Angular 4.x and ASP.Net Core 1.1 In Visual Stu

Angular-CLI + Angular 4.x + ASP.Net Core 1.1 in Visual Studio 2017

This document was put together in early June 2017 as part of a research project to determine if/how Microsoft ASP.Net Core and Angular could be used together to create a more power of Angular 4.x with the power of Microsoft middleware (ASP.Net Core Web Application) without using all of the "heavier" pieces of Microsoft ASP.Net MVC 5.

Using ASP.Net Core instead of the full ASP.Net MVC allows the "middle" to exist on non-Windows servers.

The research started with an article written a long time ago and augmented with information that would allow someone to loosely follow the instructions in the original article, at was written near the end of March 2017 (yes, the tools change **that fast**).

The tools that I ended up using for this project were:

- NodeJS 7.10.0
- npm 5.0.3
- TypeScript 2.3.4
- Webpack 2.6.1
- Angular-CLI 1.1.0
- Angular 4.1.3
- Visual Studio 2017 Enterprise (fully patched with all 7 available patches at the time of this writing)

Original Article

The original article I used to get started is located at:

http://www.sparkhound.com/learn/blog/setting-up-an-asp-net-core-project-with-angular-2-utilizing-angular-cline angular angul

Changes I made since the article was first written

- 1. Before beginning the steps called for in the article, you must make sure you have installed Node/S and npm. I like to install Node/S into directory c:\node3S and put in fairly
- 2. I like to keep the packages used in an Angular application up-to-date; but, it is painful to do so manually.

Thankfully, if you install npm-check-updates , the task can be automated.

In fact, in one of the later steps below, I actually use that package, via its short name, ncu, so if you have not already installed it, install it globally now via a PowerShell or Cc

npm install -g npm-check-updates

- 3. After creating the new ASP.Net Core Web application called for in the original article, open it up in Visual Studio 2017.
- 4. Right-click on the project (not the Solution) and choose Manage NuGet Packages....
- 5. Use the *Update* tab to update the ASP.Net Core packages to the latest editions.
- 6. When creating the new Angular-CLI project in a temp directory, make sure you specify the following options
 - · --skip-git
 - --skip-install
 - · --routing

example

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2	In the original article, it has you open up file	angulan-cli icon	but that has changed to	angulan-cli icon	(notice the leading	neriod) You still need to change t	hic.

"outdir": "dist",

to this:

"outdir": "www.root",

13. In the original article, they do not have you modify file package.json to change the Angular-CLI build command, but I like to use cache busting and other compilation extras does not catch. Therefore, I recommend editing your package.json to change this:

```
"build": "ng build",
```

to this:

```
"build": "ng build -ec -vc --progress --prod",
```

- 14. If you decide to try out the bonus portion of the original article, one extremely important step that the original article fails to mention is the need to update file app.module
- Add the following import to the top of the file after the existing imports of BrowserModule and NgModule:

```
import { HttpModule } from '@angular/http';
```

• Add HttpModule to the imports: array:

```
imports: [
   BrowserModule,
   HttpModule,
   AppRoutingModule
],
```

15. The bonus section of the original article was written prior to the release of Angular-CLI 1.1.0, which puts a lot of additional HTML markup into file app. component.html, so who bonus section of the article, you should surround them in their own individual ">div>

- 16. (optional) Publish to Azure by:
 - 1. right-clicking on the project in Solution Explorer inside Visual Studio 2017.
 - 2. choose Publish
 - 3. Fill in the information based on your Azure subscription. Hint: for the url of the web site, I like to remove the numbers that the publishing tool offers as a suffix (to make as shown below:

http://fpmangularcliaspnetcore.azurewebsites.net