**Angular Workshop Setup Instructions**

**Following are the steps for installation of Angular related software on Windows systems.**

Please read the complete instructions and **follow exactly as per the instruction and install exactly in the mentioned folders.**

**Note:    <Drive>:  mentioned below is C: or D: or E: or F: etc. wherever space is available for installation.**

1. Install Node.js v8.11.4 - 32 Bit or 64 Bit depending on your system type. **Admin privilege is required.**
   1. <https://nodejs.org/dist/v8.11.4/node-v8.11.4-x86.msi> [ 32 Bit Installer ]

**(OR)**

* 1. <https://nodejs.org/dist/v8.11.4/node-v8.11.4-x64.msi> [ 64 Bit Installer ]

1. You can use editors like Microsoft Visual Studio Code [ <https://code.visualstudio.com> ] or Atom Editor [ <https://atom.io/> ]. For Angular workshop, Microsoft Visual Studio Code is preferable, as it has got good support for TypeScript.
2. Install **Google Chrome**. (Preferred one, though you can use other browsers).
3. Create a folder **“fullstack”** under **<Drive>:\.** Let us call this path as **<FS\_PATH>**
4. Create a folder **angular\_ws** under **<FS\_PATH>**
5. Goto “**Node.js command prompt**” **[ Administrator Mode ]**. (**Use  the shortcut** present under the “Node.js” traversed through “Start | All Programs”.
   1. Change directory to **<FS\_PATH>\angular\_ws**
6. Install the latest version of npm if you have very old version. As on August 31, 2018, the latest version of npm is **6.4**.1.
   1. To check npm version, the command is **npm –v**
   2. To install the latest version of npm, the command is **npm install –g npm**
7. **IMPORTANT NOTE:** This step is required only if you are installing behind Wipro proxy. **Otherwise, do not issue the below commands.**

If behind Wipro proxy, Configuring proxy for node.js is important using npm config. Only if **proxy** is configured, “npm  install” will work properly.

* **npm config set proxy**[**http://ADUserID:ADpassword@proxyname:port**](http://ADUserID:ADpassword@proxyname:port)
* **npm config set https-proxy**[**http://ADUserID:ADpassword@proxyname:port**](http://LDAP-ADUserID:LDAP-ADpassword@proxyname:port)
* **IMPORTANT (OPTIONAL STEP – NOT A REGULAR ONE) :** In case, you have already set the proxy config wrongly and want to run the remaining commands from Direct Connection to Internet, then to delete the proxy configuration, execute the following commands.
  + **npm config delete proxy**
  + **npm config delete https-proxy**

1. **Ensure** you are in the directory **<FS\_PATH>\angular\_ws** in Node.js command prompt **[Administrator Mode]**.

Run the following commands

[**Note:** Do not copy paste the command from this Word document. Type the command manually].

npm cache clean [ **Preferred** Optional Step -> To do a clean npm install ].

[ To forcibly delete, you can use the option **--force** ]

npm install –g @angular/cli

ng new demo-app

1. After the “demo-app” project has been created,
   1. In “**Node.js command prompt**”, change directory to **<FS\_PATH>\angular\_ws\demo-app**
   2. To try out demo application, run using the command **ng serve –o**
2. **Optional:** Creating “app.zip” – Take a backup of the “app” folder present in **<FS\_PATH>\angular\_ws\demo-app\src** and store it safely so that you can use it as a starting point for any demo code you try.
3. All the files you create during the hands-on demo will be in **app** **or its sub-folders**.
4. For one of the demo which involves http requests, install json-server so that http requests could be served.

npm install –g json-server