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**Grunt Installation and Configuration**

**Guide**

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# Introduction

Grunt is javascript task runner.Grunt and Grunt plugins are installed and managed via [npm](https://npmjs.org/), the [Node.js](http://nodejs.org/) package manager.It tell what you want to do and in what order you want them done.

# prerequiste

**NodeJS:**

**Node**.js is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications. **Node**.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

**NPM :**

**npm** is a [package manager](http://en.wikipedia.org/wiki/Package_manager) for JavaScript, and is the default for [Node.js](http://en.wikipedia.org/wiki/Node.js).

# installation and configuration

## **3.1 Grunt and Grunt Plugins Installation**

Let's get started by installing Grunt's command line interface (CLI) globally by issuing the following command:

**npm install -g grunt-cli**

You might have to use sudo npm install -g grunt-cli (if you are on Linux, OSX, BSD, etc.) or run your command as Administrator on a Windows-based system.

After this install grunt in your package.json directory using

npm install grunt --save-dev

This will install grunt task runner and add it to [devDependencies](https://npmjs.org/doc/json.html" \l "devDependencies) section of your package.json.

The same can be done for gruntplugins and other node modules. As seen in the following example installing the JSHint task module:

npm install grunt-contrib-jshint --save-dev

## **3.2 Grunt Configuration**

Create a new Grunt configuration file called Gruntfile.js at the root level of your project and add the following sample configuration:

***module.exports = function(grunt) {***

***grunt.initConfig({***

***pkg: grunt.file.readJSON('package.json'),***

***concat: {***

***options: {***

***separator: ';'***

***},***

***dist: {***

***src: ['./bin/\*.js', './routes/employees.js','app.js'],***

***dest: 'concations.js'***

***}***

***},***

***uglify: {***

***options: {***

***banner: 'This is Uglifed File for the project'***

***},***

***dist: {***

***files: {***

***'dist/<%= pkg.name %>.min.js': ['<%= concat.dist.dest %>']***

***} }},***

***jshint: {***

***files: ['./models/employee.js','gruntfile.js','./routes/\*.js','app.js','./bin/www.js',],***

***options: {***

***"maxerr": 20,***

***"maxparams": 15,***

***"maxdepth": 20,***

***reporter: require('jshint-html-reporter'),***

***reporterOutput: './JSHintReport/jshint-report.html'***

***}}***

***});***

***grunt.loadNpmTasks('grunt-contrib-uglify');***

***grunt.loadNpmTasks('grunt-contrib-jshint');***

***grunt.loadNpmTasks('grunt-contrib-concat');***

***grunt.registerTask('default', ['concat','uglify',’jshint’]);***

***};***

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## **3.3 Running grunt task**

Execute our Grunt task by simply issuing grunt in your terminal and it should display an output similar to the following:

D:\projects\POC\nodeJSCI>grunt

Running "concat:dist" (concat) task

File concations.js created.

Running "uglify:dist" (uglify) task

>> 1 file created.

Running "jshint:test" (jshint) task

>> 1 file lint free.