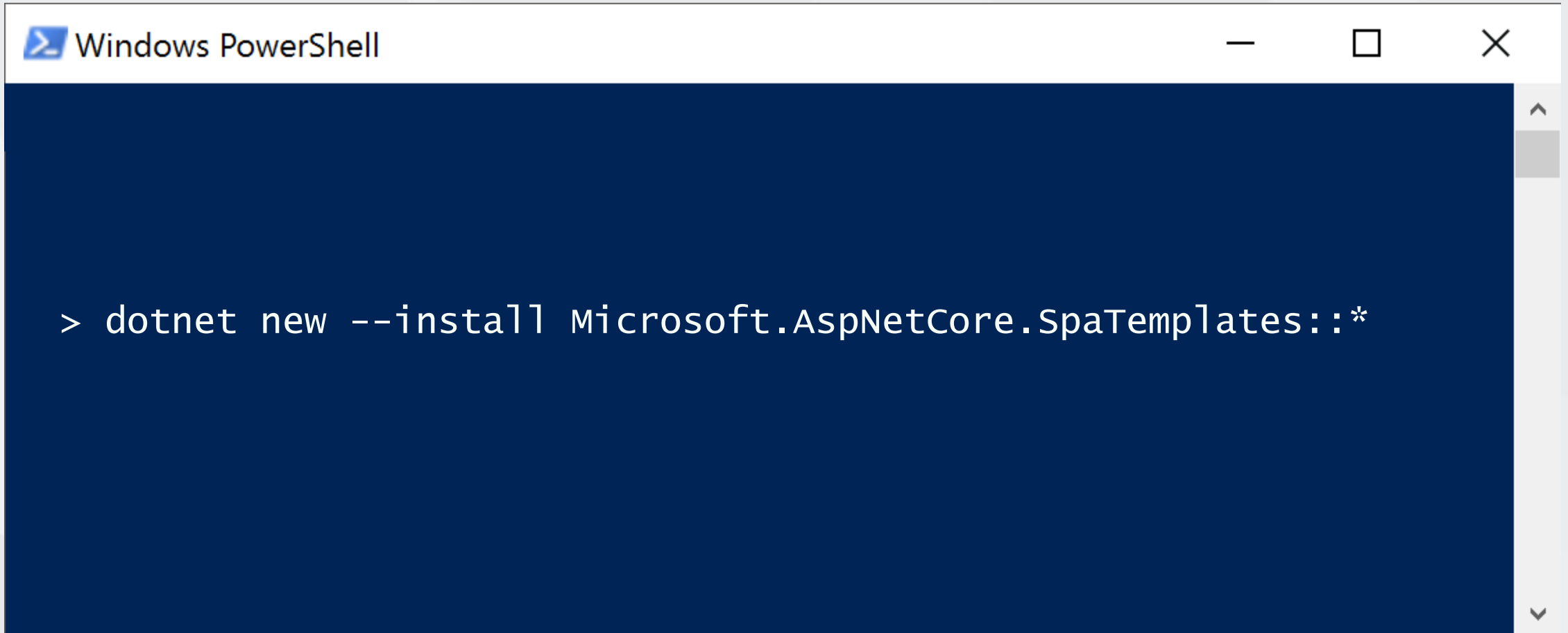


```
Windows PowerShell

> dotnet new --list

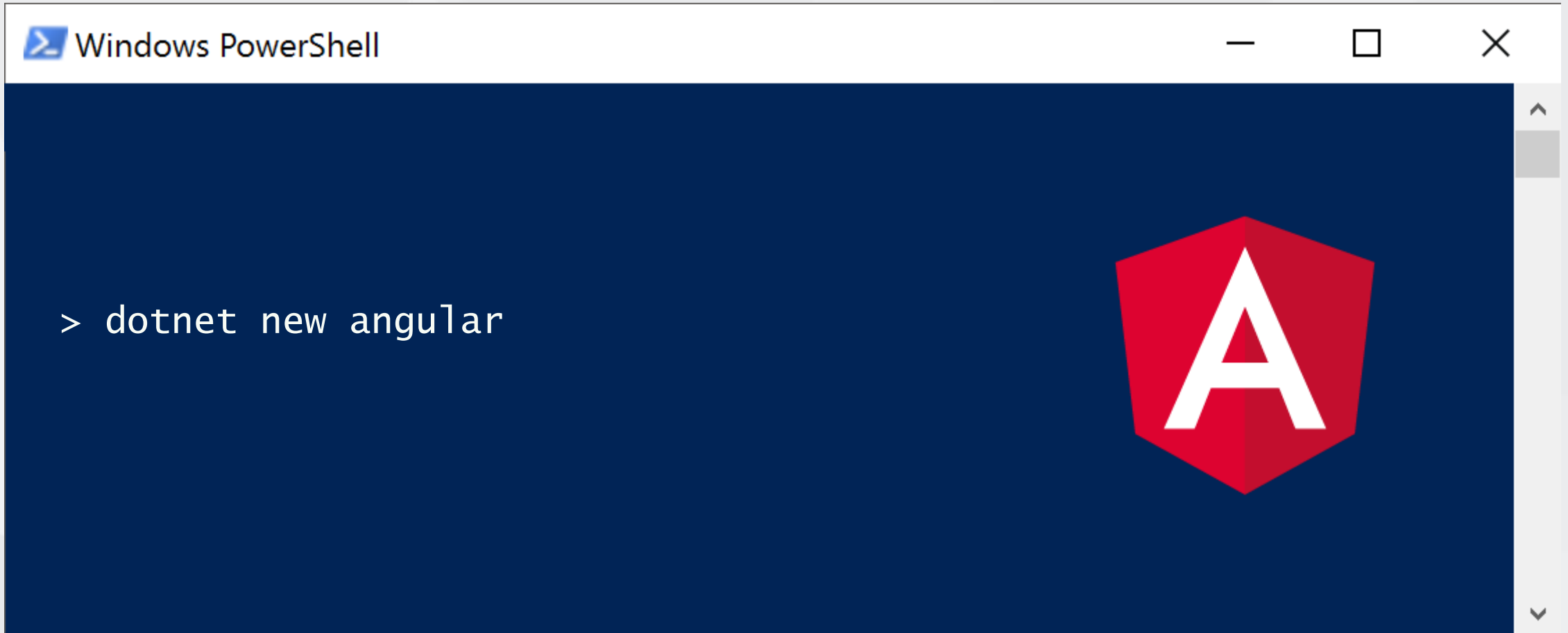
Templates                                     Short Name
-----
ASP.NET Core with Angular                    angular
ASP.NET Core with React.js                   react
ASP.NET Core with React.js and Redux         reactredux
```

Additional Templates

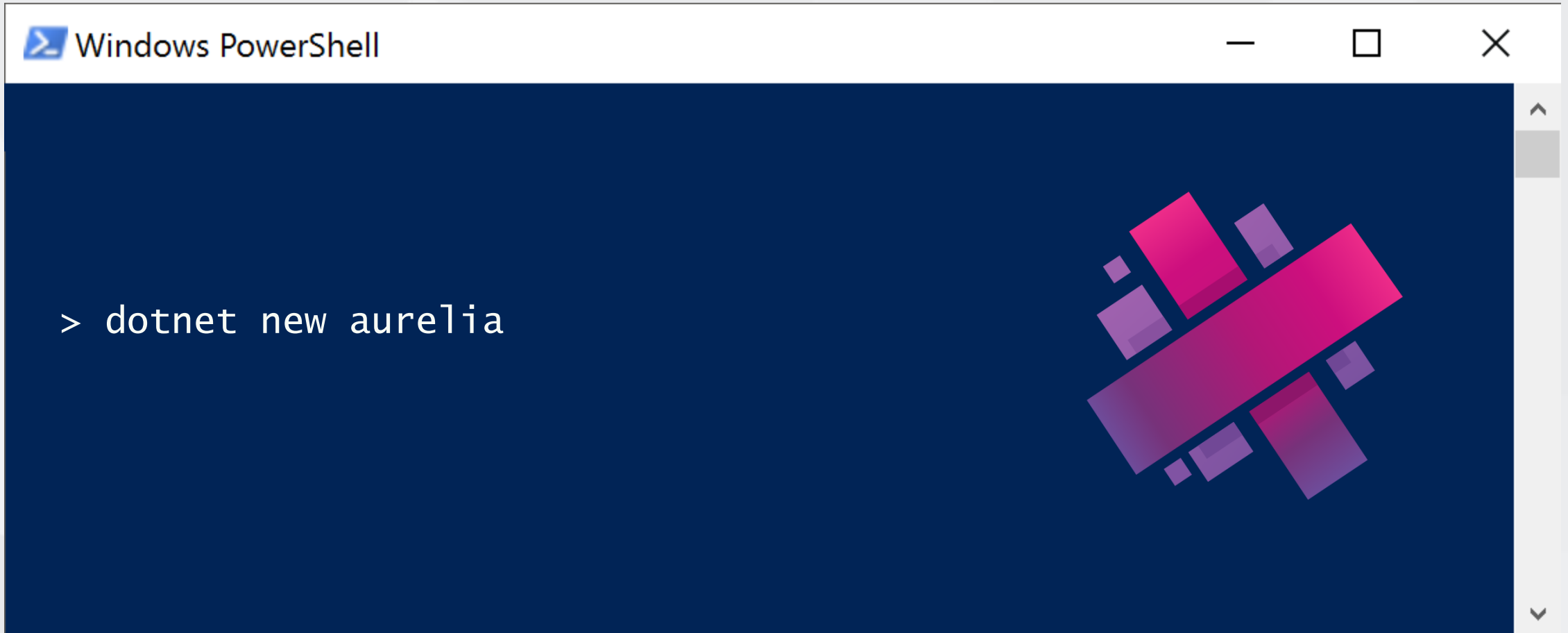
A screenshot of a Windows PowerShell terminal window. The title bar at the top reads "Windows PowerShell" with standard minimize, maximize, and close buttons on the right. The terminal has a dark blue background with white text. A single command is entered: `> dotnet new --install Microsoft.AspNetCore.SpaTemplates::*`. The command is preceded by a prompt character `>`.

```
> dotnet new --install Microsoft.AspNetCore.SpaTemplates::*
```


Angular + ASP.NET Core



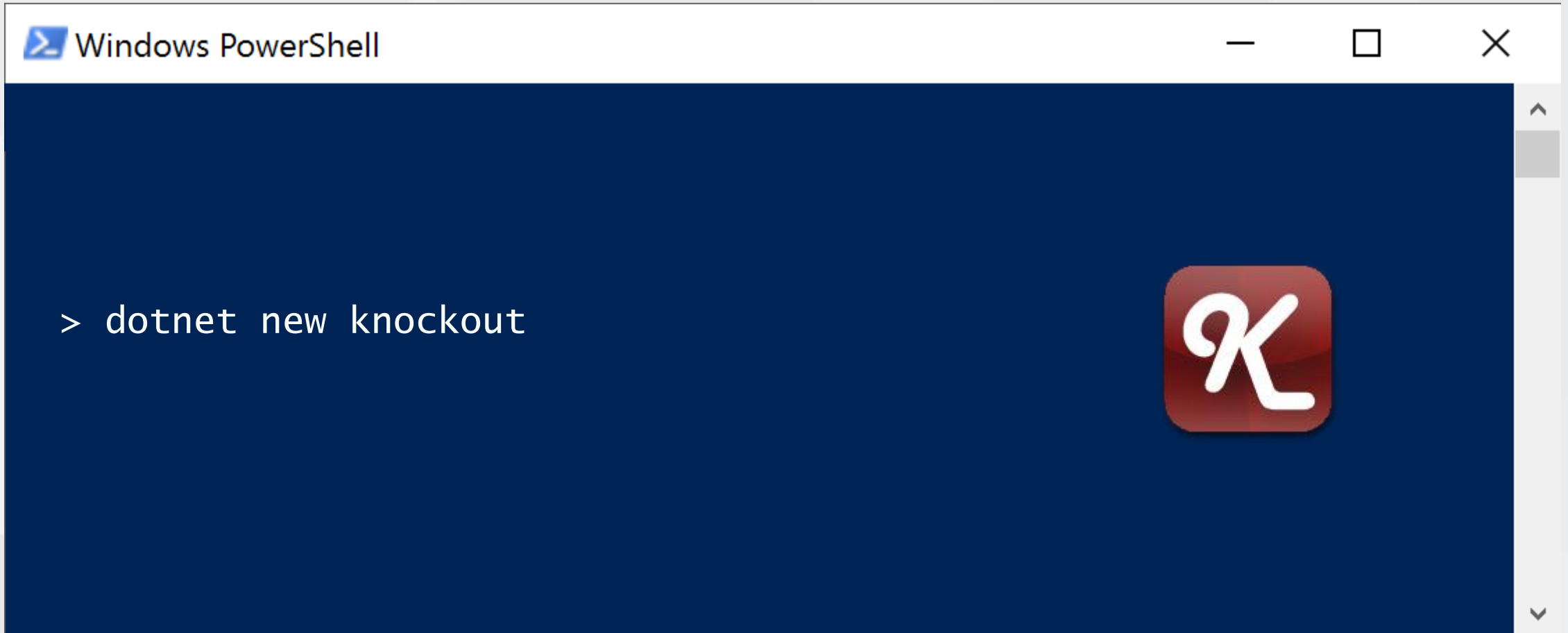
Aurelia + ASP.NET Core



A screenshot of a Windows PowerShell window. The title bar at the top reads "Windows PowerShell" and includes standard window controls (minimize, maximize, close). The main area has a dark blue background. On the left, the command `> dotnet new aurelia` is entered in white text. On the right, the Aurelia logo is displayed, consisting of several overlapping, semi-transparent squares in shades of pink and purple, arranged in a cluster.

```
> dotnet new aurelia
```

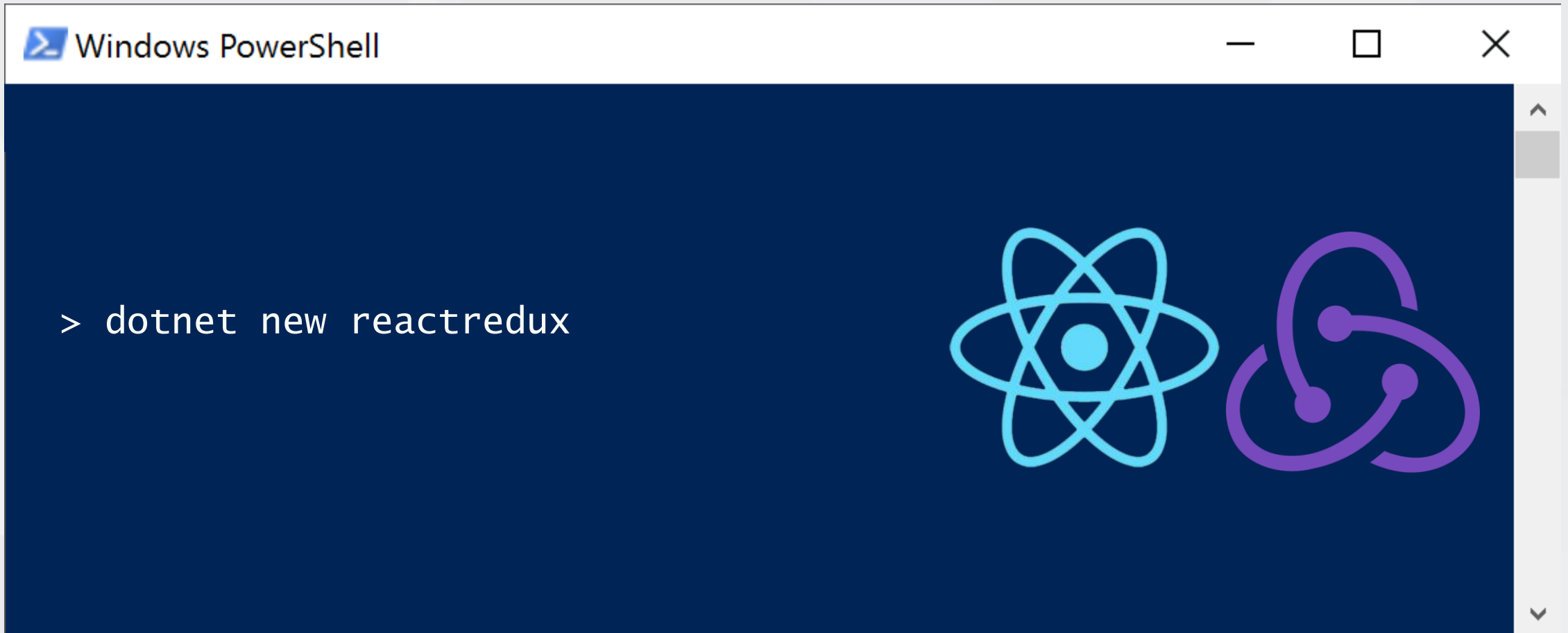
Knockout + ASP.NET Core



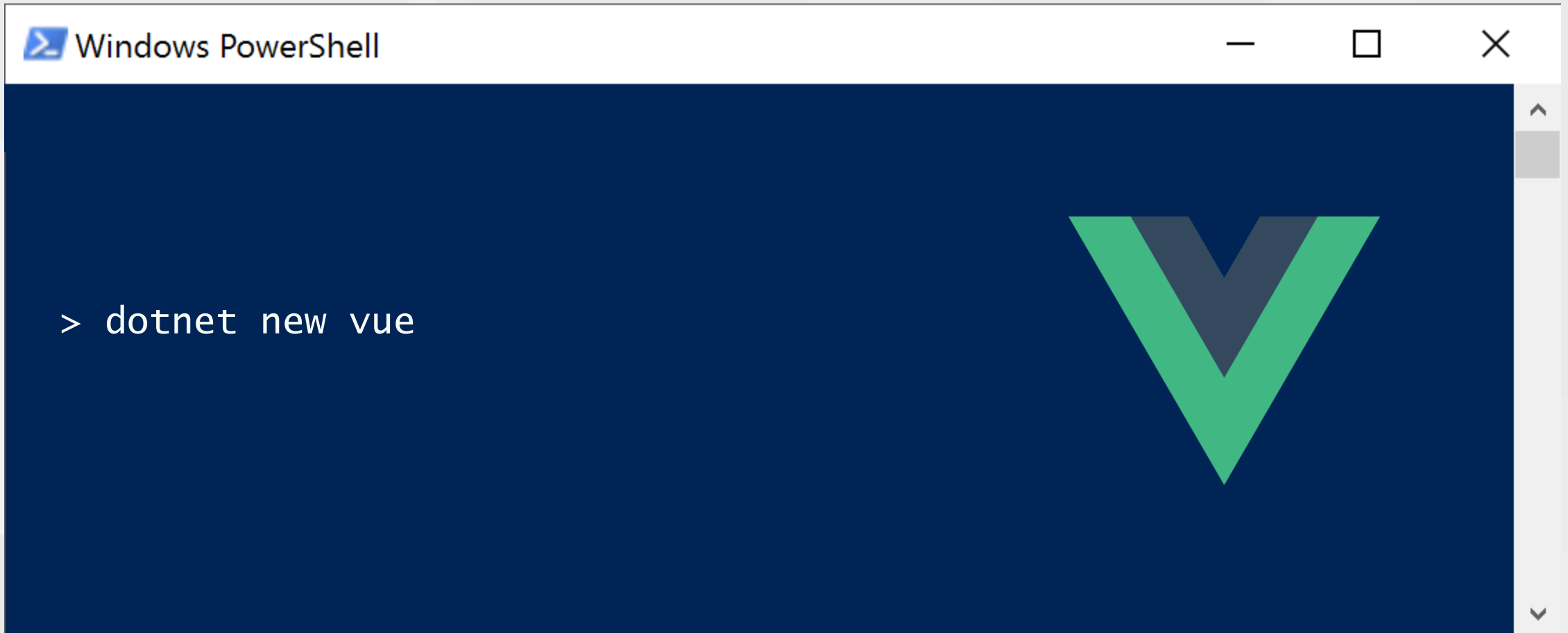
React + ASP.NET Core



React + Redux + ASP.NET Core



Vue + ASP.NET Core



Demo: Creating a SPA

Building single page applications with ASP.NET Core

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Demo: Building a Web API

Creating an awesome ASP.NET Core Web API

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Open API Specification (OAS)

Defines a standard interface description for Rest APIs

Allows humans to understand the capabilities of a service

Allows computers to generate documentation, code, clients and servers, and automate test cases

<https://github.com/OAI/OpenAPI-Specification>

Demo: Working with Open API

Create an Open API definition document

Using Swagger UI to interact with our Web API

Create a TypeScript client for our Web API

Agenda

Getting Started with SPA

Building a Web API

Using Open API

Next Steps

Next Steps

[Visual Studio 2017](#) (version 15.3 or greater)

or

[Visual Studio Code](#) (latest version)

[.NET Core SDK](#) (version 2.0 or greater)

[Node.js](#) (version 6 or greater)



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Copy path

JasonGT Update README.md

9dc7d29 on 16 Oct 2017

1 contributor

43 lines (30 sloc) | 1.12 KB

Raw

Blame

History



NorthwindTraders

Northwind Traders is a sample application built using ASP.NET Core and Entity Framework Core.

The initial purpose of this solution is to create a code first version of Northwind, using the .NET Core stack.

Getting Started

Northwind Traders – EF Core 2.0 - bit.ly/efcore-northwind

Use these instructions to get the project up and running.

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Jason Taylor

Jason is a passionate solution architect with over 16 years professional experience.

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

Melbourne – Thursday, 19th April 2018 - bit.ly/dotnet-tour

Thank you!

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