**Creating a Gulp Project**

1. npm install gulp –g

# ... from within our project folder

1. $ npm init
2. npm install gulp --save-dev
3. Setup Your Folder Structure

My-Folder-structure

|- base/

|- fonts/

|- images/

|- js/-> custom.js..etc…

|- pages/-> about.html, contact.html

|- scss/

|-> layout/

|->> \_header.scss

|->> \_side-nav.scss

|->> \_footer.scss

|-> pages/

|->> \_index.scss

|->> \_about.scss

|->> \_contact.scss

|-> component/

|->> \_button.scss

|->> \_forms.scss

|->> \_navigation.scss

|->\_my-custom.scss

|-> \_responsive.scss

|-> \_variable.scss

|-> main.scss

|- index.html

- gulpfile.js

- node\_modules/

- package.json

Structure can be any according to you & your requerment..!!

CREATE A GULP FILE ::=> “gulpfile.js”

***CODE’S ARE::::::=======------🡪***

var gulp = require('gulp');

var rename = require('gulp-rename');

var autoprefixer = require('gulp-autoprefixer');

var minifycss = require('gulp-minify-css');

var sass = require('gulp-sass');

var cssnano = require('gulp-cssnano');

var concat = require('gulp-concat');

var htmlmin = require('gulp-htmlmin');

var connect = require('gulp-connect');

var imagemin = require('gulp-imagemin');

var uglify = require('gulp-uglify');

// var basemaps = require('gulp-sourcemaps');

var cache = require('gulp-cache');

var flatten = require('gulp-flatten');

var clean = require('gulp-clean');

var paths = {

css: ['base/scss/\*\*/\*.css'],

sass: ['base/scss/\*\*/\*.scss'],

others: ['base/\*.{ico,htaccess}'],

html: 'base/\*.html',

pages: 'base/pages/\*\*/\*.{html,js,css,min.js,min.css,gif,jpg,png,svg,ico,pdf,eot,svg,ttf,woff,woff2}',

libs: [],

custom: [

'base/js/\*\*/\*.js',

'base/js/custom.js'

],

assets: {

images: ['base/images/\*.{gif,jpg,png,svg,ico,pdf}', 'base/images/\*\*/\*.{gif,jpg,png,svg,ico,pdf}'],

fonts: ['base/fonts/\*\*/\*.{eot,svg,ttf,woff,woff2}']

},

build: 'www'

}

gulp.task('connect', function () {

connect.server({

root: 'www',

livereload: true,

// host: '192.168.1.106',

port: 1111

});

});

gulp.task('html', function () {

gulp.src(paths.html)

//HTML MINIFY

.pipe(htmlmin({

collapseWhitespace: true

}))//HTML MINIFY /-End

.pipe(gulp.dest(paths.build))

.pipe(connect.reload());

});

gulp.task('pages', function () {

gulp.src(paths.pages)

//HTML MINIFY

.pipe(htmlmin({

collapseWhitespace: true

}))//HTML MINIFY /-End

.pipe(gulp.dest(paths.build + '/pages'))

.pipe(connect.reload());

});

gulp.task('css', function () {

gulp.src(paths.sass)

.pipe(sass().on('error', sass.logError))

.pipe(autoprefixer('last 2 versions'))

.pipe(gulp.dest(paths.build + '/css'))

.pipe(rename({ suffix: '.min' }))

.pipe(minifycss({ keepSpecialComments: 0 }))

.pipe(gulp.dest(paths.build + '/css'))

.pipe(connect.reload());

});

gulp.task('copyCss', function () {

gulp.src(paths.css)

//.pipe(uglify())

//.pipe(flatten())

.pipe(gulp.dest(paths.build + '/css'))

});

gulp.task('others', function () {

gulp.src(paths.others)

.pipe(gulp.dest(paths.build))

.pipe(connect.reload());

});

gulp.task('libs', function () {

gulp.src(paths.libs)

.pipe(concat('js/libs.js'))

.pipe(cache.clear())

.pipe(gulp.dest(paths.build))

.pipe(uglify())

.pipe(flatten())

.pipe(rename({ suffix: '.min' }))

.pipe(gulp.dest(paths.build + "/js"))

.pipe(connect.reload());

});

gulp.task('js', function () {

return gulp.src(paths.custom)

//.pipe(concat('js/custom.js'))

.pipe(cache.clear())

.pipe(gulp.dest(paths.build + "/js"))

.pipe(uglify())

.pipe(flatten())

.pipe(rename({ suffix: '.min' }))

.pipe(gulp.dest(paths.build + "/js"))

.pipe(connect.reload());

});

gulp.task('imgs', function () {

gulp

.src(paths.assets.images)

.pipe(cache(imagemin({

interlaced: true,

progressive: true,

optimizationLevel: 5,

svgoPlugins: [{ removeViewBox: true }]

})))

//.pipe(flatten({ includeParents: 1}))

.pipe(gulp.dest(paths.build + "/images"));

});

gulp.task('fonts', function () {

gulp

.src(paths.assets.fonts)

.pipe(cache.clear())

//.pipe(flatten())

.pipe(gulp.dest(paths.build + "/fonts"));

});

gulp.task('clean', function () {

return gulp.src(paths.build, { read: false })

.pipe(clean());

});

gulp.task('default', ['connect', 'copyCss', 'css', 'others', 'html', 'pages', 'libs', 'fonts', 'js', 'imgs'], function (cb) {

gulp.watch(paths.sass, ['css']),

gulp.watch(paths.css, ['copyCss']),

gulp.watch(paths.others, ['others']),

gulp.watch(paths.html, ['html']),

gulp.watch(paths.pages, ['pages']),

gulp.watch(paths.libs, ['libs']),

gulp.watch(paths.custom, ['js']),

gulp.watch(paths.assets.images, ['imgs']),

gulp.watch(paths.assets.fonts, ['fonts'])

});

***Package need to install***

# 1) [gulp-rename](https://www.npmjs.com/package/gulp-rename)

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**gulp-rename is a**[**gulp**](https://github.com/wearefractal/gulp)**plugin to rename files easily.**

**npm install gulp-rename**

# 2) [gulp-autoprefixer](https://www.npmjs.com/package/gulp-autoprefixer)

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**Prefix CSS with**[**Autoprefixer**](https://github.com/postcss/autoprefixer)

**npm install --save-dev gulp-autoprefixer**

# 3) [gulp-minify-css](https://www.npmjs.com/package/gulp-minify-css)

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**This package has been deprecated. Please use**[**gulp-clean-css**](https://github.com/scniro/gulp-clean-css)**instead.**

**npm install gulp-minify-css**

# 4) [gulp-sass](https://www.npmjs.com/package/gulp-sass)

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**Sass plugin for**[**Gulp**](https://github.com/gulpjs/gulp)**.**

**npm install gulp-sass --save-dev**

# 5) [gulp-cssnano](https://www.npmjs.com/package/gulp-cssnano)

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**Minify CSS with**[**cssnano**](https://github.com/ben-eb/cssnano)**.**

**npm install gulp-cssnano --save-dev**

# 6) [gulp-concat](https://www.npmjs.com/package/gulp-concat)

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**npm install --save-dev gulp-concat**

# 7) [gulp-htmlmin](https://www.npmjs.com/package/gulp-htmlmin)

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**gulp plugin to minify HTML.**

**npm install --save gulp-htmlmin**

# 8) [gulp-connect](https://www.npmjs.com/package/gulp-connect)

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**Gulp plugin to run a webserver (with LiveReload)**

**npm install --save-dev gulp-connect**

# 9) [gulp-imagemin](https://www.npmjs.com/package/gulp-imagemin)

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**Minify PNG, JPEG, GIF and SVG images with**[**imagemin**](https://github.com/imagemin/imagemin)

**npm install --save-dev gulp-imagemin**

# 10) [gulp-uglify](https://www.npmjs.com/package/gulp-uglify)

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**Minify JavaScript with UglifyJS2.**

**npm install --save-dev gulp-uglify**

# 11) [gulp-cache](https://www.npmjs.com/package/gulp-cache)

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**npm install gulp-cache**

# 12) [gulp-flatten](https://www.npmjs.com/package/gulp-flatten)

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**Remove or replace relative path for files (gulp v3).**

**npm install gulp-flatten**

# 13) [gulp-clean](https://www.npmjs.com/package/gulp-clean)

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**Removes files and folders.**

**npm install --save-dev gulp-clean**

RUN COMMEND ON CMD —“**gulp**”

THANKS