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 steps	Open any of those browsers and browse to any site. If you can see the site, it is installed properly.	

A text ed	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 1.18 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	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 no	om	
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 new 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		

r CLI		
This database server will allow us to better simulate real-world problems and solutions by working with data.		
1.5 or higher		
1. Open a command line window and type in npm installglobal @angular/cli		
 Open a new bash window and type in 		
ngversion 2. If you see the version 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 se solutions by work	rver will allow us to better simulate real-world problems and sing with data.
Versions	3.2 or higher
Sources	https://www.mongodb.com/download-center#community
Installation instructions	You will have a choice of the level. Choose "Community Edition". You may have a choice between LTS and Current. Either is fine. LTS is preferred. 1. Download the installer and choose to run it. 2. Follow the instructions in the installer. 3. As a regular user (not an admin), 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 steps	 Open a new bash window with the authority of a normal user 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 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 db.startup_log.find() 13. If you see any output other than an error message, MongoDB is installed properly.
Troubleshooting notes	If the command is not found, you may need to add the node 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.