**Node.js, Express.js Workshop Setup Instructions**

**Following are the steps for installation of Node.js, Express.js 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 v6.11.3 - 32 Bit or 64 Bit depending on your system type. **Admin privilege is required.**
   1. <https://nodejs.org/dist/v6.11.3/node-v6.11.3-x86.msi> [ 32 Bit Installer ]

**(OR)**

* 1. <https://nodejs.org/dist/v6.11.3/node-v6.11.3-x64.msi> [ 64 Bit Installer ]

1. You can use editors like Atom Editor [ <https://atom.io/> ] or Microsoft Visual Studio Code [ <https://code.visualstudio.com> ]
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 **node\_ws** under **<FS\_PATH>**
5. Create a directory “**code**” under **<FS\_PATH>\nodejs\_ws. [**During the Webex session on **Node.js**, while trying out each concept, you can create a separate sub-folder under **“code”** to try out each concept.]
6. Goto “**Node.js command prompt**”. (**Use  the shortcut** present under the “Node.js” traversed through “Start | All Programs”.
   1. Change directory to **<FS\_PATH>\nodejs\_ws**
7. **IMPORTANT NOTE:** This step is required only if you are installing behind proxy. **Otherwise, do not issue the below commands.**

**If behind 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. Create a folder **expressjs\_ws** under **<FS\_PATH>**
2. Goto “**Node.js command prompt”.**
   1. Change directory to **<FS\_PATH>\expressjs\_ws**
3. Run the following commands

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

**npm install -g express**

**npm install -g** [**express-generator@4.15.0**](mailto:express-generator@4.15.0)

**// NOTE : EXPRESS generator is a tool to create EXPRESS projects and EXPRESS is a framework (ANGULAR CLI and ANGULAR)**

**npm install -g nodemon**

// Nodemon is utility that monitor for changes in source and automatically restart your server

**express demoPROJ**

// New Project created

1. **Change directory** to **<FS\_PATH>\expressjs\_ws\demoPROJ**

**npm install**

// **npm install** will install all modules listed as dependencies in [**package.json**](https://docs.npmjs.com/files/package.json)

**npm install --save** [**express-session@1.15.5**](mailto:express-session@1.15.5)

// **To add package in dependencies**

**npm audit fix**

// to fix any vulnerabilities

1. During the Webex session on **Express.js**, while trying out each concept, you can create a separate sub-folder under **“demo”** to try out each concept.

**Steps to check if the installation is proper**

1. Goto “**Node.js command prompt”.**
   1. Change directory to **<FS\_PATH>\expressjs\_ws\demo**
2. Run **“npm start”**
3. Open Google Chrome
4. Type the URL <http://localhost:3000>
5. It should display “**Express**   Welcome to Express”.