Getting started with NodeJS, NPM, Bower, Grunt and Gulp

Step 1: Install NodeJS and NPM

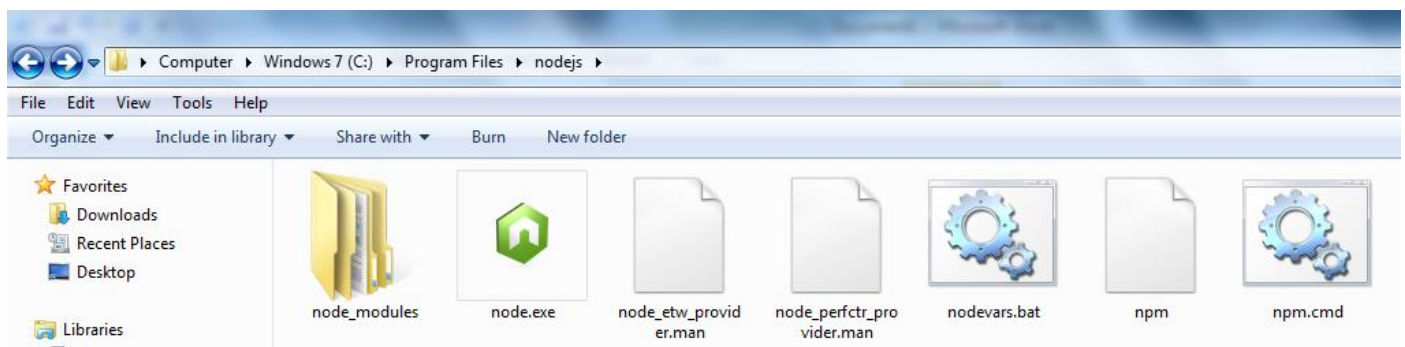Install NodeJS using .exe installer file for Windows.

It will get installed to this path "C:\Program Files\nodejs".

Make sure "C:\Program Files\nodejs\" and "C:\Users\Sonu\AppData\Roaming\npm" is added to path in environment variable.
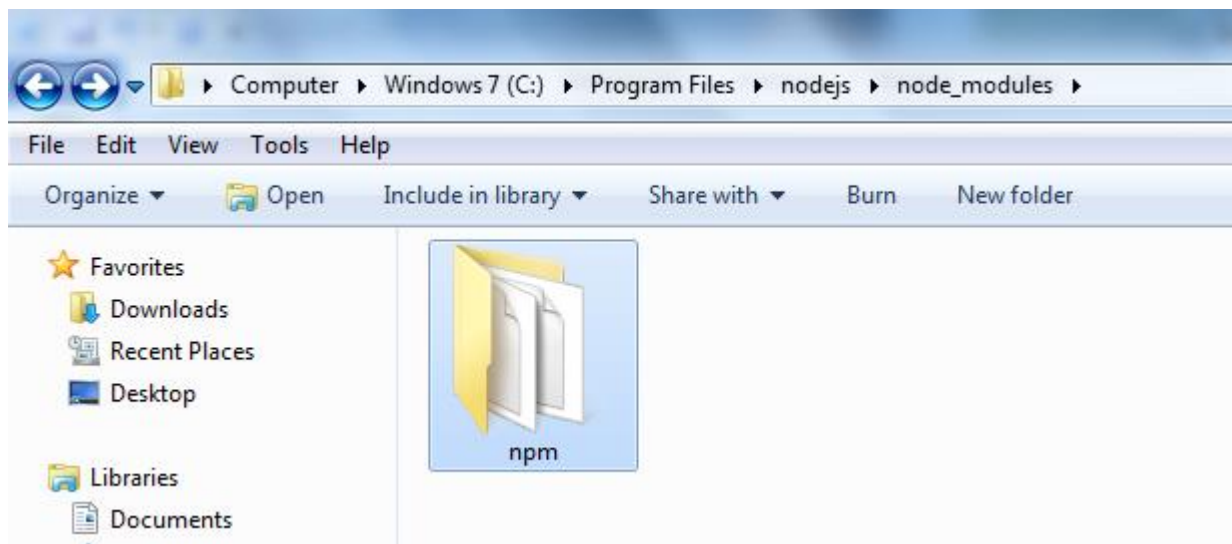
Run "node -v" and "npm -v" to check node and npm version.

NPM gets installed while installing node.

Following is the directory structure where NodeJS is installed.

As npm come pre-installed with node, it can be found at below location:

Also directory npm is created at "C:\Users\Sonu\AppData\Roaming" as shown in image on next page.

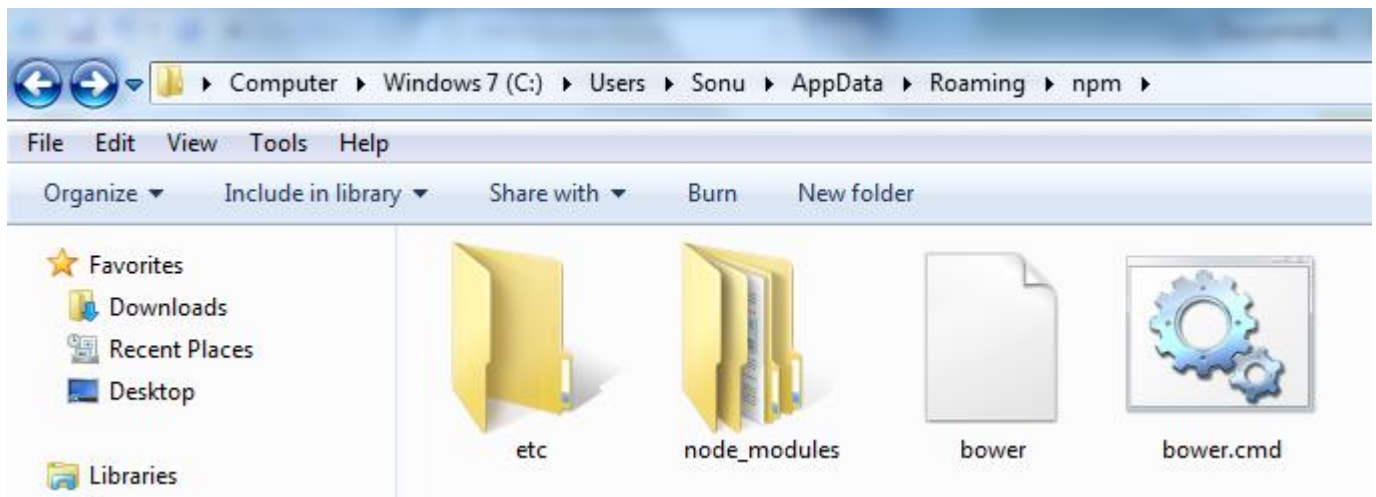It will be used to contain globally installed package which will be required by multiple projects.

Step 2: Install Bower Globally

Run command "npm install bower –g"

It will get installed at "C:\Users\Sonu\AppData\Roaming\npm".

Run "bower -v" to check bower version.

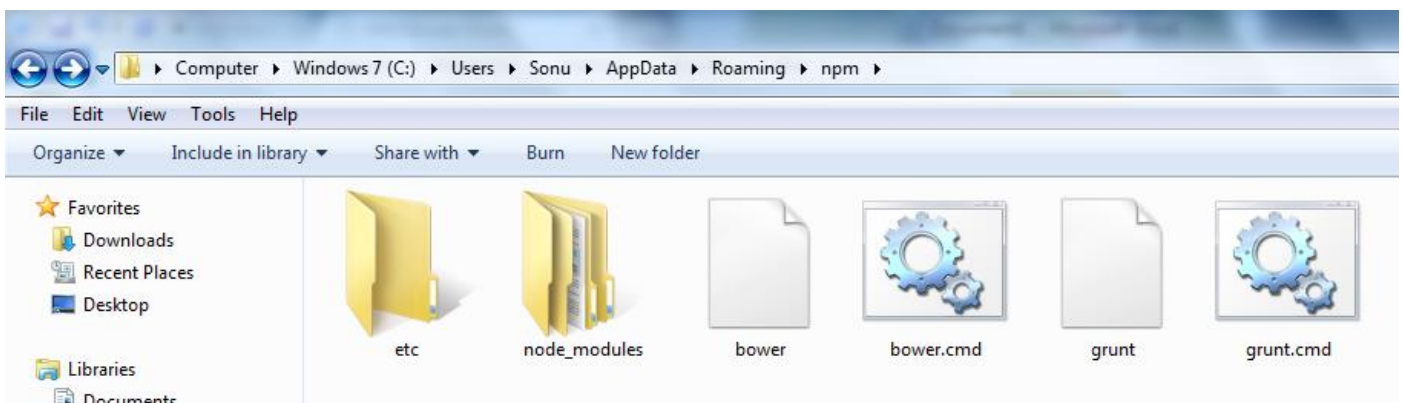Following is the directory structure where Bower is installed.

Step 3a: Install Grunt Globally

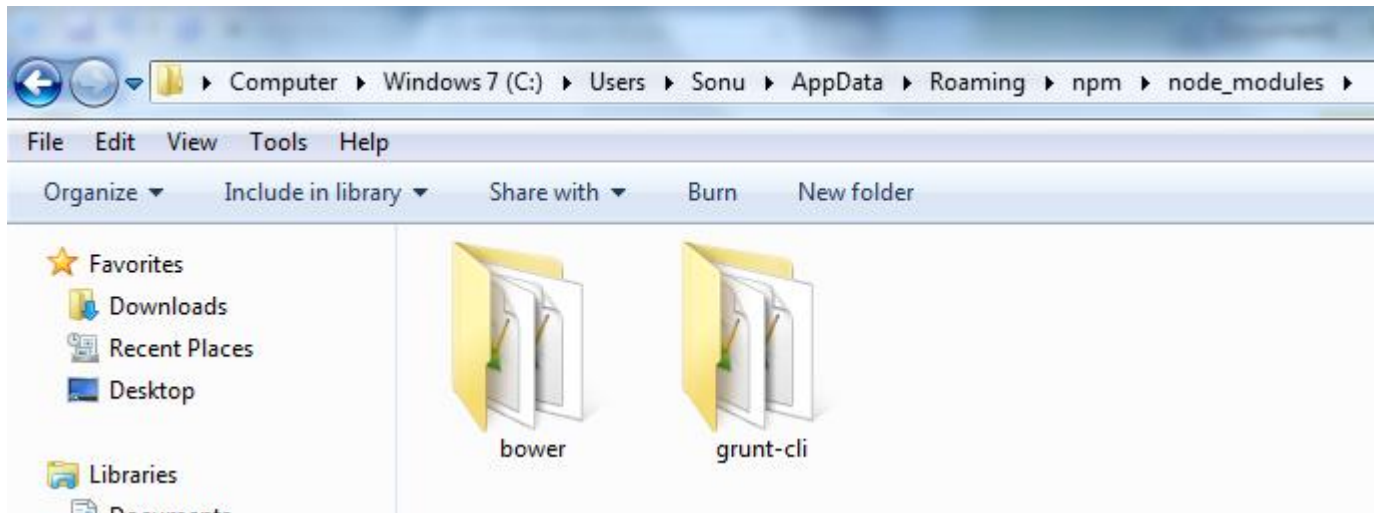In order to run grunt you need to install grunt-cli globally.

Run command "npm install grunt-cli –g"

It will get installed at "C:\Users\Sonu\AppData\Roaming\npm".

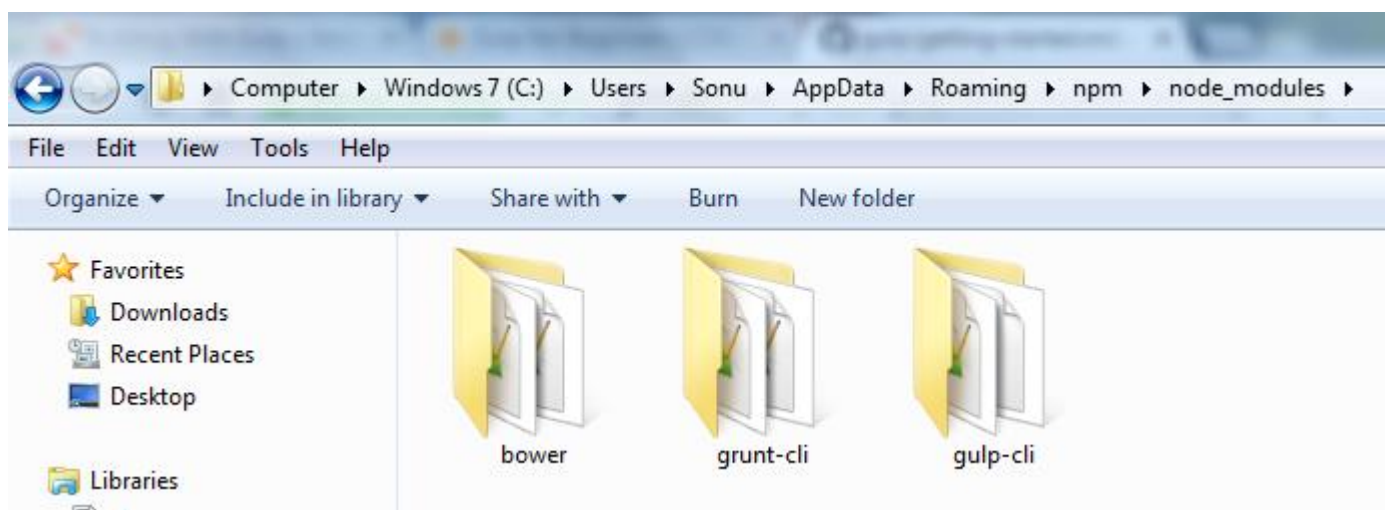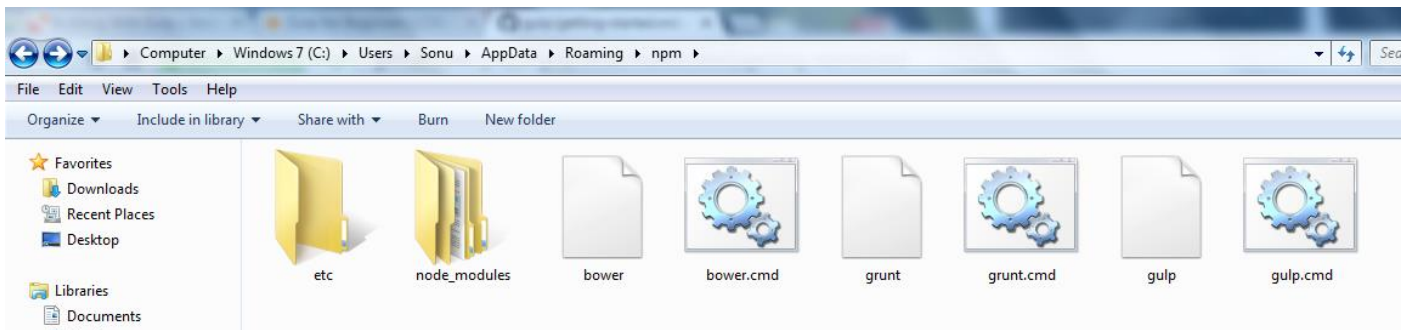Following is the directory structure where Grunt-cli is installed.

Step 3b: Install Gulp Globally (If your project use gulp instead of grunt)

In order to run gulp you need to install gulp-cli globally.

Run command "npm install gulp-cli –g"

It will get installed at "C:\Users\Sonu\AppData\Roaming\npm".

Following is the directory structure where Gulp-cli is installed.

Set up is now completed.

Step 4: Running your project

a) Installing npm dependencies

Go to project and then run "npm install" from where package.json is located.

It will create "node_modules" directory in your project and it will download all the dependencies mentioned in package.json file.

Also it will create "npm-cache" directory at "C:\Users\Sonu\AppData\Roaming".

b) Installing bower dependencies

 Run "bower install" from where bower.json is located.

It will create "bower_components" directory in your project and it will download all the dependencies mentioned in bower.json file.

c) Running grunt

Run "grunt" from where Gruntfile.js is located to run the tasks defined in project.

OR

c) Running gulp

Run "gulp" from where Gulpfile.js is located to run the tasks defined in project.

You are all set to run your project!!!