

Node Package Manager

Introduction

NPM is

- > a package manager for JavaScript
- > the default package manager for Node.js

NPM consists of a command line client (npm) & an online database of public and paid-for private packages (npm registry)

Introduction

 A plethora of Node.js libraries and applications are published on npm, and many more are added every day. Search here: (https://www.npmjs.com)

Npm command line interface comes installed with node.js

 NPM allows users to consume and distribute JavaScript modules that are available on the registry.

Introduction

 Once you have a package you want to install, it can be installed with a single command-line command.

 We can download all npm public software packages without any registration or logon.

 All popular libraries and frameworks are on NPM! For example react and express.

- NPM: stands for Node Package Manager
- Npm is the world's largest software registry
- Npm command line interface comes installed with node.js
- is an online repository for the publishing of open-source Node.js projects

 second, it is a command-line utility for interacting with said repository that aids in package installation, version management, and dependency management. npm packages that can be installed are:

- Regular/ simple dependencies
 - Packages that contain some code that we can include in our code, like express the node framework that we will use -> our code relies on them
- development dependencies: tools for development-> our code does not rely on them. like a debugger tool!

We may install dependencies in one folder, for a single project only or globally!

Lets check https://www.npmjs.com/package/nodemon

Package.json file

In visual studio lets execute:

npm init (& fill info required)

- This command will create a Package.json file which is a configuration file
 - is a JSON file that lives in the root directory of your project
 - it holds important information about the project.
 - it contains human-readable metadata about the project (like the project name and description) as well as functional metadata like the package version number and a list of dependencies required by the application.

Package.json file

 node_modules folder=> like a cache for the external modules that your project depends upon.

 When you npm install them, they are downloaded from the web and copied into the node_modules folder and Node.js is trained to look for them there when you import them (without a specific path).

When sharing a project we do not have to share node-modules folder. If we
just execute npm install in the project directory it will install everything!
Because it reads the package.json file!

nodemon

Nodemon: εργαλείο που βοηθάει στην ανάπτυξη εφαρμογών Node.js,

επιτρέποντας την αυτόματη επανεκκίνηση της εφαρμογής όταν ανιχνεύει αλλαγές στα αρχεία της πηγής. Αυτό διευκολύνει την ανάπτυξη και τον έλεγχο των εφαρμογών, καθώς οι αλλαγές εφαρμόζονται άμεσα χωρίς να χρειάζεται ο προγραμματιστής να επανεκκινήσει χειροκίνητα την εφαρμογή.

Πώς να Εγκαταστήσετε το nodemon

- Τοπική Εγκατάσταση (για ένα έργο) npm install nodemon --save-dev
- Καθολική Εγκατάσταση (για χρήση σε πολλά έργα) npm install -g nodemon

nodemon app.js



To be continued...