Setup for Angular Classes

Infrastructure

- Projector connectable to the instructor's laptop
- · Whiteboard 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.
- 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/chromehttp://mozilla.org/firefoxhttp://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 editor			
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 1.25 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-for-

windows	
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.		
Versions	node 8.9 or higher (As of Angular 6)npm 5.2 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	If the command is not found, you may need to add the node directory to the PATH. For Windows, it is %PROGRAM FILES%\nodejs and for Unix (including MacOS), it is /usr/local/bin. These links may help you to set the PATH: http://bit.ly/Windows10Path & http://bit.ly/MacOSPath	

The Angular CLI		
This tool allows us to create applications and run them in development mode.		
Version	 1.7.4 or higher (As of Angular 6) 	
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 version 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%\ng
	and for Unix (including MacOS), it is /usr/local/bin. These links
	may help you to set the PATH: http://bit.ly/Windows10Path &
	http://bit.ly/MacOSPath

	nttp://bit.iy/iviacOSPath
MongoDB	
	erver 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.
	2. Follow the instructions in the installer. But on the 3 rd
	screen uncheck "Install MongoDB Compass".
	 As a regular user (<u>not</u> 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
validation stops	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
	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	 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.
- If the install just fails with no explanation, try disabling your anti-virus/firewall software during install.