*Capital One Teach:* ***Angular 2/4*** *Richmond: Aug 1 - 4, 2017*

**Welcome to class!**

Please reach this document at [**http://moxie.pro/1aug2017ng**](http://moxie.pro/1aug2017ng)

**(note, lowercase, no WWW. Some find IE works best for them from Capital One connections) - cant connect? recheck - and ask! :)**

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**Please complete the steps below...**

**Table of contents**

[Course Software Setup](#_92hd7cor6g1l)

[Augury Plugin - add to Chrome we will discuss](#_6huq7u61e6iz)

[Need a Review of HTML, CSS, JavaScript?](#_hmdrvjw4myze)

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1. Please sign the roster on the desk by the doorway
2. Please use a dry erase marker to write your FIRST name on the name tent cards
3. please follow the steps below. Everyone MUST connect to a Protech Virtual machine.
   1. you can optionally set up your own machine for class AFTER you set up the ProTech machine

# Course Software Setup

1. First**,** [Review this slideshow](https://docs.google.com/presentation/d/1iq71UzqjLpTZfS1PVkhsXfJoVZNx7gEv3iHKxIu8TXU/pub?start=false&loop=false&delayms=3000) on how to connect
   * NOTE: take note of how to make browser full screen for virtual machine to be easier to use, and how bring up left side menu. (ctrl alt, shift)
2. [Click here](https://docs.google.com/spreadsheets/d/1y4hkx_Ne_Zz49Kjdwb0tNvIPnN7CMkc_iTjJcWhiQR4/edit#gid=377103537) to find your name and assigned machine
   * + try to login following steps in slideshow above
       - Connect to [http://labs.protechtraining.com](http://labs.protechtraining.com/)
     + Once you have connected successfully, update the connected column to Yes
     + Later in Optional steps you might update to S
3. From Protech remote desktop, click on **Git Lab files.bat** to execute
4. Navigate to C:\AngularAppDevCourseCode in command prompt
   * OpenHInt: if using Windows Explorer, can shift and right-click to open command prompt
5. Run **npm install** from C:\AngularAppDevCourseCode
6. Then after it completes, run the command **node setup**

**At this point, please put your name tent card up in a vertical direction.**

**OPTIONAL**: If you choose to use your own dev machine, and have admin access, and know how to work with proxies… (No support from me, I do not have access to proxy/setup info - but well wishes!)

* + Node 6.9+ and NPM 3.10
  + git clone or download <https://github.com/DanWahlin/AngularAppDevCourseCode>

1. Once you have cloned Dan’s project
   * run **npm install** in the root directory
   * then after it completes, **npm run setup**
2. Install Visual Studio code and add it to your system path to launch VS Code from terminal/command prompt: <https://code.visualstudio.com/docs/editor/command-line>

1. Augury **Plugin** - add to Chrome we will discuss

<https://chrome.google.com/webstore/detail/augury/elgalmkoelokbchhkhacckoklkejnhcd?hl=en-US>

1. Need a Review of HTML, CSS, JavaScript?

* [HTML, CSS and JS tutorials W3schools](http://www.w3schools.com/html/default.asp)
* MDN - [Mozilla Developer Network](https://developer.mozilla.org/en-US/)

Day 1 Review: <https://docs.google.com/presentation/d/1PfftyB1QIrJngEJ7TaCUxgC5Np1iJ9YghFytAu1X_FI/pub?start=false&loop=false&delayms=3000>

NgModule FAQ <https://angular.io/guide/ngmodule-faq>

Discussion Points:

* More on Pipes, including examples using in Components - [link](http://www.angulartutorial.net/2017/04/date-filtering-and-formatting-using.html)
* Dan vs. John Papa - Using I for Interface
* JSON-server for fake backend <https://www.npmjs.com/package/json-server>
* WireMock
  + supports XML, and proxy
* MounteBank
  + <http://www.mbtest.org/>
* RXJS: <https://www.npmjs.com/package/rxjs>
* Reactive Extensions for JS documentation: <https://rxjs.codeplex.com/>
* GitHUb ReactiveX: <https://github.com/reactivex/rxjs>
* RX book: <http://www.introtorx.com/>
* Change Detection:
* Mine Sweeper example <https://www.jvandemo.com/how-i-optimized-minesweeper-using-angular-2-and-immutable-js-to-make-it-insanely-fast/>
* <https://blog.thoughtram.io/angular/2016/02/22/angular-2-change-detection-explained.html>
* <https://dzone.com/articles/how-does-angular-2-change-detection-really-work-1>
* More advanced Observables
  + <https://scotch.io/tutorials/angular-2-http-requests-with-observables>
  + <https://blog.thoughtram.io/angular/2016/01/06/taking-advantage-of-observables-in-angular2.html>
  + <https://blog.thoughtram.io/angular/2016/01/06/taking-advantage-of-observables-in-angular2.html>
  + <http://blog.angular-university.io/how-to-build-angular2-apps-using-rxjs-observable-data-services-pitfalls-to-avoid/>
  + Async pipe to use Observables directly in \*ngFor
    - <http://briantroncone.com/?p=623>
* Repo of many Angular 2+ resources: <https://github.com/AngularClass/awesome-angular>
* CoreModule.forRoot
  + <https://angular.io/guide/ngmodule#configure-core-services-with-coremoduleforroot>
* Preventing Re-Import of Core Module:
  + <https://angular.io/guide/ngmodule#prevent-reimport-of-the-coremodule>
* Unit Testing
  + mocha/chai <https://github.com/arranbartish/angular-cli-seed>

Want More?:

<https://danwahlin.github.io/AngularWorkshopLabs/>

Non-Tech Conversation:

* [Oils](http://mydoterra.com/karmoxie)
* Couchsurfing - travel the world and meet new people - stay at their homes for free!