**Grunt workflow POC**

1. Create Project on GitHub
   1. <https://github.com/eshacker/grunt-and-minify-poc>
2. Clone and use node
   1. git clone git@github.com:eshacker/grunt-and-minify-poc.git && nvm use node
      1. it clones the repo first.
      2. it uses nvm to load node.
      3. nvm is node version manager.
      4. You probably would require to use https-url version instead of git-url for cloning.
   2. cd into the directory.
3. npm init
4. mkdir src && cd src && mkdir css && mkdir js && touch index.html && cd ..
5. git add . && git commit -m "Structure of the example application." && git log -n1
   1. You should see "Structure of the example application." as the last line of the output due to git log -n1
6. Fill up src/index.html, src/js/index.js, src/css/index.less
   1. use any data.
   2. get the app working.
7. Install grunt via node package manager
   1. Read <http://gruntjs.com/getting-started>
   2. npm install -g grunt-cli
   3. verify as follow
      1. grunt --version should print grunt-cli v0.1.13 where v0.1.13 is variable and might be different for you.
8. install grunt plugin for uglifying JS.
   1. <https://github.com/gruntjs/grunt-contrib-uglify>
   2. install with
      1. npm install grunt-contrib-uglify --save-dev
   3. Check status by running
      1. git status
      2. You should see a change in package.json file and a directory node\_modules created in the root of the repo.
   4. Create a .gitignore file in the root of the directory and add
      1. on a line
         1. node\_modules/
   5. Now check git status again, you shouldn’t see node\_modules.
      1. you though will see a .gitignore file.
   6. Create a Gruntfile.js
      1. Get the basic configuration from <http://gruntjs.com/getting-started>
      2. update the structure using your head.
   7. add this to Gruntfile.js
      1. grunt.loadNpmTasks('grunt-contrib-uglify');
   8. git add . && git commit -m “working js uglifier”
   9. You probably want to
      1. npm install grunt --save-dev
   10. Check for output using
       1. grunt
       2. You should see a build/ or dist/ directory in root of repo if everything is going right.
       3. Otherwise just follow the error.
9. Convert your CSS files to LESS files
10. Install grunt contrib less
    1. <https://github.com/gruntjs/grunt-contrib-less>
    2. npm install grunt-contrib-less --save-dev
    3. add this to Gruntfile.js
       1. grunt.loadNpmTasks('grunt-contrib-less');
    4. Make changes as you wish.
    5. Use compress option.
11. save changes in git repo.
12. Minify and copy html pages.
    1. Install
       1. npm install grunt-contrib-htmlmin --save-dev
    2. Update Gruntfile.js
       1. grunt.loadNpmTasks('grunt-contrib-htmlmin');
13. Of course you need to add htmlmin and less to the default task list and command grunt.
14. This POC/sample is complete. Time Taken: 2 hours 40 minutes.