Grunt Tooling
Vintedge Build System

By Gavin
This is not the best and please feel free to improve it and SHARE!!! Even with a non-vintedger.

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1. Introduction

1a. Grunt

The JavaScript Task Runner

https://gruntjs.com/

1b. Pug Template Engine

Template Engine

https://pugjs.org/api/getting-started.html

1c. Stylus CSS language

Expressive, dynamic, robust CSS

http://stylus-lang.com/

Do pickup the following skill-set if possible:

Vue.js, React or Angular & PWA

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2. Setup

2a. Install a text editor

https://atom.io/

You can also use your own favourite editor

2b. Install a portable Console Emulator

http://cmder.net/
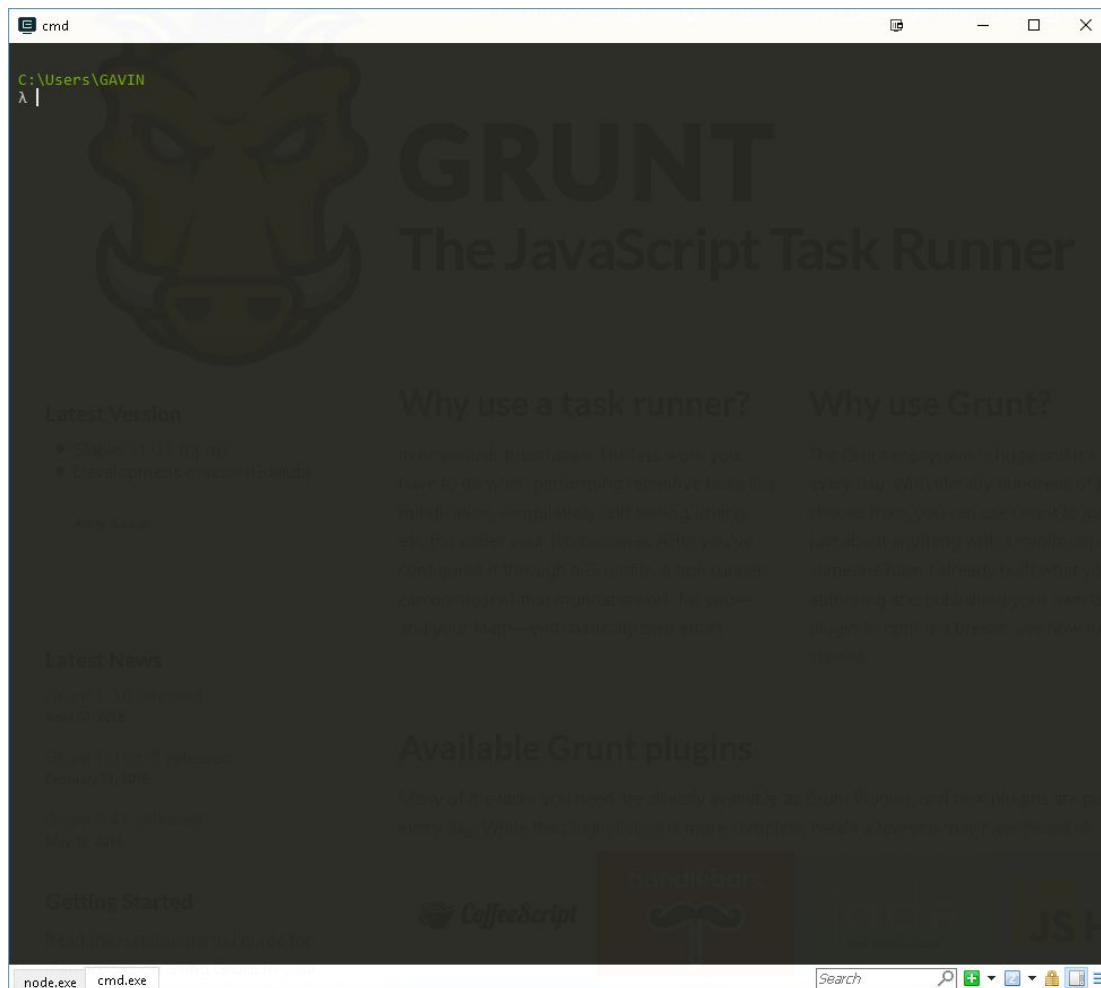
You can also use Windows CMD

2c. Install node.js

https://nodejs.org/en/
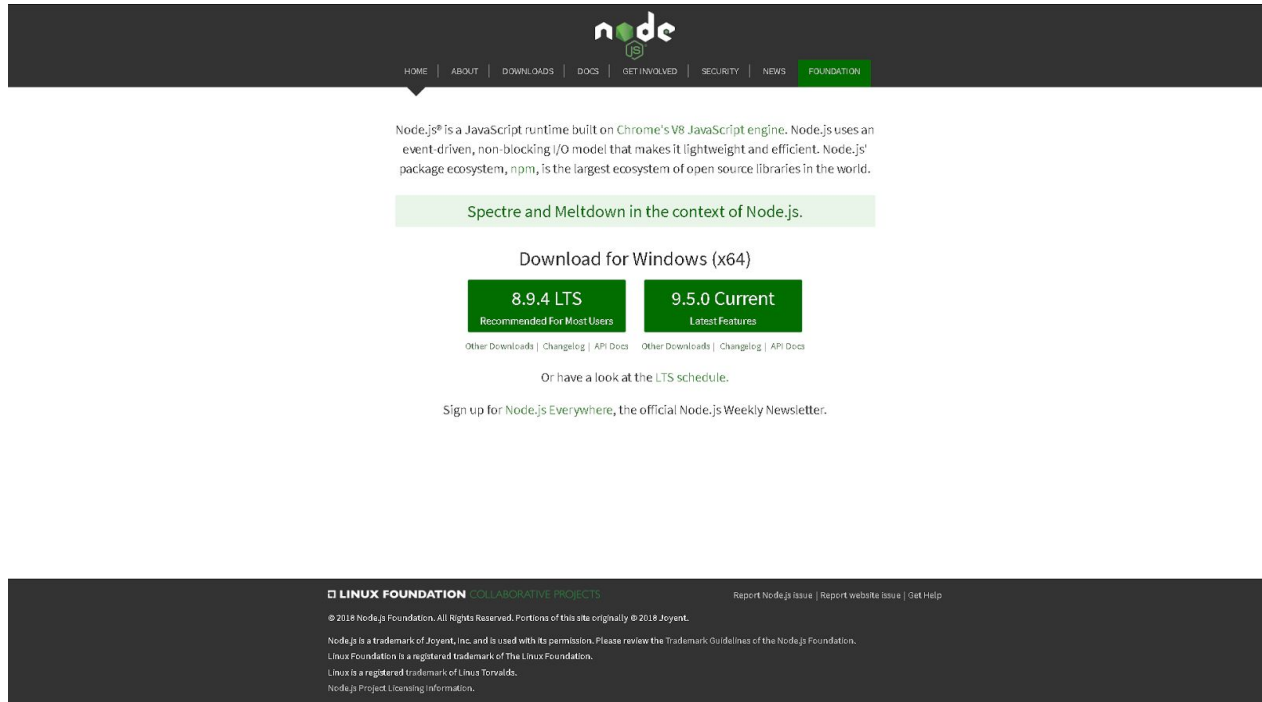
Just download the LTS version

In case you need multiple version:

https://www.sitepoint.com/quick-tip-multiple-versions-node-nvm/

Tips

a. To check your node version

node -v

b. To check your npm version

npm -v

c. You can install yarn here if you want

https://yarnpkg.com/en/
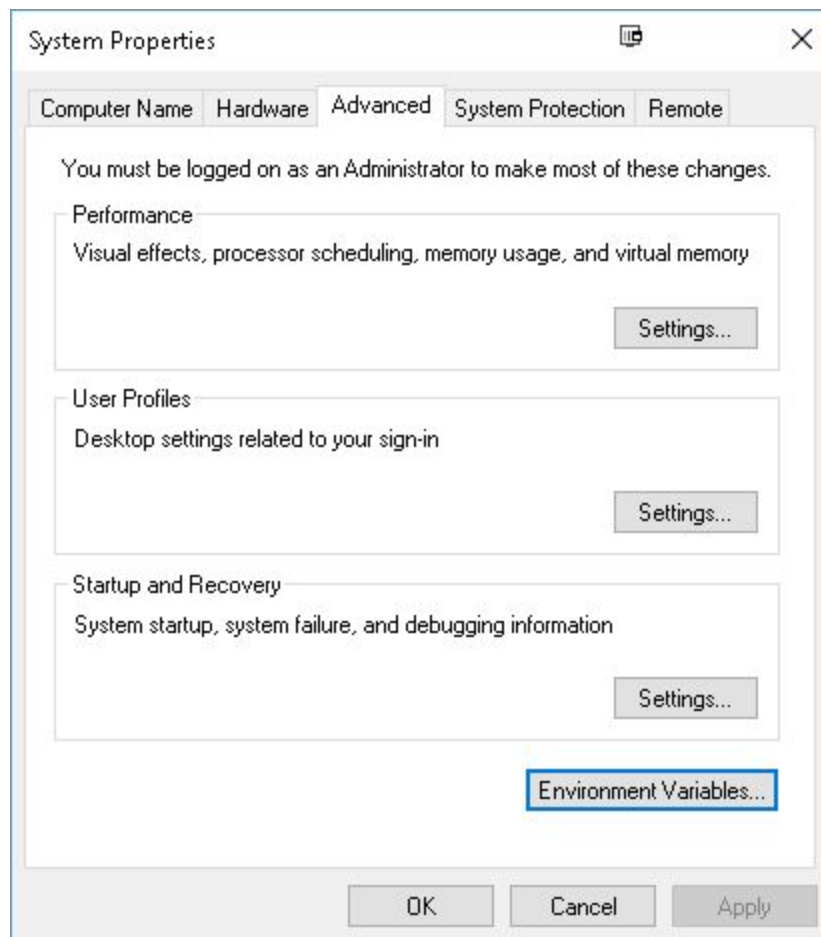
2d. Install Grunt CLI

npm install grunt-cli -g
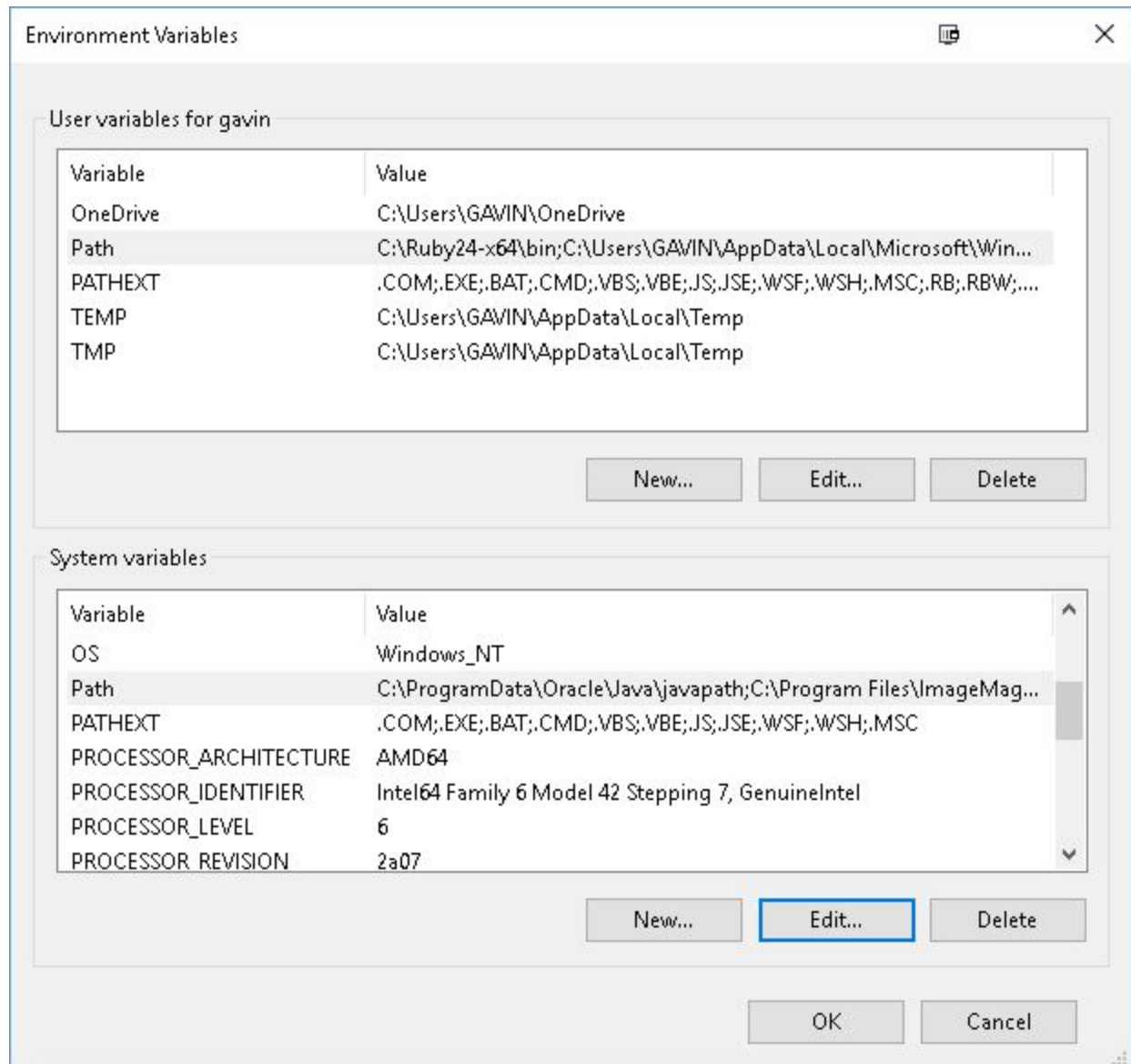
https://gruntjs.com/getting-started

3. Troubleshoot

3a. Missing npm environment variables

3ai. Open up System Properties and click Environment Variables
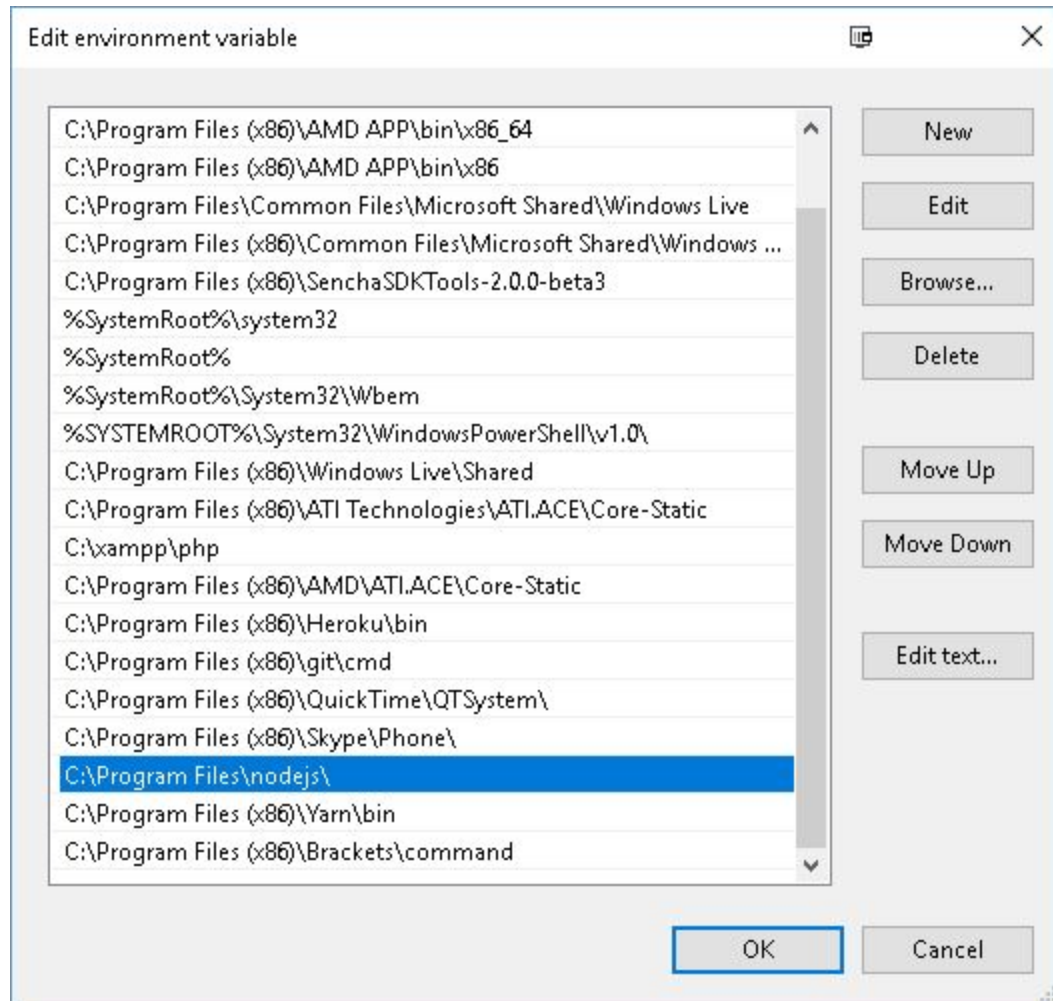
3aii. Under System Variables, click on Path and click Edit

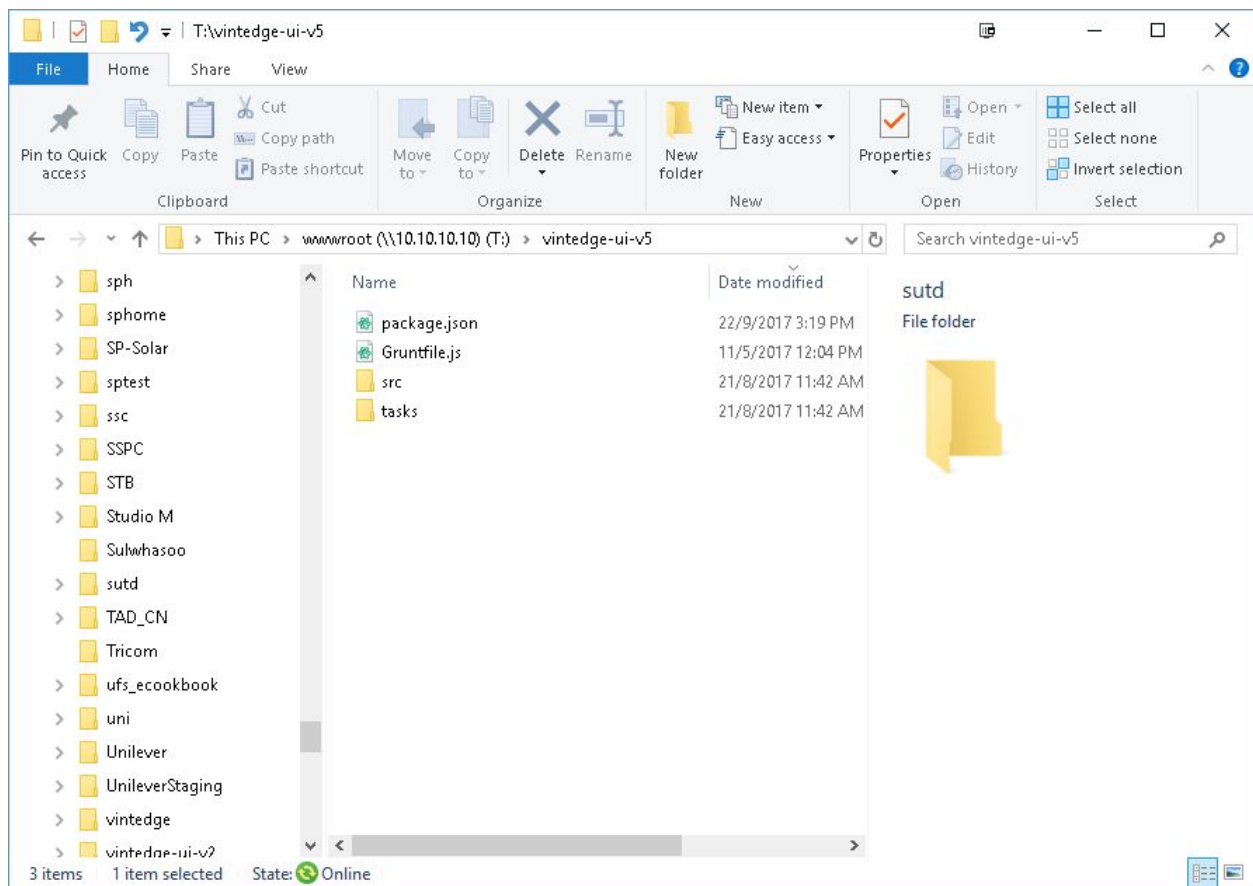### 3aiii. Add this if its not inside

C:\Program Files\nodejs\

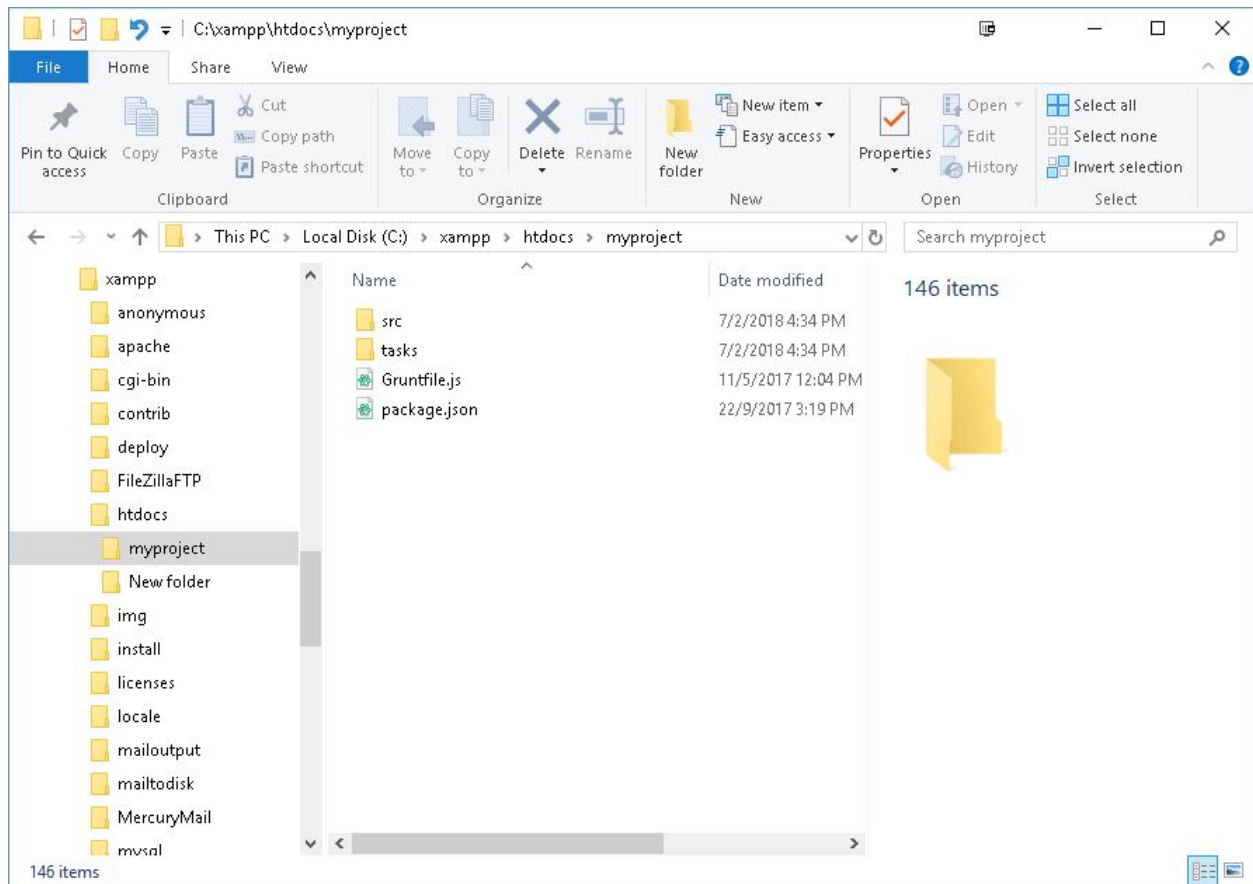# 4. Get started

4a. Download the template

T:\vintedge-ui-v5

or

http://dev.vintedge.com/gavin-handover/vintedge-ui-v5.zip

4b. Copy these files to your project folder
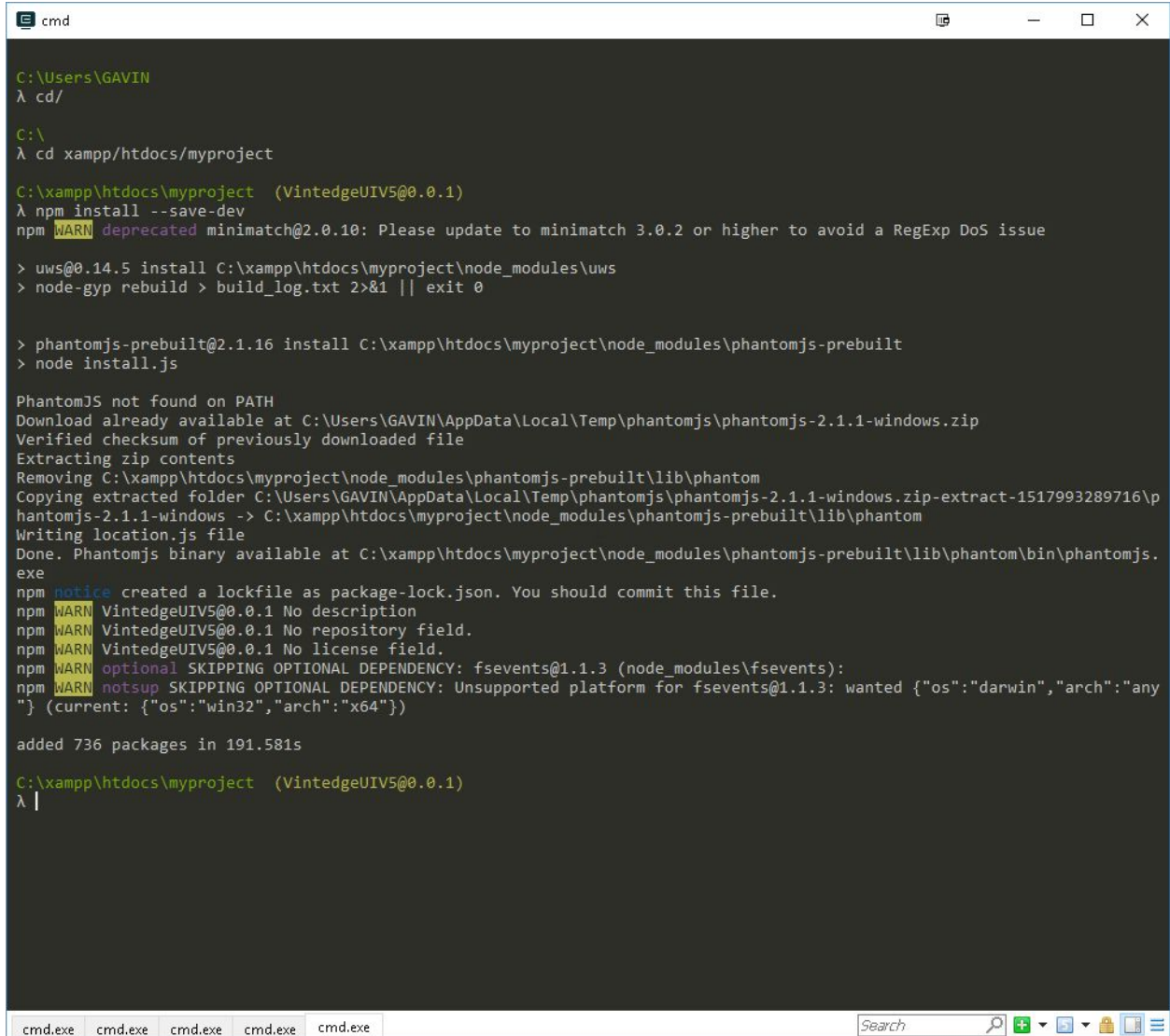
4c. Open up cmdr and navigate to the folder

cd xampp/htdocs/myproject

4d. Install the node-modules

npm install --save-dev

```
cmd                                                                            —  □  ✕

C:\Users\GAVIN
λ cd/

C:\
λ cd xampp/htdocs/myproject

C:\xampp\htdocs\myproject  (VintedgeUIV5@0.0.1)
λ npm install --save-dev
npm WARN deprecated minimatch@2.0.10: Please update to minimatch 3.0.2 or higher to avoid a RegExp DoS issue

> uws@0.14.5 install C:\xampp\htdocs\myproject\node_modules\uws
> node-gyp rebuild > build_log.txt 2>&1 || exit 0


> phantomjs-prebuilt@2.1.16 install C:\xampp\htdocs\myproject\node_modules\phantomjs-prebuilt
> node install.js

PhantomJS not found on PATH
Download already available at C:\Users\GAVIN\AppData\Local\Temp\phantomjs\phantomjs-2.1.1-windows.zip
Verified checksum of previously downloaded file
Extracting zip contents
Removing C:\xampp\htdocs\myproject\node_modules\phantomjs-prebuilt\lib\phantom
Copying extracted folder C:\Users\GAVIN\AppData\Local\Temp\phantomjs\phantomjs-2.1.1-windows.zip-extract-1517993289716\p
hantomjs-2.1.1-windows -> C:\xampp\htdocs\myproject\node_modules\phantomjs-prebuilt\lib\phantom
Writing location.js file
Done. Phantomjs binary available at C:\xampp\htdocs\myproject\node_modules\phantomjs-prebuilt\lib\phantom\bin\phantomjs.
exe
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN VintedgeUIV5@0.0.1 No description
npm WARN VintedgeUIV5@0.0.1 No repository field.
npm WARN VintedgeUIV5@0.0.1 No license field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.1.3 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.1.3: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})

added 736 packages in 191.581s

C:\xampp\htdocs\myproject  (VintedgeUIV5@0.0.1)
λ |


  cmd.exe   cmd.exe   cmd.exe   cmd.exe   cmd.exe          Search
```
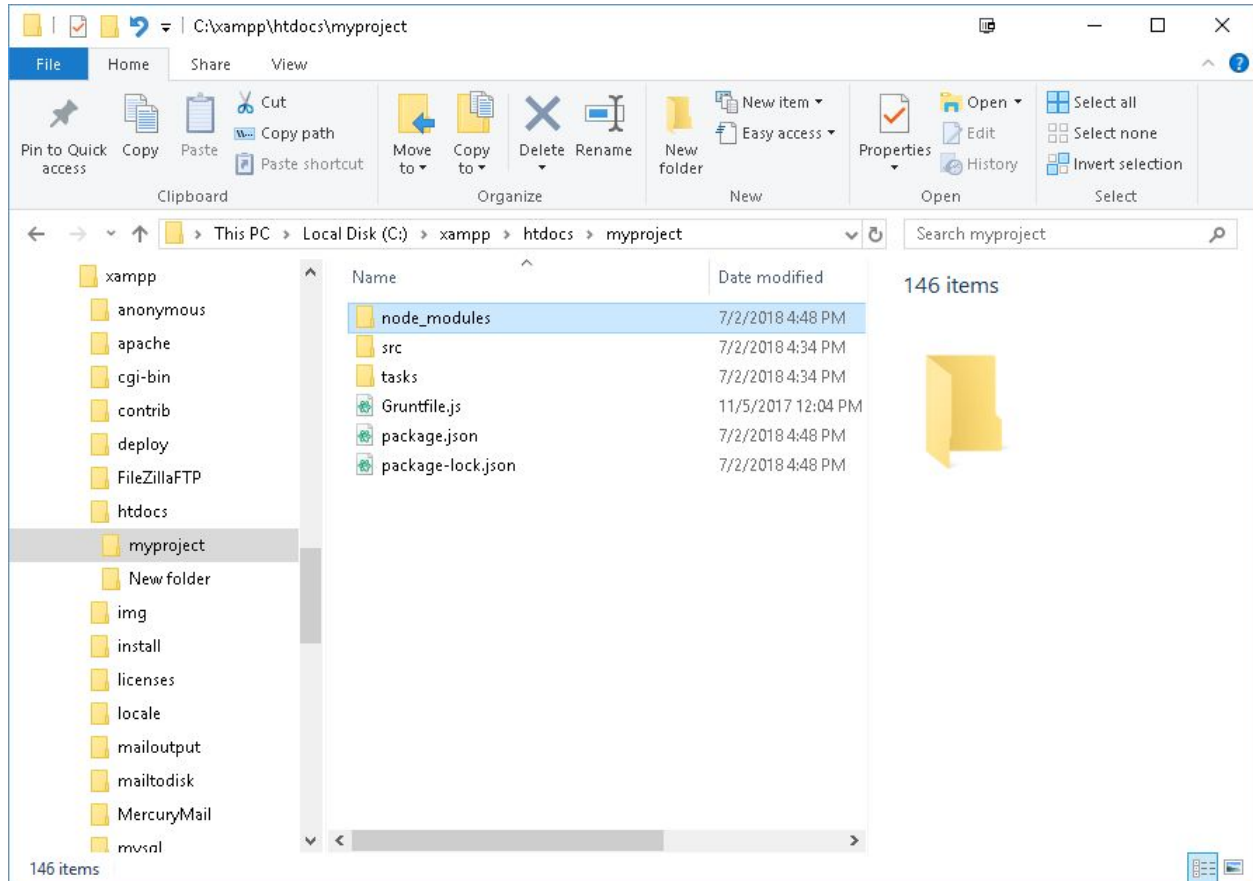
4e. Check node-modules are installed

Please note that you do not need to manually install these

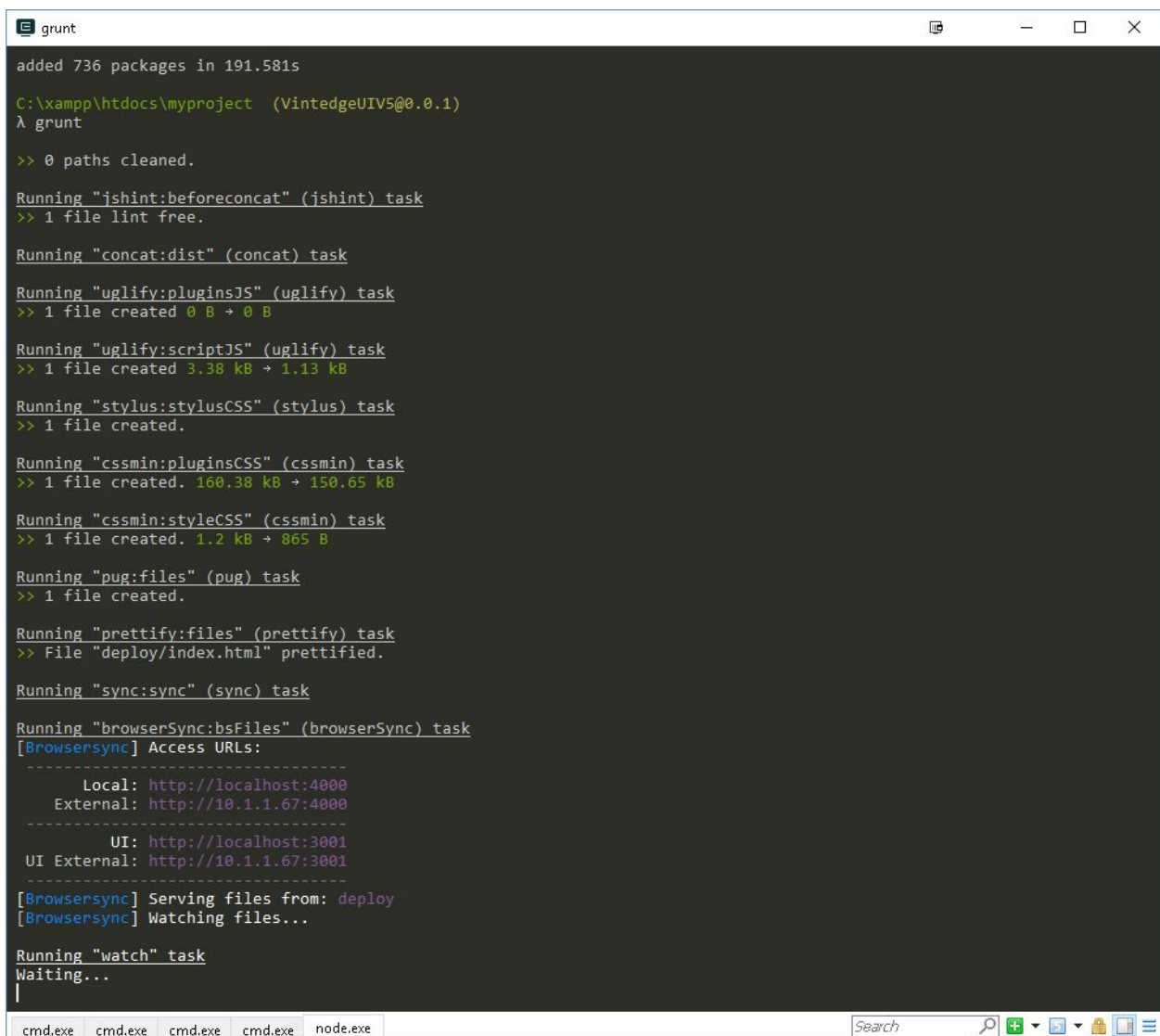Its done via: npm install --save-dev

4f. Running Grunt task

grunt

To terminate any task: Ctrl + c

To clear console: clear

To close console: exit

You can also run specific task: Eg, grunt clean

4g. Deploy folder created automatically

These will be the files for deployment
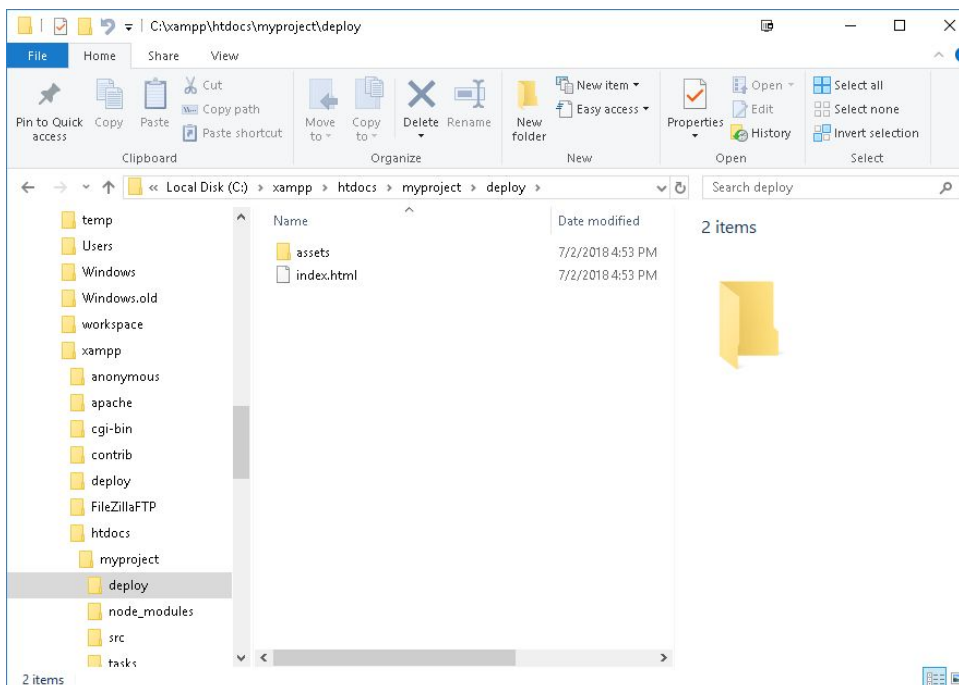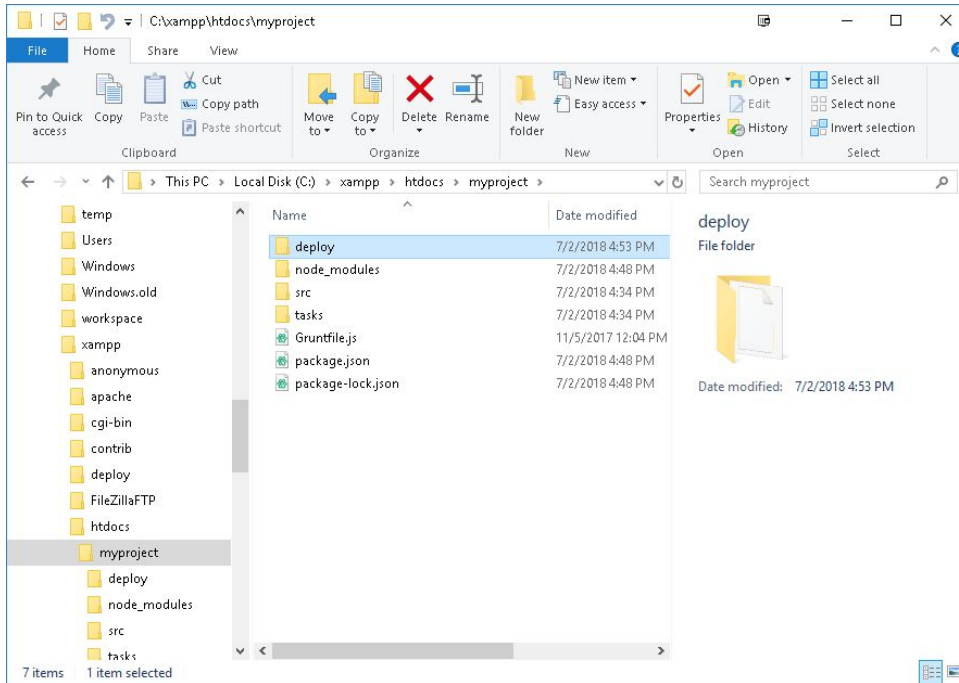
5. How it works

5a. Source files folder structure

Contains css, fonts, img, js, pdf and pug
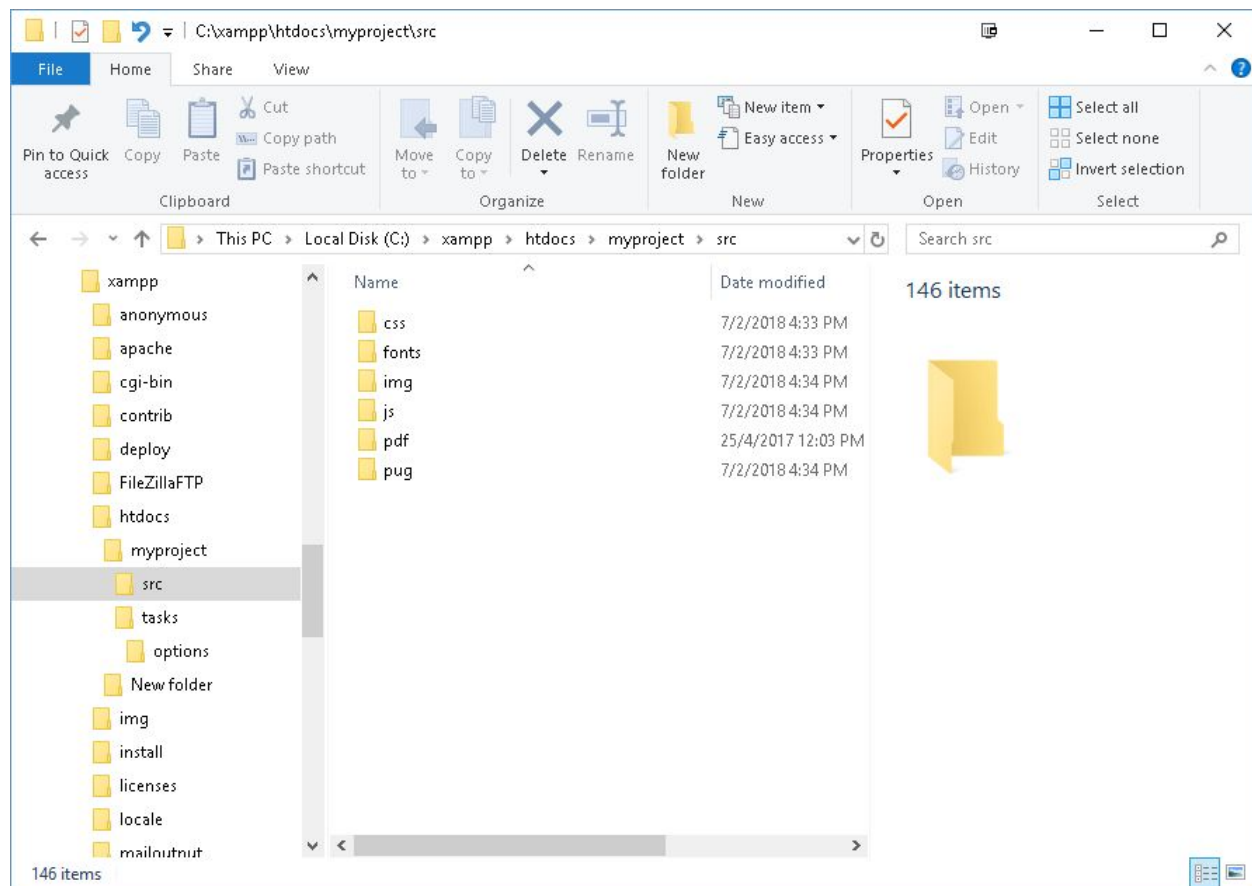
5b. CSS folder structure

Contains bootstrap, plugins and structure
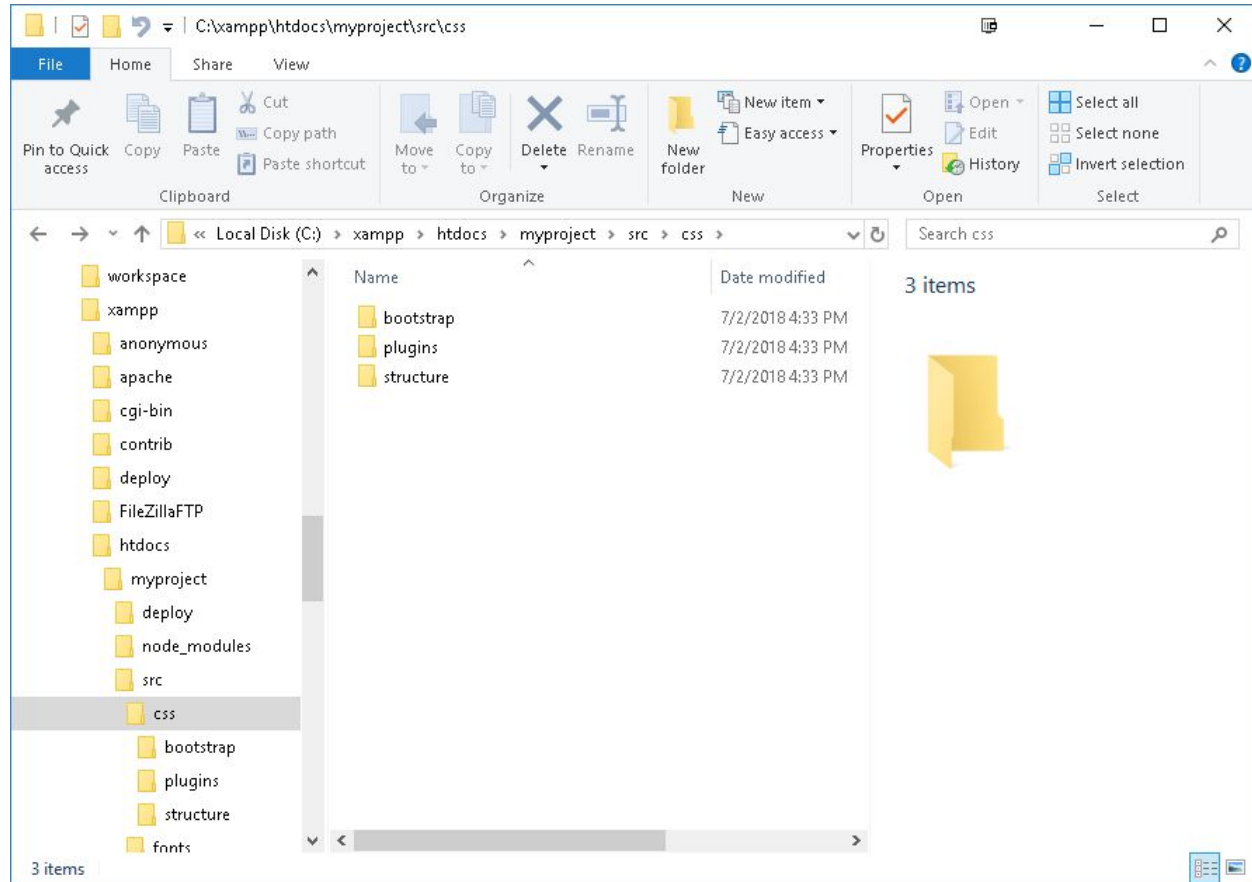
5bi. css/bootstrap Folder

Contains bootstrap.min.css

Bootstrap v3.3.7

Just replace this file if there is an update

Will be auto compiled with Grunt
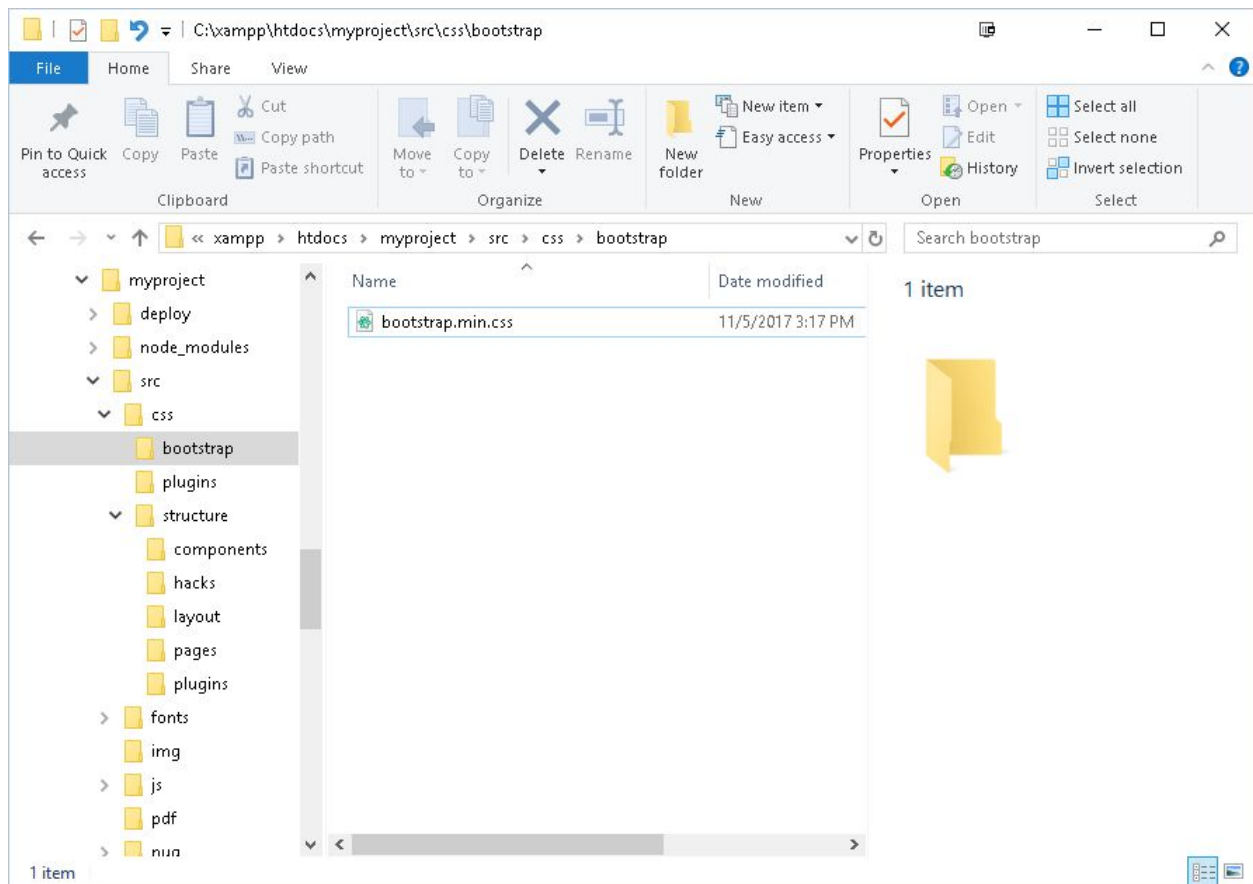
5bii. css/plugins folder

This is where I put all the plugins css

Will be auto compiled with Grunt
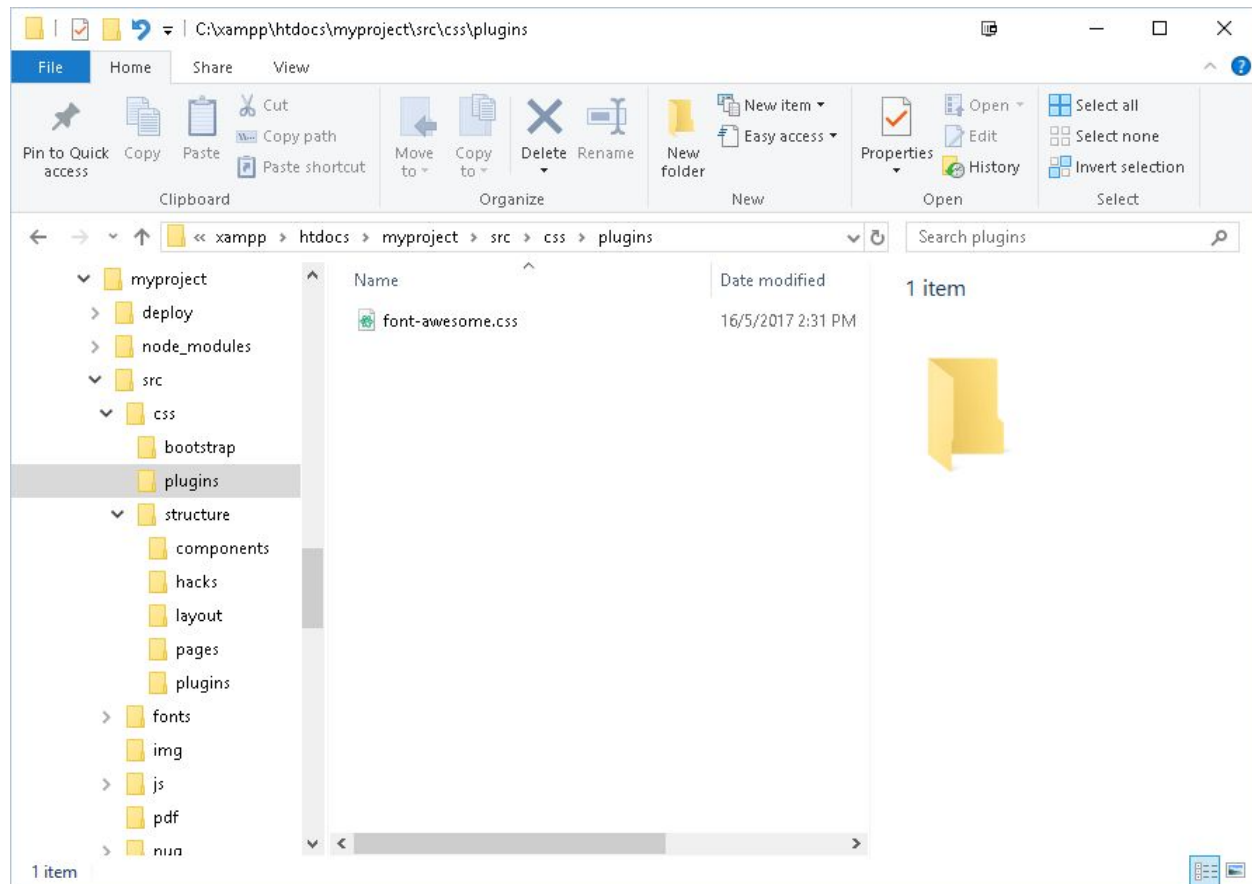
5biii. css/structure Folder

Contains components, hacks, layout, pages and plugins

This is where I put all the custom css

style.styl contains global vars and styles

Please do not delete or add style in **style.css**

Will be auto compiled with Grunt
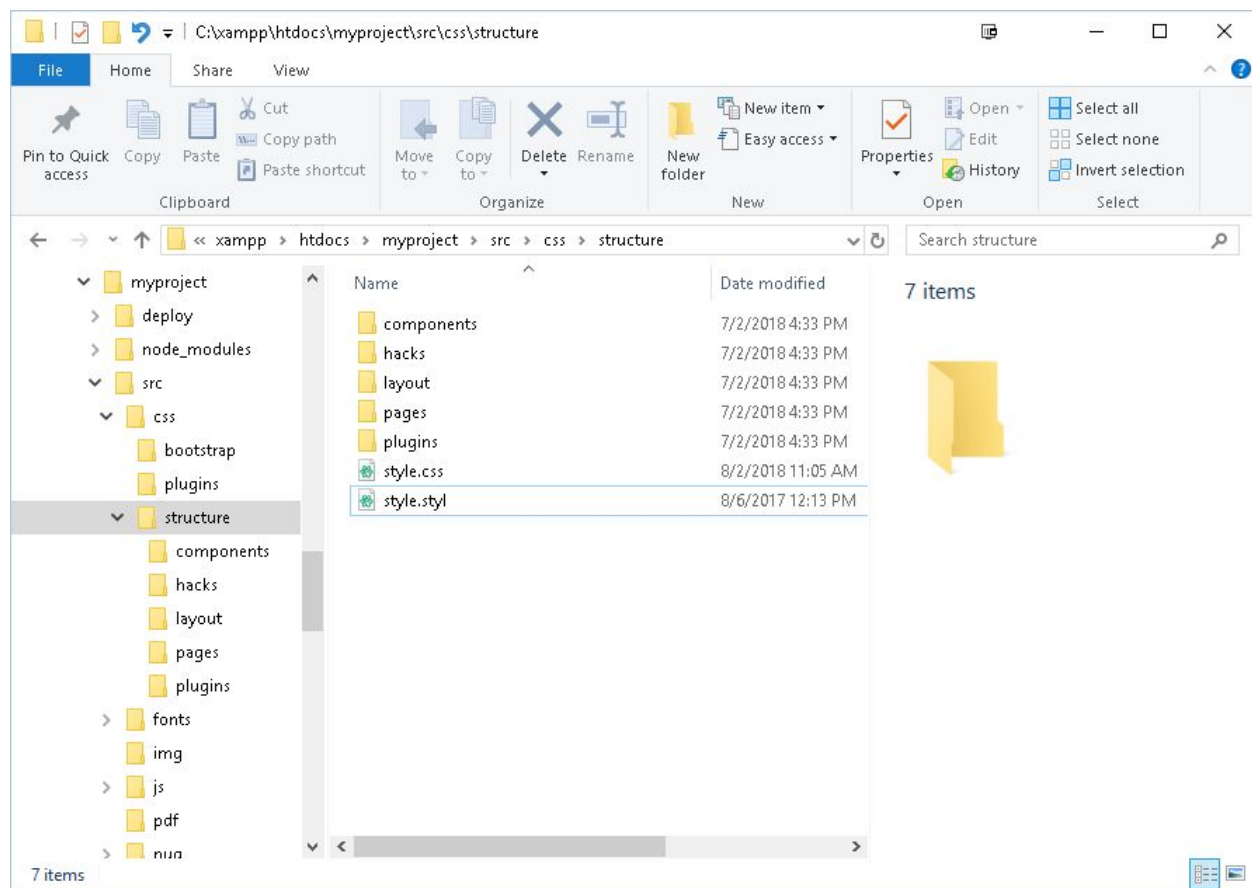
5biiia. css/structure/components Folder

Contains components related styl
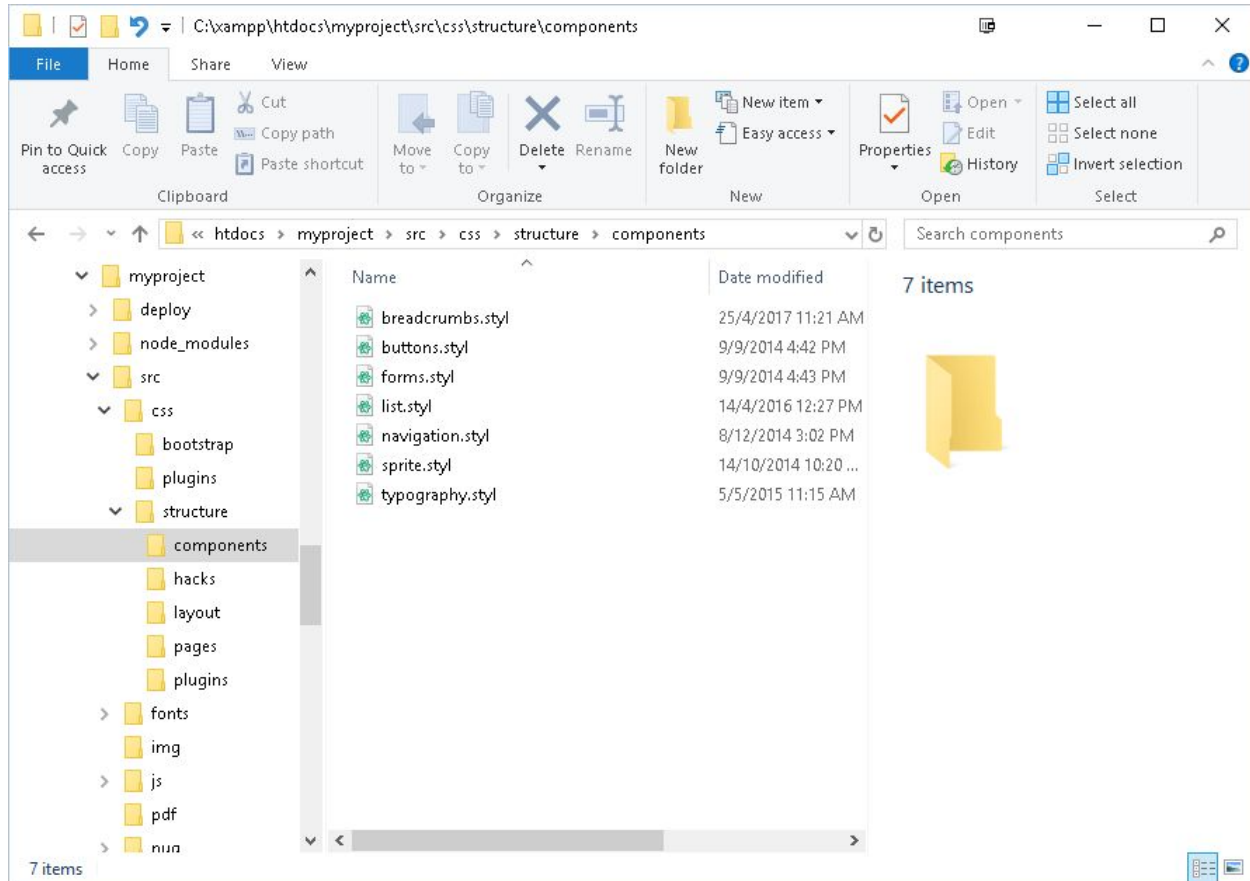
5biiib. css/structure/hacks Folder

Contains specific browser hacks
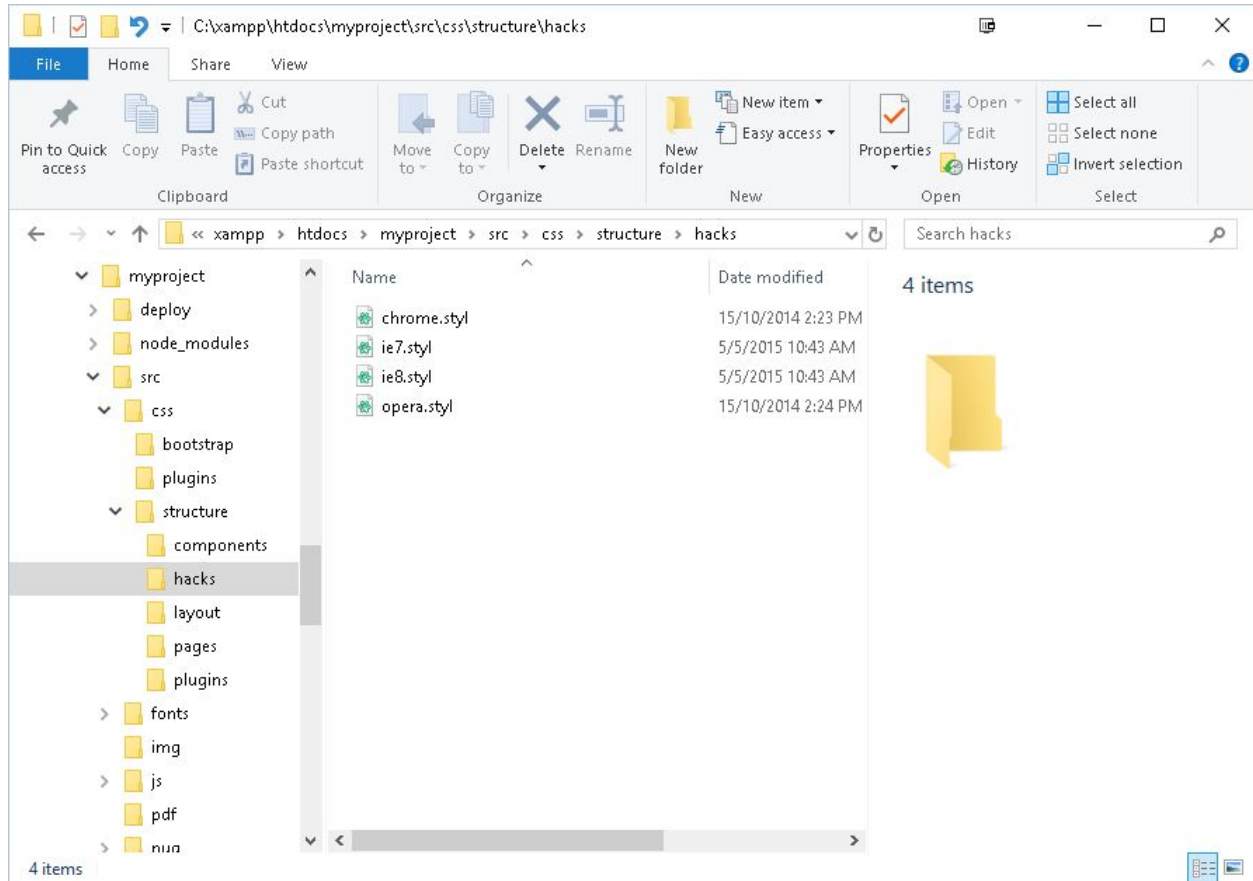
5biiic. css/structure/layout Folder

Contains layout related styl
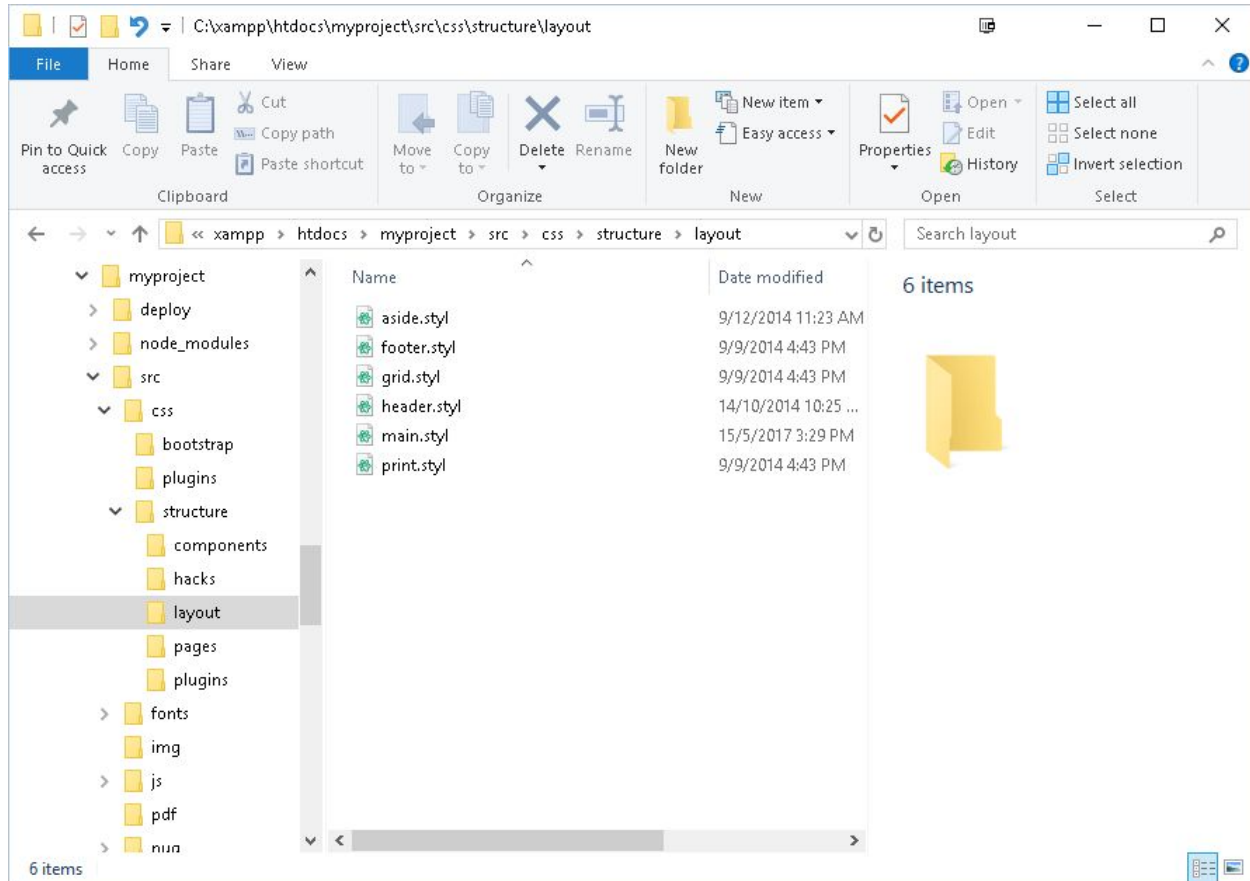
5biiid. css/structure/pages Folder

Contains page related styl
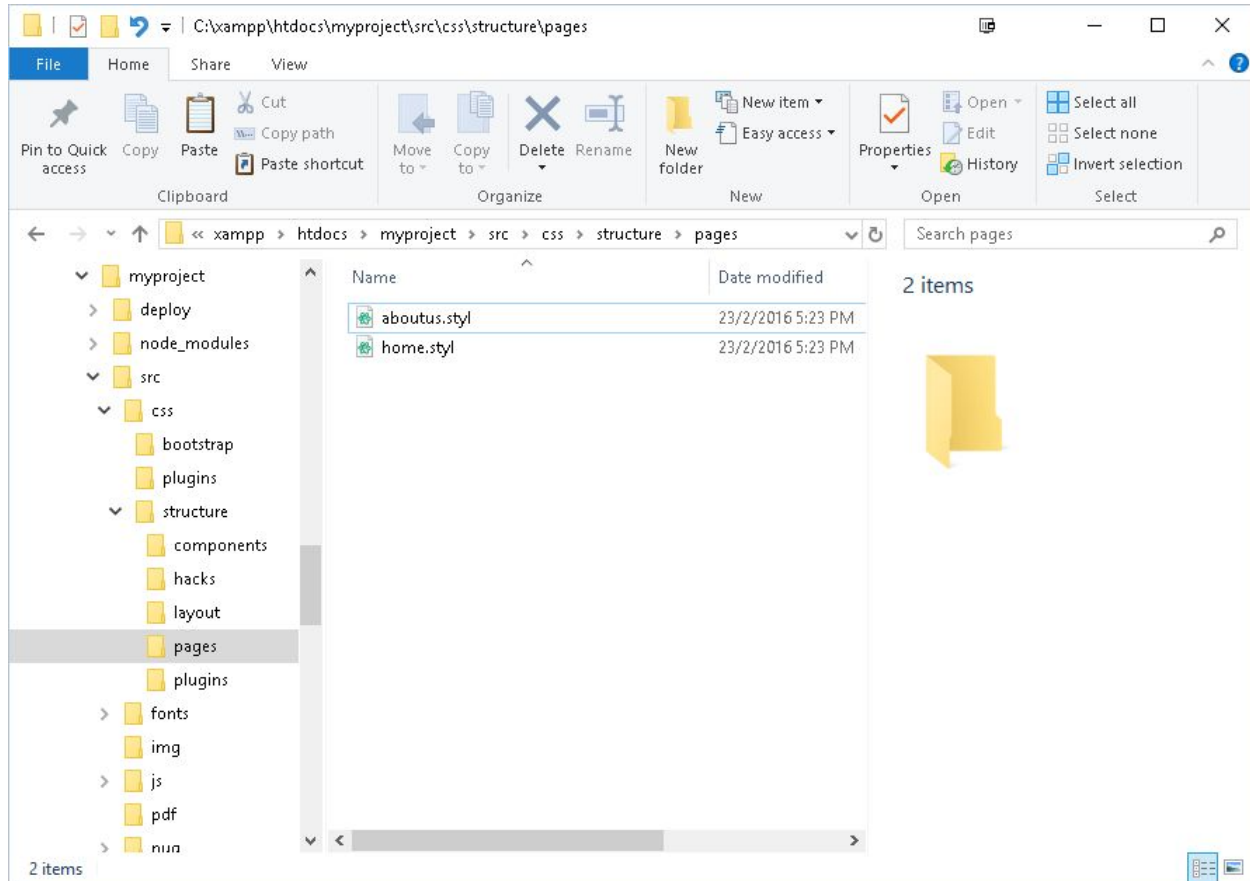
5biiie. css/structure/pages Folder

Contains plugins related styl

This is used to addon or overwrite css/plugins style
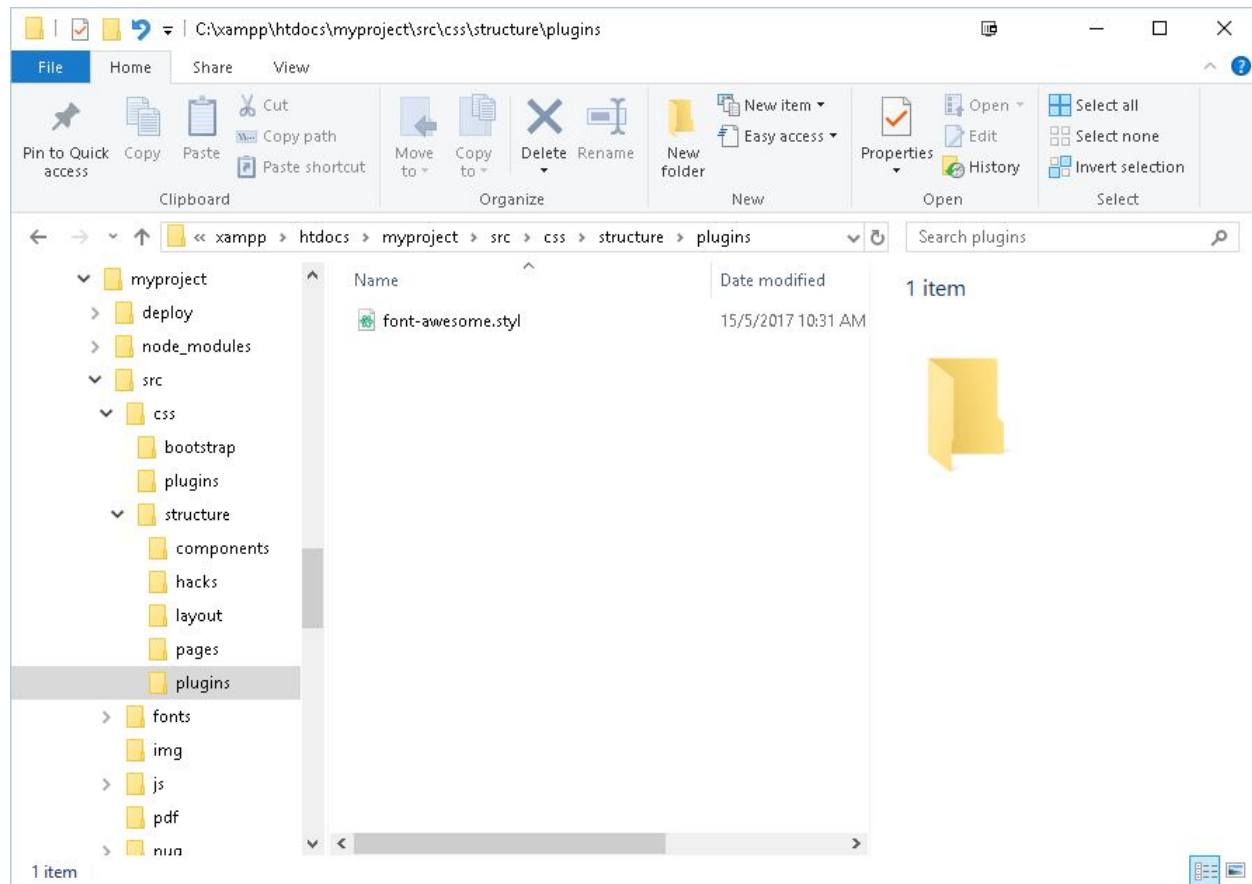
5c. Fonts folder structure

Contains all fonts used

Please feel free to use folders to organise your fonts
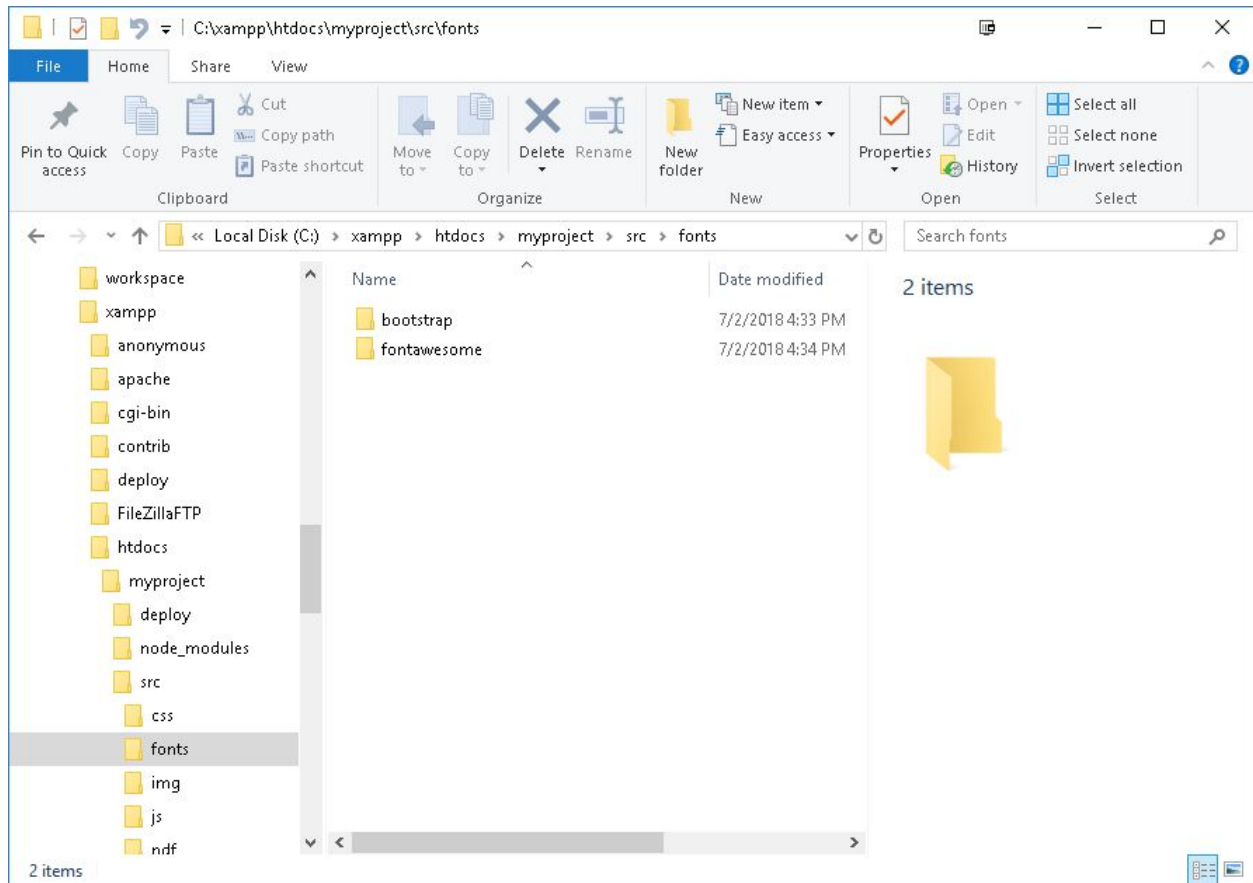
5d. Img folder structure

Contains all images

Please feel free to use folders to organise your images
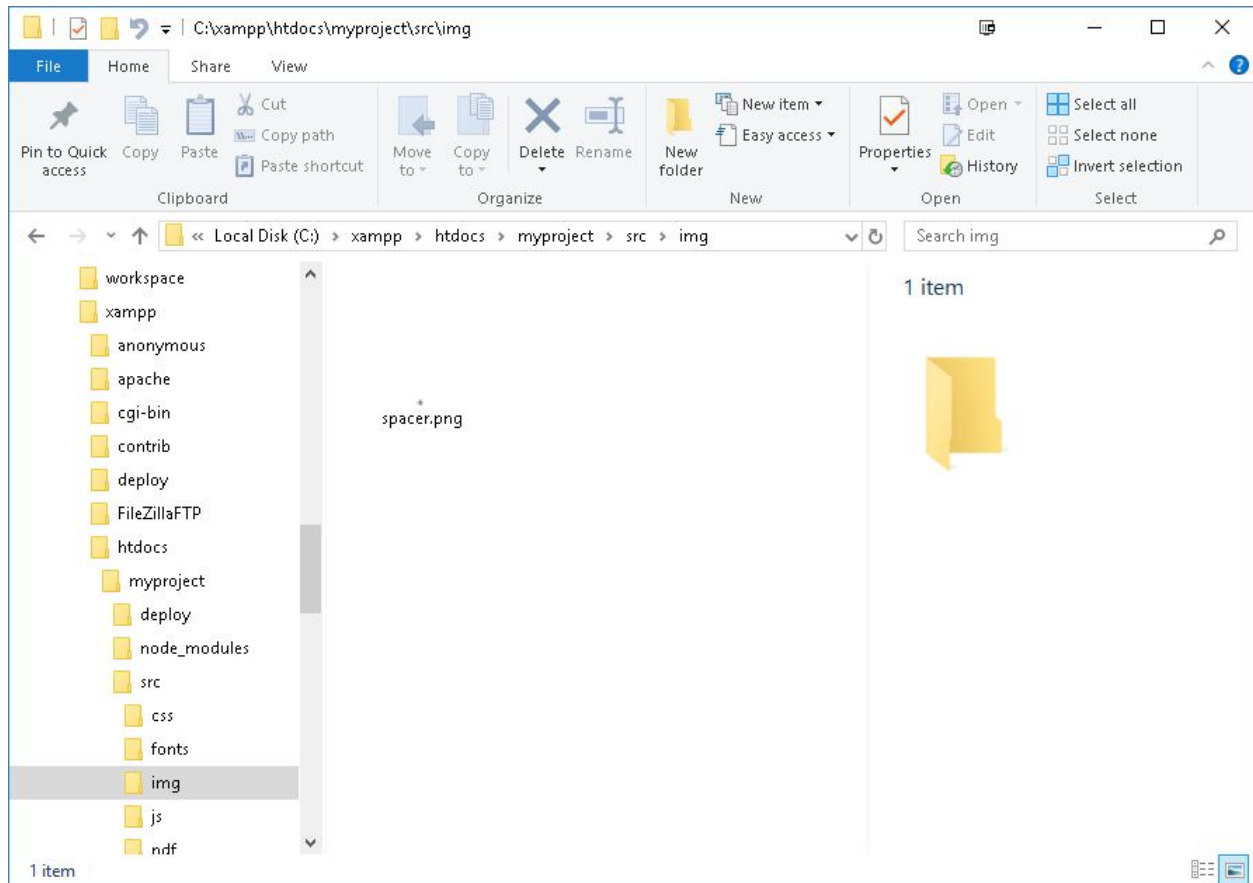
5e. JS folder structure

Contains plugins folder, vendor folder, plugins.js and script.js

Please do not delete or add js in **plugins.js**

Add custom JS into script.js

Will be auto compiled with Grunt
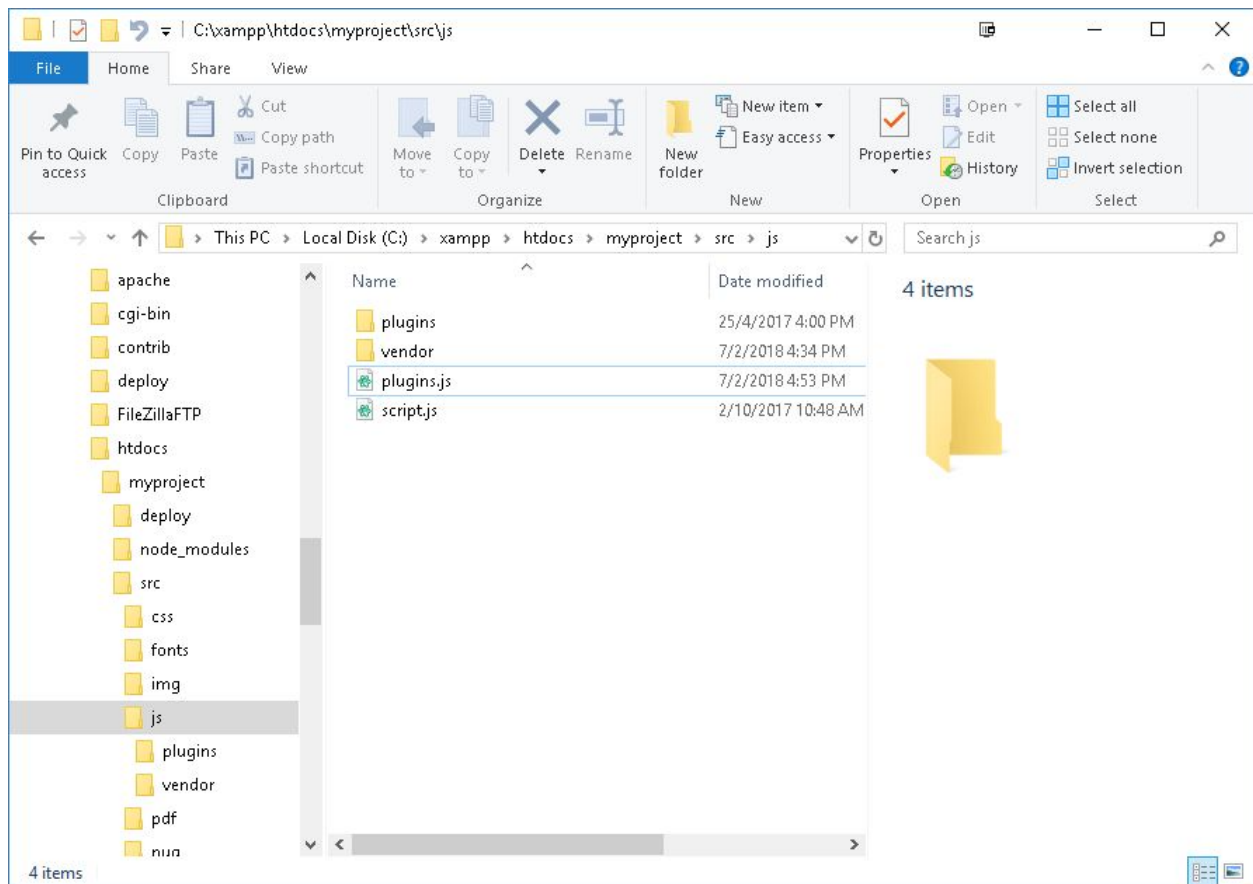
5ei. js/plugins folder

This is where I put all the plugins js

Will be auto compiled with Grunt
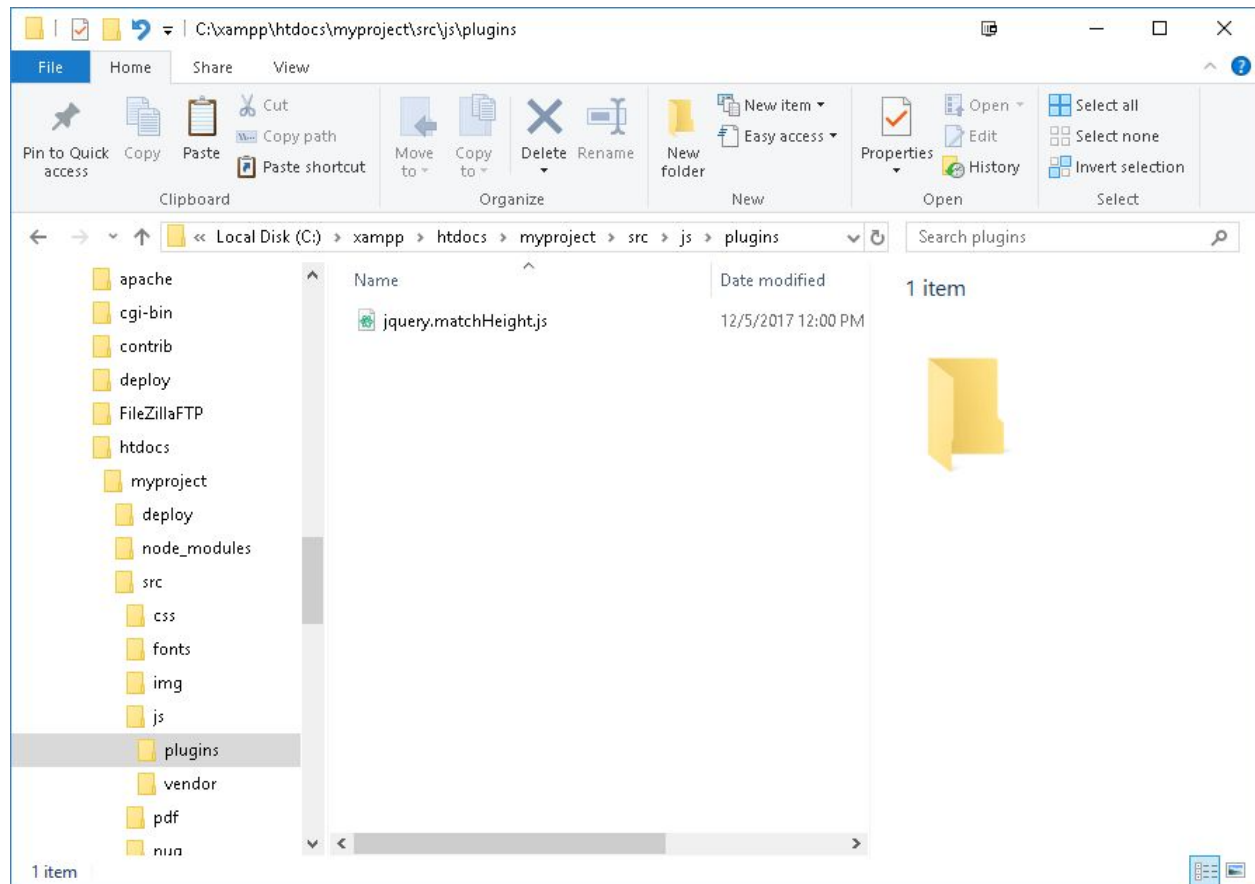
5eii. js/vendor folder

This is where I put all the vendor js

Will **NOT** be auto compiled with Grunt
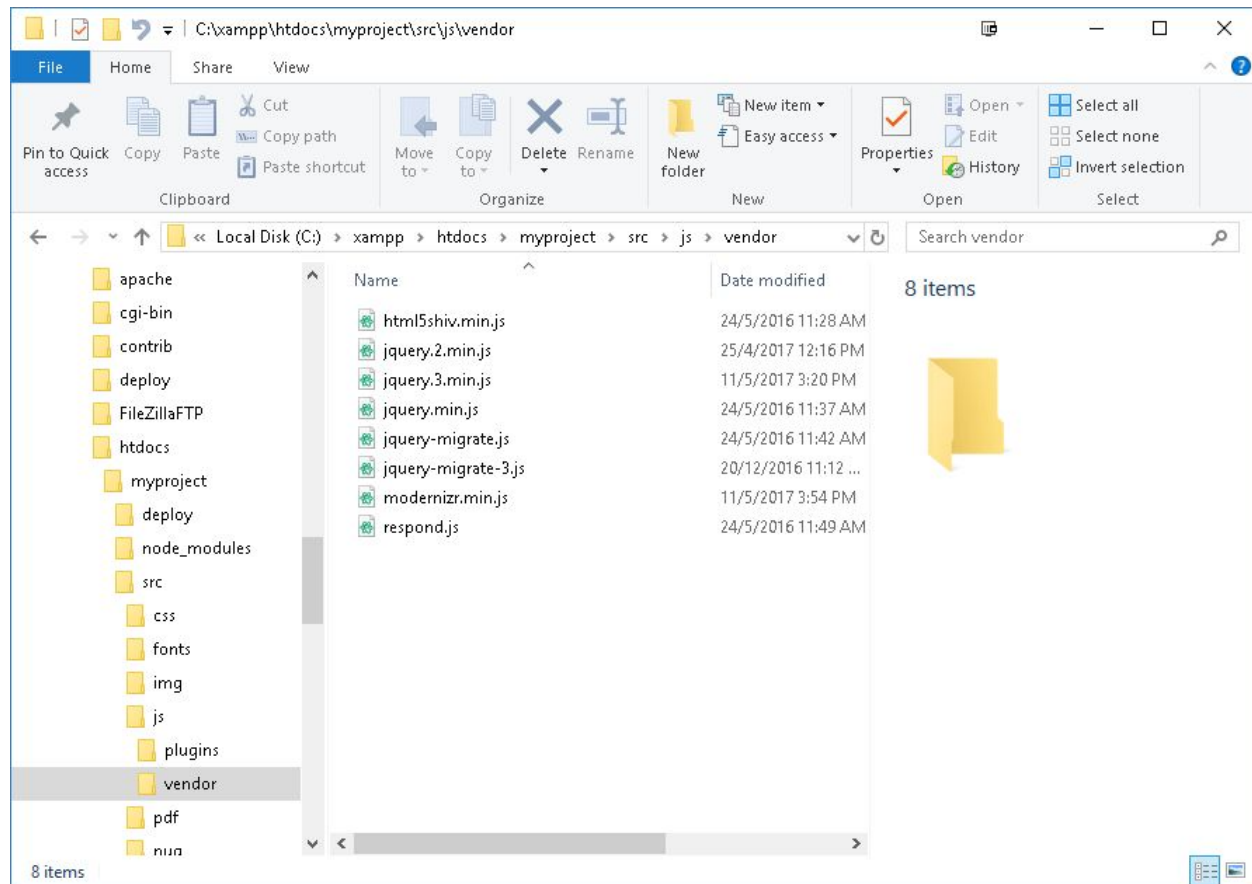
5f. PDF folder structure

Contains all pdf or media
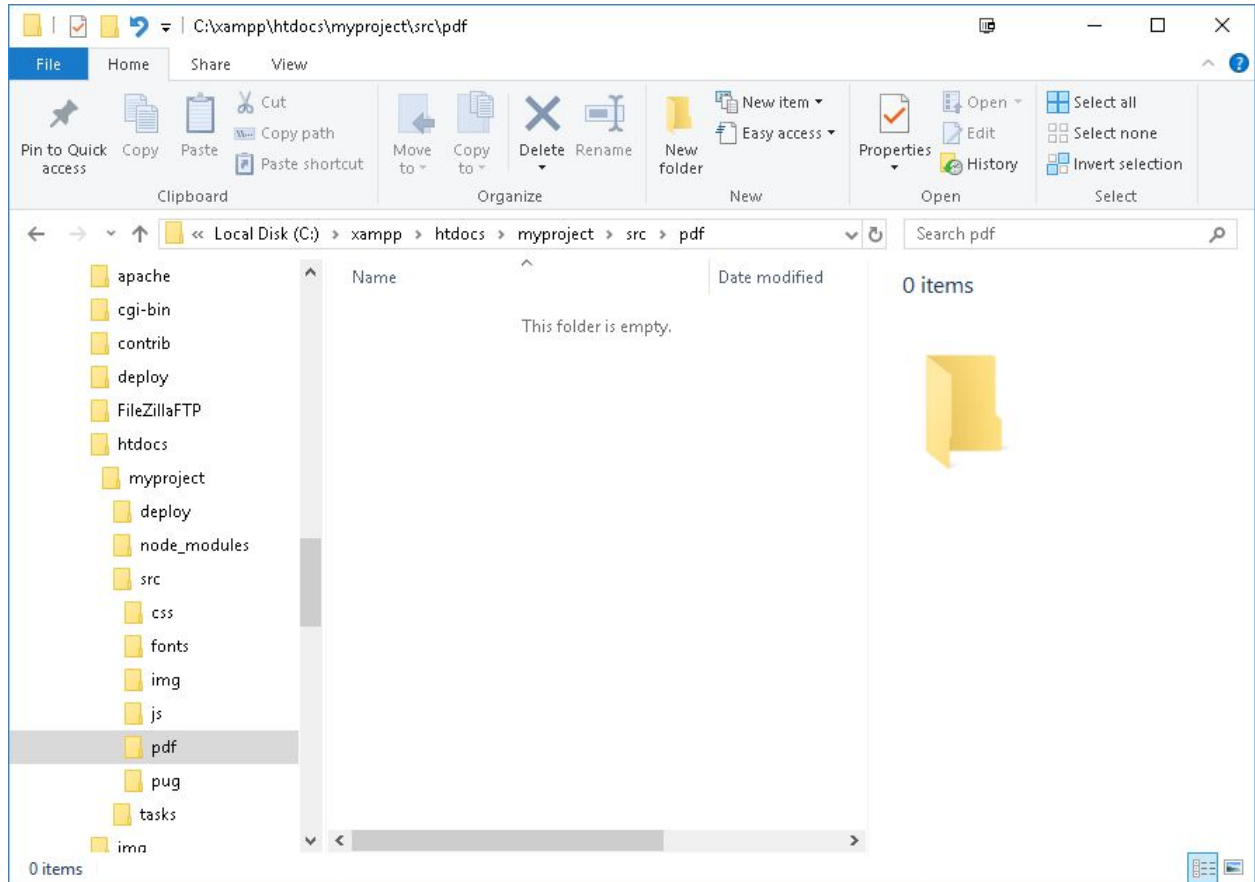
5g. Pug folder structure

Contains includes and pages folder

Will be auto compiled with Grunt
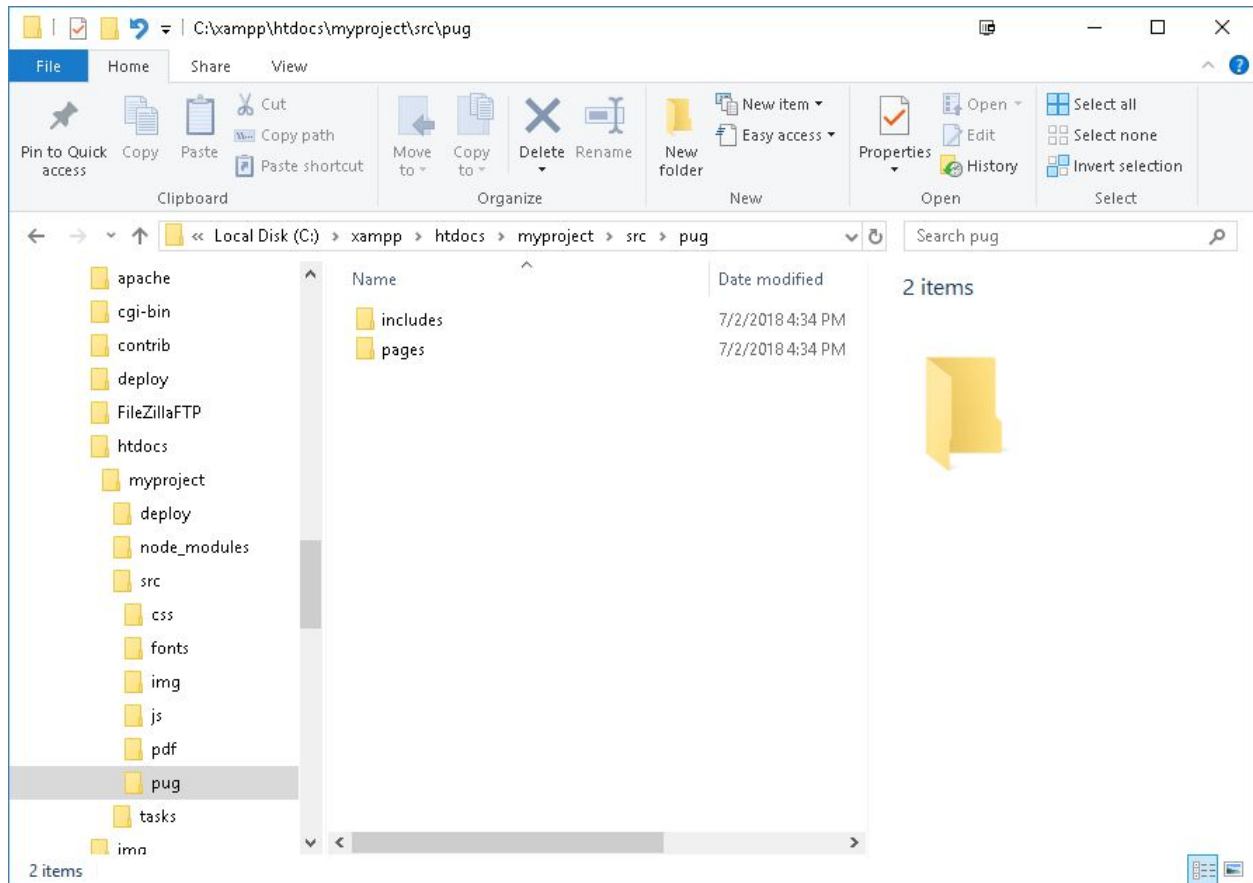
5gi. pug/includes folder

This is where I put all the global pug templates

Will be auto compiled with Grunt
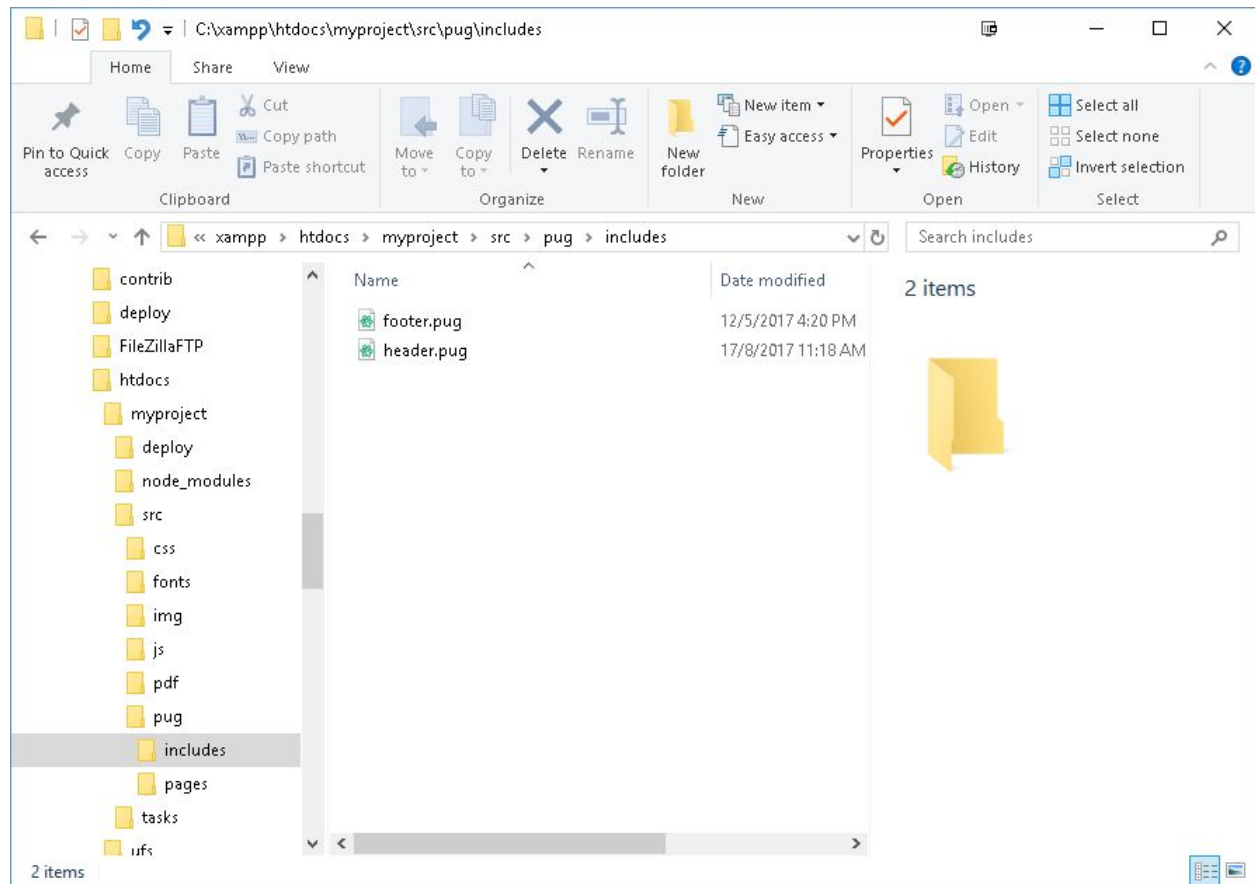
5gii. pug/pages folder

This is where I put all the individual pug

Please feel free to use folders to organise your pug files. These folders will also be added into your deploy folder

Will be auto compiled with Grunt
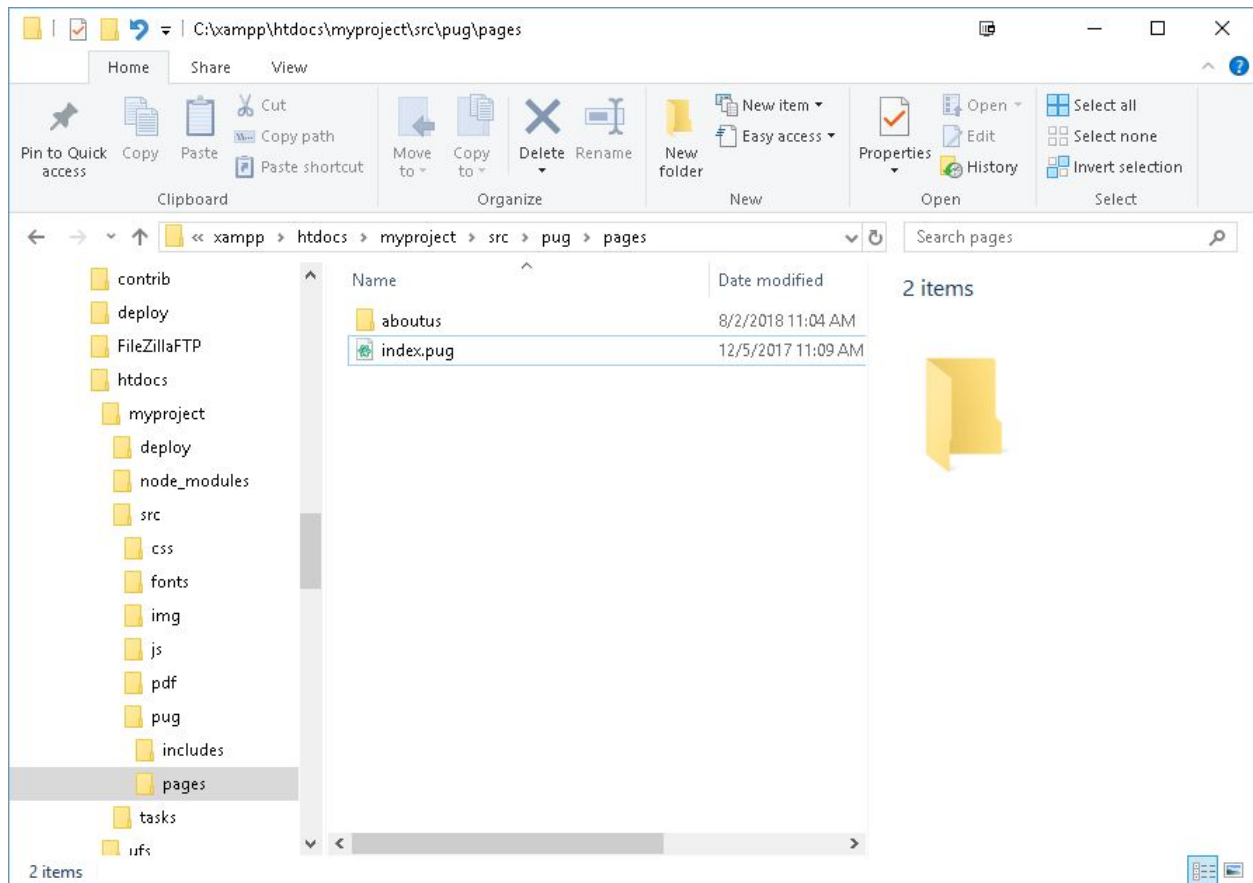
6. Deployment

6a. Deploy folder structure

Contains html folders, assets and htmls

This folder and contents will be recreated every time you run "grunt". So please **DO NOT** add anything inside

Auto generated with Grunt from your src folder
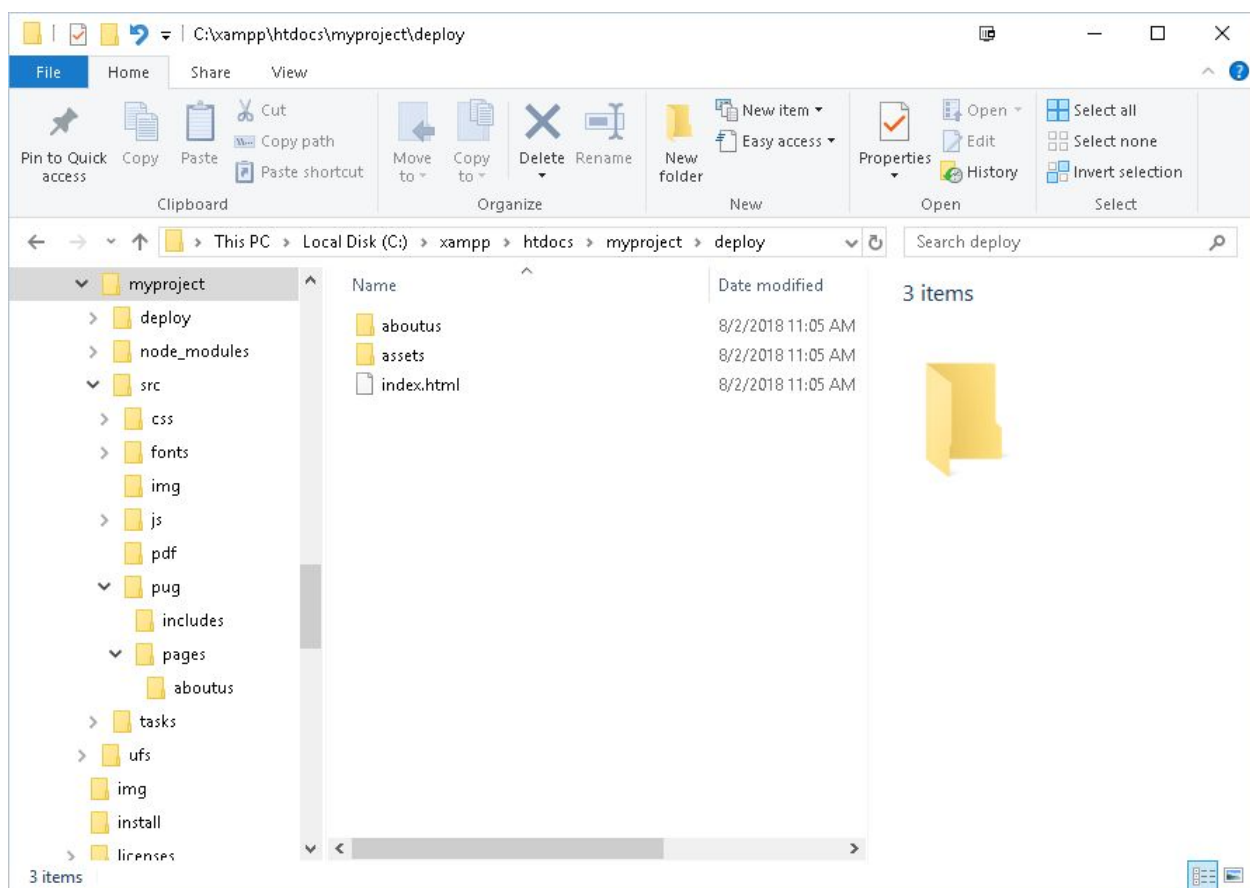
6b. deploy/assets folder structure

Contains all your assets

Auto generated with Grunt from your src folder
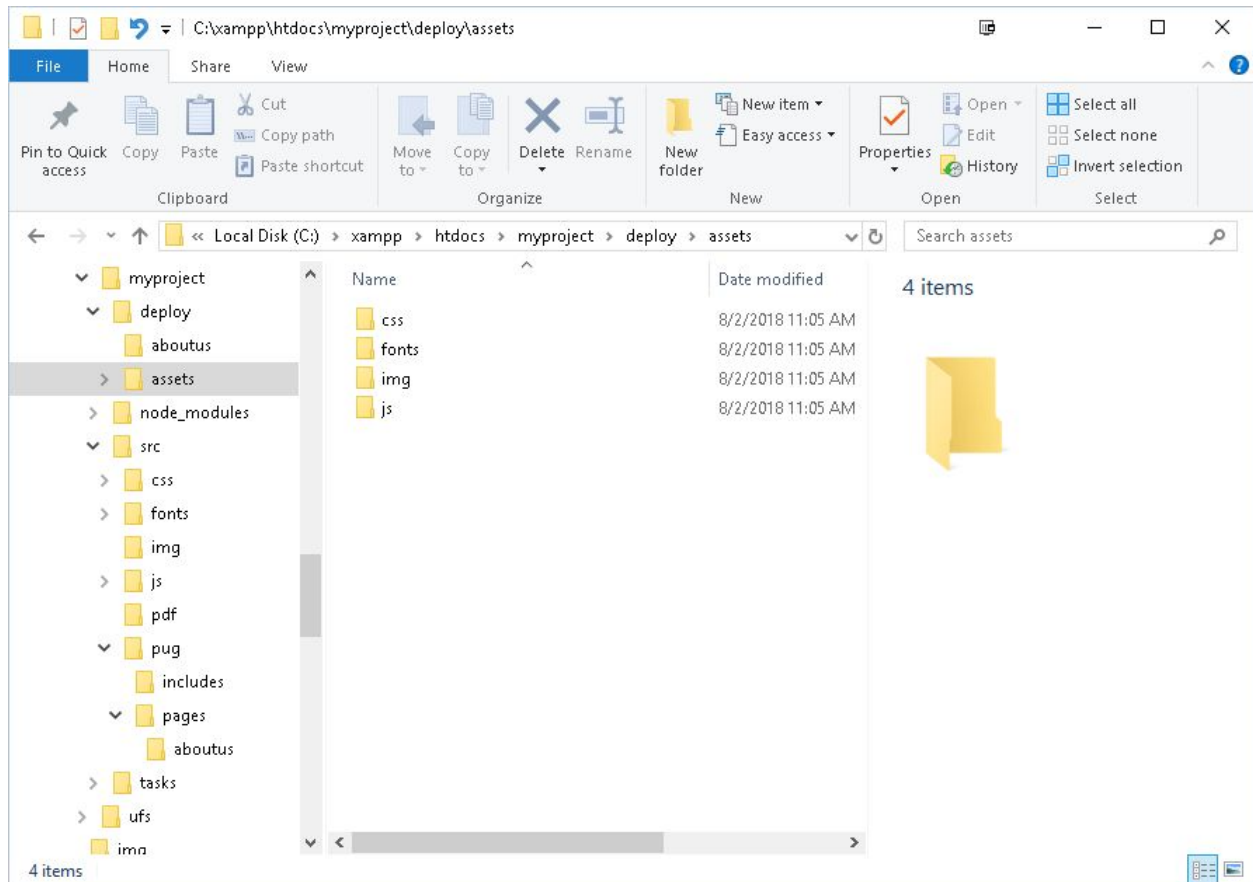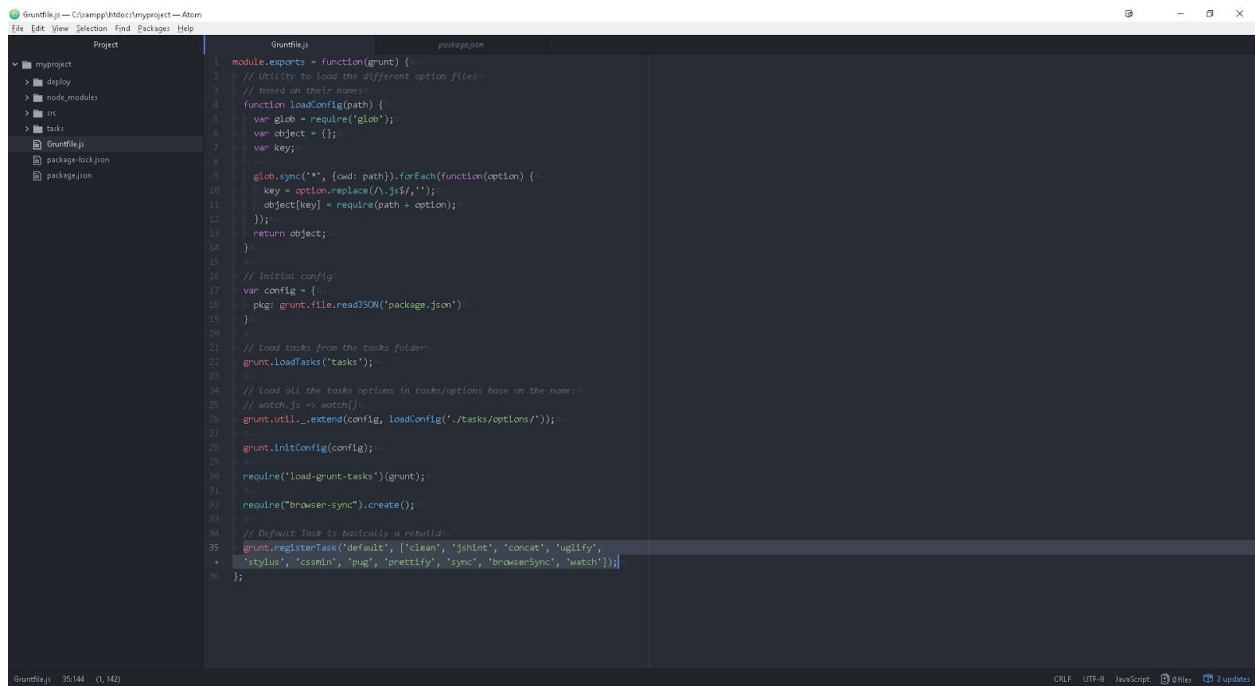
7. Configuring Grunt task

https://gruntjs.com/plugins

Details of the plugin config can be found in their doc

7a. Open Gruntfile.js

Add your new task

7b. New task javascript file
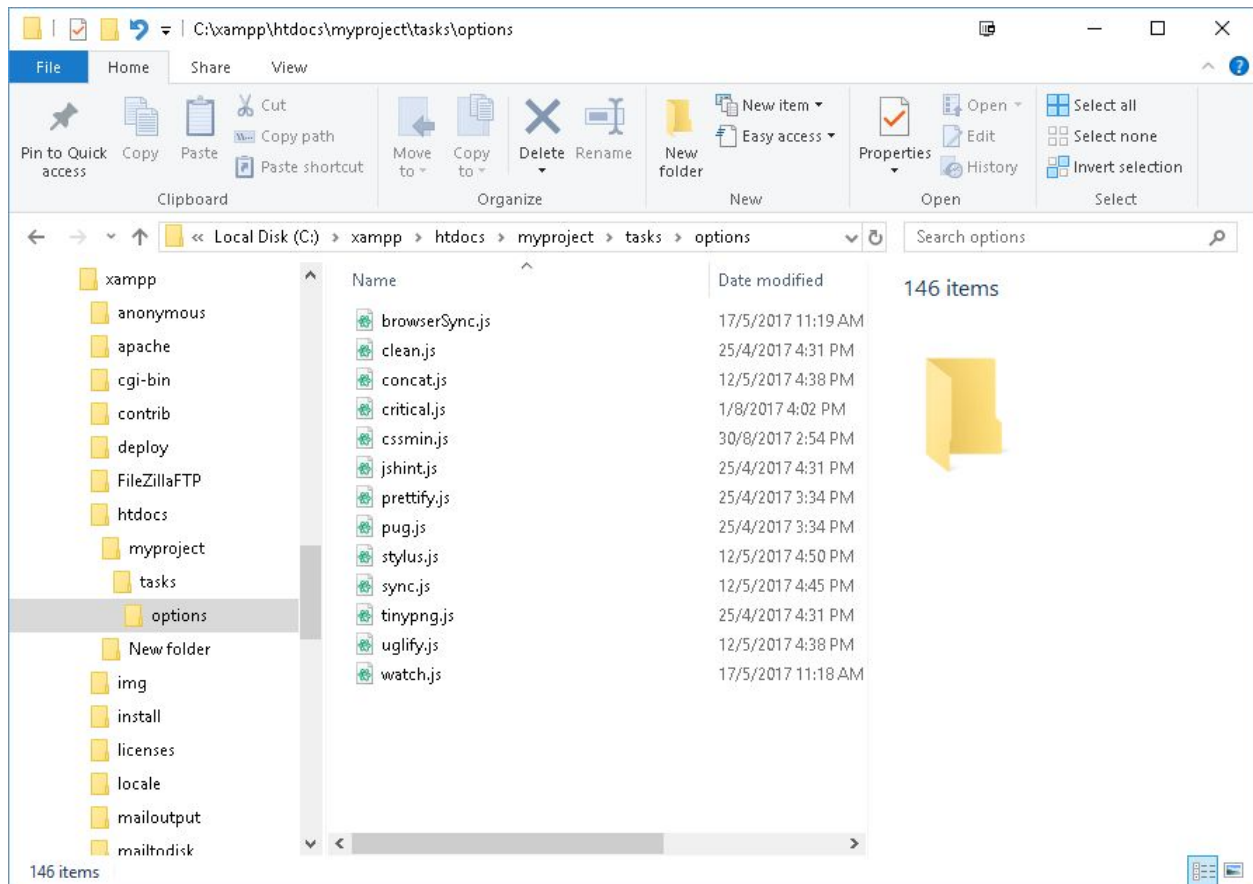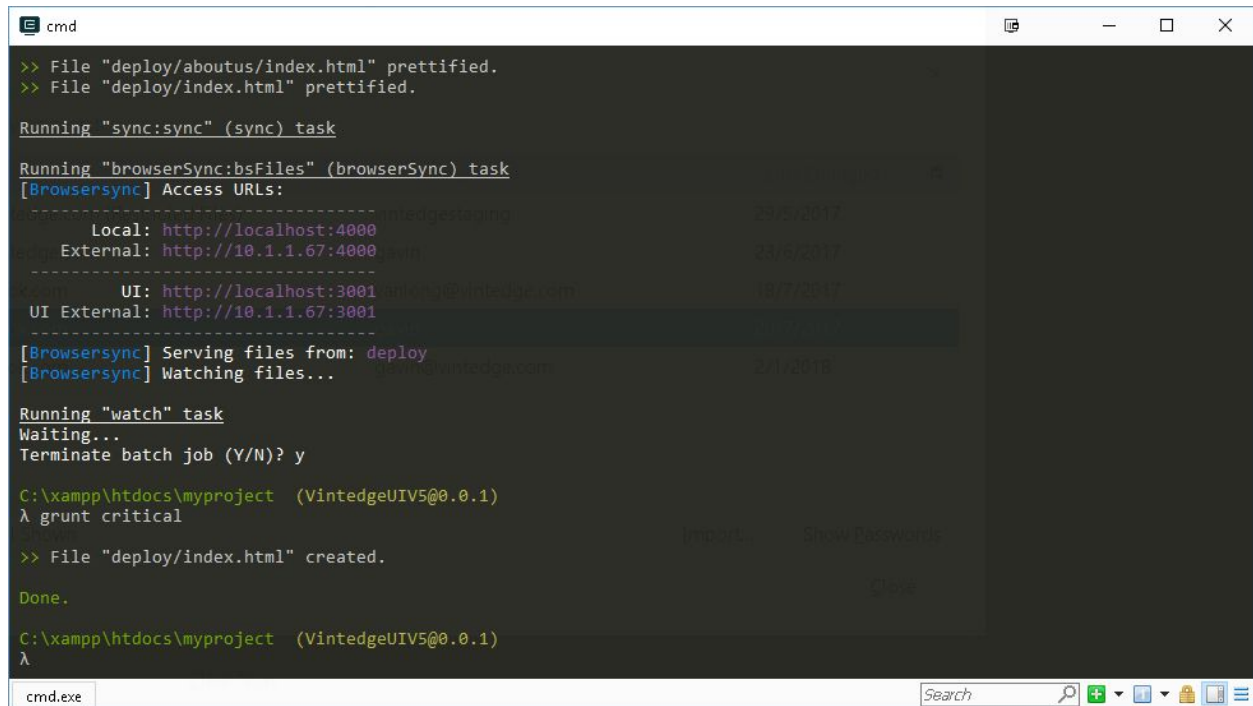
Add your newtask.js here

8. Grunt Critical

7a. Running grunt critical

https://www.smashingmagazine.com/2015/08/understanding-critical-css/

grunt critical