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 windows	ne most popular way to install on Windows is through Git-for-
Version	2.13 or better
Source	 https://git-for-windows.github.io/
Installation instructions	Click the download button. Choose your preferred installer, 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 steps	 Hit the Windows button. In the search box, type "bash". You should see "Git Bash". 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.

to download and configure JavaScript libraries.		
Versions	 node 6.9 or higher 	
	npm 3 or higher	
Sources	 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. 	

The Angular 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... instructions 1. Open a command line prompt and type in steps 1. Open a command line prompt and type in steps 2. If you see version 1.0 or higher, it is installed properly

MongoDB

This database server will allow us to better simulate real-world problems and solutions by working with data.		
Versions	node 4 or higher	
	npm 3 or higher	
Sources	https://www.mongodb.com/download-center#community	
Installation	You will have a choice of the level. Choose "Community Edition".	
	•	
instructions	J	
	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).	
	4. 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	Open a bash window with the authority of a normal user	
steps	2. Type in	
Clope	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 a new bash window.	
	6. Type in	
	mongo	
	7. You'll see a command prompt. Type in	
	show dbs	
	8. 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	
	<pre>db.startup_log.find()</pre>	
	13. If you see any output other than an error message,	
	MongoDB is installed properly.	