Setup for Angular Classes

Infrastructure

- Projector connectable to the instructor's laptop
- · Whiteboard and/or flipcharts for lectures
- A connection to the Internet

Hardware

One computer for every two students with at least 1Gb of free disk space

Security needs

- Authorization to download a zip file from http://github.com or read it from a USB thumb drive and to extract the files.
- Authorization to run "npm install" to pull files from the npm repository. Note that this is not the traditional install, but is a lower-risk way of downloading JavaScript files into a local folder.

Software

One or more modern browsers		
Examples: Google Chrome, Firefox, Edge, Opera, and Safari. Multiple browsers will allow the student to experience browser differences.		
Versions	Any - latest is preferred	
Sources	http://google.com/chrome	
	http://mozilla.org/firefox	
	http://microsoft.com/edge	
Validation	Open any of those browsers and browse to any site. If you can see	
steps	the site, it is installed properly.	

A text e	ditor	
One with JavaScript syntax highlighting and code completion would be best.		
Visual Studio Code is preferred. Atom, Brackets, and WebStorm are acceptable.		
Versions	 Visual Studio Code 1.16 or better 	
Sources	 http://code.visualstudio.com 	
	http://atom.io	
	 http://brackets.io 	
	 http://jetbrains.com/webstorm 	
Validation steps	If the editor opens, it is installed properly.	

Bash shell

This comes standard on all Apple and Linux machines. It is an extra install on

Windows. The most popular way to install on Windows is through Git-forwindows		
Version	2.13 or better	
Source	https://git-for-windows.github.io/	
Installation	Click the download button. Choose your preferred installer,	
instructions	probably Git-X.X.X-32-bit.exe or Git-X.X.X-64.exe. Once it	
	downloads, run the executable and follow the installer's	
	instructions.	
Validation	Hit the Windows button.	
steps	In the search box, type "bash". You should see "Git Bash".	
	3. Click it.	
	A command window will come up. Type in	
	bashversion	
	If you see a version number, it is installed properly.	

node and npm		
Both of these tools are installed together as part of the same package. node is needed to create a local web server and run project setup scripts. npm is needed to download and configure JavaScript libraries.		
Versions	node 6.9 or highernpm 3 or higher	
Source	http://nodejs.org/download	
Installation instructions	The download page give you a choice between LTS and Current. Either is fine. LTS is preferred. Download the installer and follow the instructions provided.	
Validation steps	 Open a bash window and type in nodeversion If you see a version number, node is installed properly. Type in npmversion If you see a version number, npm is installed properly. 	
Troubleshooting notes		

The Angula	r CLI	
This database server will allow us to better simulate real-world problems and solutions by working with data.		
Version	1.0 or higher	
Installation instructions	1. Open a command line window and type in npm installglobal @angular/cli	
Validation steps	 Open a new bash window and type in 	
	ngversion	
	If you see version 1.0 or higher, it is installed properly	

Troubleshooting	If the command is not found, you may need to add the install
notes	directory to the PATH. For Windows, it is %APP_DATA%\npm
	and for Unix (including MacOS), it is /usr/local/bin.

MongoDB		
This database server will allow us to better simulate real-world problems and		
solutions by work		
Versions	• 3.2 or higher	
Sources	https://www.mongodb.com/download-center#community	
Installation	You will have a choice of the level. Choose "Community	
instructions	Edition". You may have a choice between LTS and Current. Either is fine. LTS is preferred.	
	 Download the installer and choose to run it. 	
	Follow the instructions in the installer.	
	Create a directory called "C:\data\db" (/data/db on Mac/Linux).	
	 Add mongo's bin directory to the path. If you don't know how to that, here's a video: http://bit.ly/addmongotopath 	
Validation steps	Open a new bash window with the authority of a normal	
	user	
	2. Type in	
	mongod	
	3. You'll see several messages. One of the last ones says	
	that mongo is listening on a port, usually 27017.	
	4. Leave that window running as-is.	
	5. Open another new bash window.	
	6. Type in mongo	
	7. You'll see a command prompt. Type in	
	show dbs	
	You should see a database called "local"	
	9. Type in	
	use local	
	10. Type in show collections	
	11. You should see a collection called "startup_log" in the	
	list	
	12. Type in	
	db.startup_log.find()	
	13. If you see any output other than an error message, MongoDB is installed properly.	
Troubleshooting	If the command is not found, you may need to add the node	
notes	directory to the PATH. For Windows, it is %PROGRAM	
	FILES%\mongo and for Unix (including MacOS), it is	
	/usr/local/bin.	
	If you get errors about permissions when trying to run mongod,	
	it could be that the permissions are set wrong on the data	

directory. To solve that, try running mongod as an administrator.