**Steps for angular environment setup using Yeoman, Grunt and Bower**

*Reference link -* [*http://www.sitepoint.com/kickstart-your-angularjs-development-with-yeoman-grunt-and-bower/*](http://www.sitepoint.com/kickstart-your-angularjs-development-with-yeoman-grunt-and-bower/) *Note – Install all the software’s and other required files with respect to your 32 or 64 bit system*

1. Create a **workspace directory** at any location you want. Run all the commands that we will come through while keeping the path in CMD to this workspace directory you just created.
2. **NODE.JS** - Install node.js on the system, you can find the downloader package at this link [*Click\_Me*](https://nodejs.org/download/)
   1. Download windows installer(.msi) package
   2. During installation choose node package manager option npm
   3. After completion of installation open cmd and type ‘**node –v**’ it shall give the installed version as output, then type ‘**npm –v**’ even this shall give installed npm version as output, if so then installation has been done correctly.
3. Now we set npm related proxies, in cmd type these two commands, either type (a,b) or (c,d) command those are two different proxies
   1. npm config set proxy http://user-name:password@10.74.91.103:80
   2. npm config set https-proxy http://user-name:password@10.74.91.103:80
   3. npm config set proxy http://user-name:password@puninetpxy.ad.infosys.com:80
   4. npm config set https-proxy http://user-name:password@puninetpxy.ad.infosys.com:80
   5. npm config set strict --ssl  false
4. Now let’s install bower, grunt and yo common libraries using cmd, ‘**npm install -g yo grunt-cli bower**’
   1. In cmd type, ‘**bower –v**’ , ‘**grunt**’, ‘**yo**’ if all three commands run properly then installation is successful
5. **RUBY –** now let’s download and install ruby using this link [*Click\_Me*](http://rubyinstaller.org/downloads/), download ruby 2.2.2.exe or any version available, do not download the zip file available
   1. During installation choose all 3 options specified
   2. Let the installation happen in default directory specified
6. **YEOMAN –** Lets install yeoman features and create scaffolding of our app using some commands in cmd
   1. go to the workspace folder we created in step 1 using cmd
   2. now type, ‘**npm install -g generator-angular**’
   3. next command, ‘**yo angular**’, say yes for all the questions yo asks and select ngResource as well as ngRoute from angular support files list (use spacebar for selection/deselection)
7. These are proxy settings for bower
   1. Put these commands for setting bower proxy
   2. In cmd, go to path c:\users\user\_name\ and type ‘**echo “” > .bowerrc**’
   3. Now open that .bowerrc file and put this code into it

{

    "directory": "app/bower\_components",

    "registry": "http://bower.herokuapp.com",

    "proxy":"http://user-name:password@10.74.91.103:80",

    "https-proxy":"http://user-name:password@10.74.91.103:80",

    "strict-ssl": false

}

1. **BOWER** - Now open .bowerrc file generated in the workspace folder we created and add this line into it

"json": "bower.json" // Add this line separated by ,

1. **GIT INSTALLATION-**
   1. Download Git client using this link [*Click\_Me*](https://git-scm.com/download/win)
   2. During installation let all the settings be set as default
   3. Note the directory where it is getting installed
   4. Now go to the directory where it gets installed and go to this folder ~root/etc/.gitconfig, open this file and include below lines

*[http] proxy = http://10.74.91.103:80*

*[https] proxy = http://10.74.91.103:80*

* 1. If you are unable to save the above settings directly in file then type the below two commands in cmd
     1. *git config --global http.proxy http://10.74.91.103:80*
     2. *git config --global https.proxy http://10.74.91.103:80*
  2. Now go to cmd and type this

*set PATH=%PATH%;root\_directory\_for\_git\bin;*

*example - set PATH=%PATH%;C:\Program Files (x86)\Git\bin;*

*\*If any time you get an error called ‘git not installed or not in the Path’ then set the path as shown above*

1. **BOOTSTRAP JS INTO ANGULAR**
   1. Type this in cmd, ‘**bower install angular-bootstrap –save**’
2. **COMPASS AND SASS-**
   1. In cmd, ‘**bower install compass**’ and ‘**bower install sass**’
   2. If above command gives some error, then try installing sass and compass manually as below
      1. Go to <https://rubygems.org> and search for compass
      2. Open latest compass version link available at top
      3. At the right bottom of screen above the footer you will see a **Download** link, click on it to download the respective compass.gem file
      4. On same page at top you will find heading called **Runtime Dependencies**
      5. Download all of them and also download runtime dependencies found on their respective pages
      6. Do not download development dependencies, only runtime dependencies needs to be downloaded
      7. Now go to cmd and type, ‘**gem install --local path\_to\_gem**’**,** order for installation of gems should be- (download gems based on 32/64 bit system)
         1. Sass
         2. Chunky\_png
         3. Rb-fsevent
         4. Compass-import-once
         5. Multi\_json
         6. Compass-core
         7. Bundler (*search it separately and download it*)
         8. Ffi (*if latest version gives error then download a little older version and try*)
         9. Rb-inotify
         10. Compass
3. **GRUNT-**
   1. Now let us execute the code using, ‘**grunt serve**’
   2. Eureka, we did it if no errors are found during execution process and page loads smoothly
   3. if you get ‘*cannot find where you keep your bower packages*’ error then type this in cmd, ‘**bower install**’ in your workspace folder
4. **GIT REPOSITORY SETUP-**
   1. Go to [www.github.com](http://www.github.com) and sign-up and login
   2. Now create a repository on github.com, this will be your remote repository which will be available for everyone, copy the https URL of this remote repository
   3. Now in your local machine, go to the workspace directory and right click on it and select ‘**Git Gui**’, Git Gui user interface will be opened
   4. Now again right click on same folder and select ‘**Git Add all files now**’, if this option is not available then select, ‘**Git Init Here**’ and then select ‘**Git Add all files now**’
   5. In the menu bar go to, **Remote > Add** and put the name of your local repository and in location place the remote repository’s URL that we copied in point (b) and select ‘**fetch immediately**’ option. Click on Add button, this should connect your local repository with remote repository
   6. In bottom half of UI select ‘**Stage Changed**’ to ready the changed files to be sent to remote repository
   7. Now select ‘**Commit**’ and insert a commit message like version\_number etc
   8. Finally choose ‘**Push**’ option to send the files to remote repository. Here a dialog box opens, there choose **Remote** as your destination repository and click on Push button
   9. That’s all done, go to your github remote repository, refresh the page to see the files been already been added in your remote repository