

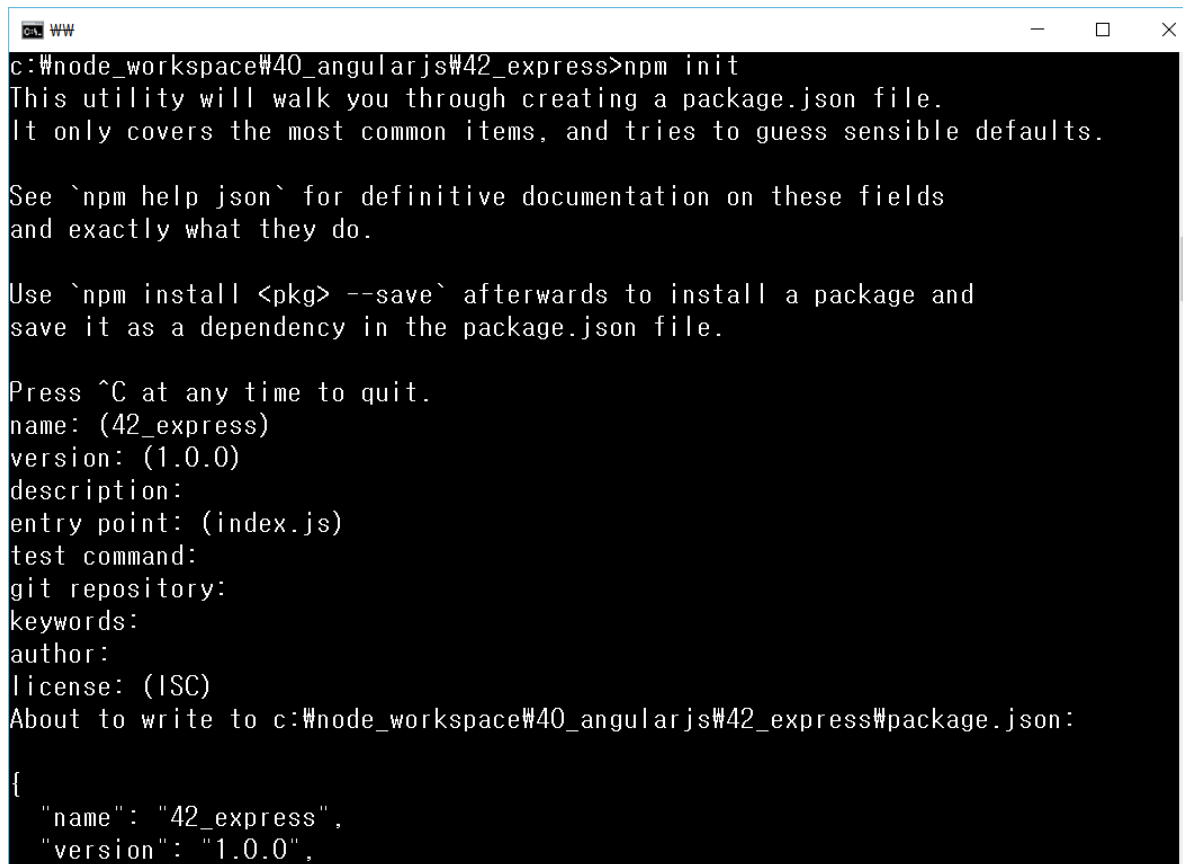
## MEAN 개발환경구성



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# Express Generator

- Express Generator는 어플리케이션의 골격, 뼈대를 자동으로 만들어주는 생성 도구이다.
- 먼저 npm init로 package.json 파일을 생성한다.



```
c:\node_workspace\40 angularjs\42_express>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help json` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg> --save` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
name: (42_express)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to c:\node_workspace\40 angularjs\42_express\package.json:

{
  "name": "42_express",
  "version": "1.0.0",
```

# Express Generator

- `npm install express-generator --save`로 express-generator를 설치한다.

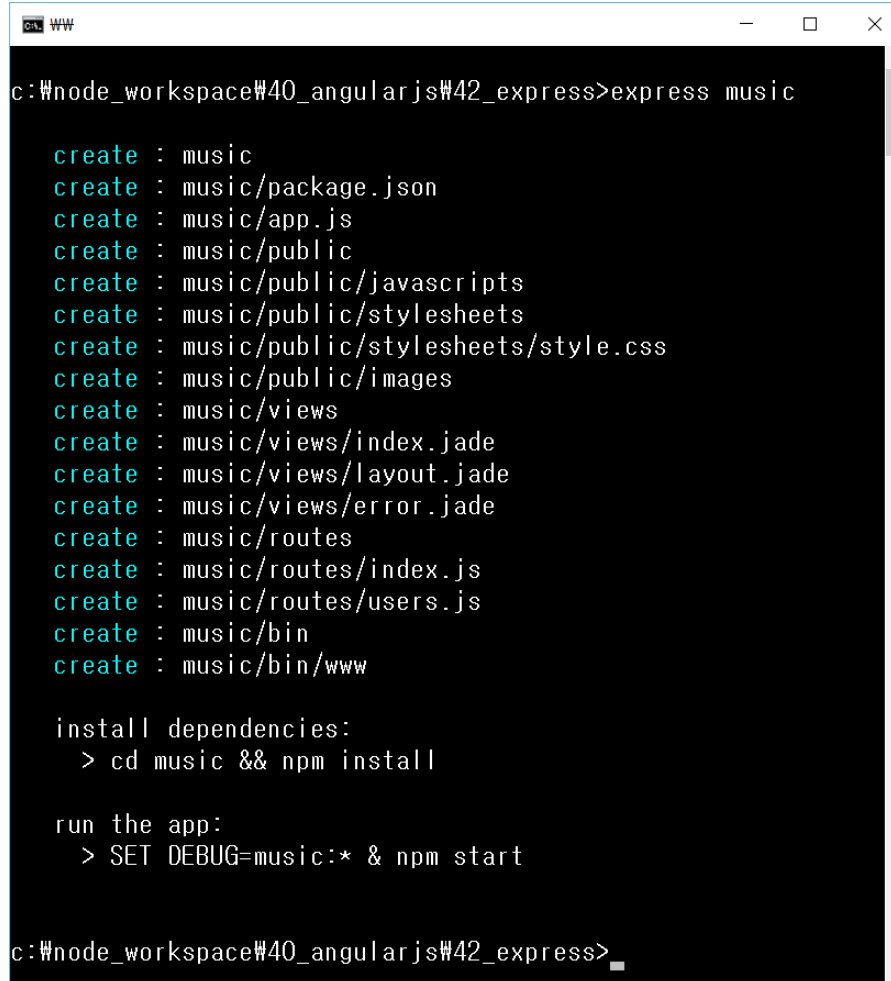


```
c:\#node_workspace#40_angularjs#42_express>npm install express-generator --save
npm WARN package.json 42_express@1.0.0 No description
npm WARN package.json 42_express@1.0.0 No repository field.
npm WARN package.json 42_express@1.0.0 No README data
npm WARN prefer global express-generator@4.13.4 should be installed with -g
express-generator@4.13.4 node_modules#express-generator
├─── sorted-object@2.0.0
├─── commander@2.7.1 (graceful-readlink@1.0.1)
└─── mkdirp@0.5.1 (minimist@0.0.8)

c:\#node_workspace#40_angularjs#42_express>
```

# Express Generator

- express 어플리케이션명을 실행하면 자동으로 어플리케이션명에 해당하는 폴더가 만들어지고, 아래와 같은 구조로 폴더 및 파일들이 자동 생성된다.



```
c:\#node_workspace#40_angularjs#42_express>express music

create : music
create : music/package.json
create : music/app.js
create : music/public
create : music/public/javascripts
create : music/public/stylesheets
create : music/public/stylesheets/style.css
create : music/public/images
create : music/views
create : music/views/index.jade
create : music/views/layout.jade
create : music/views/error.jade
create : music/routes
create : music/routes/index.js
create : music/routes/users.js
create : music/bin
create : music/bin/www

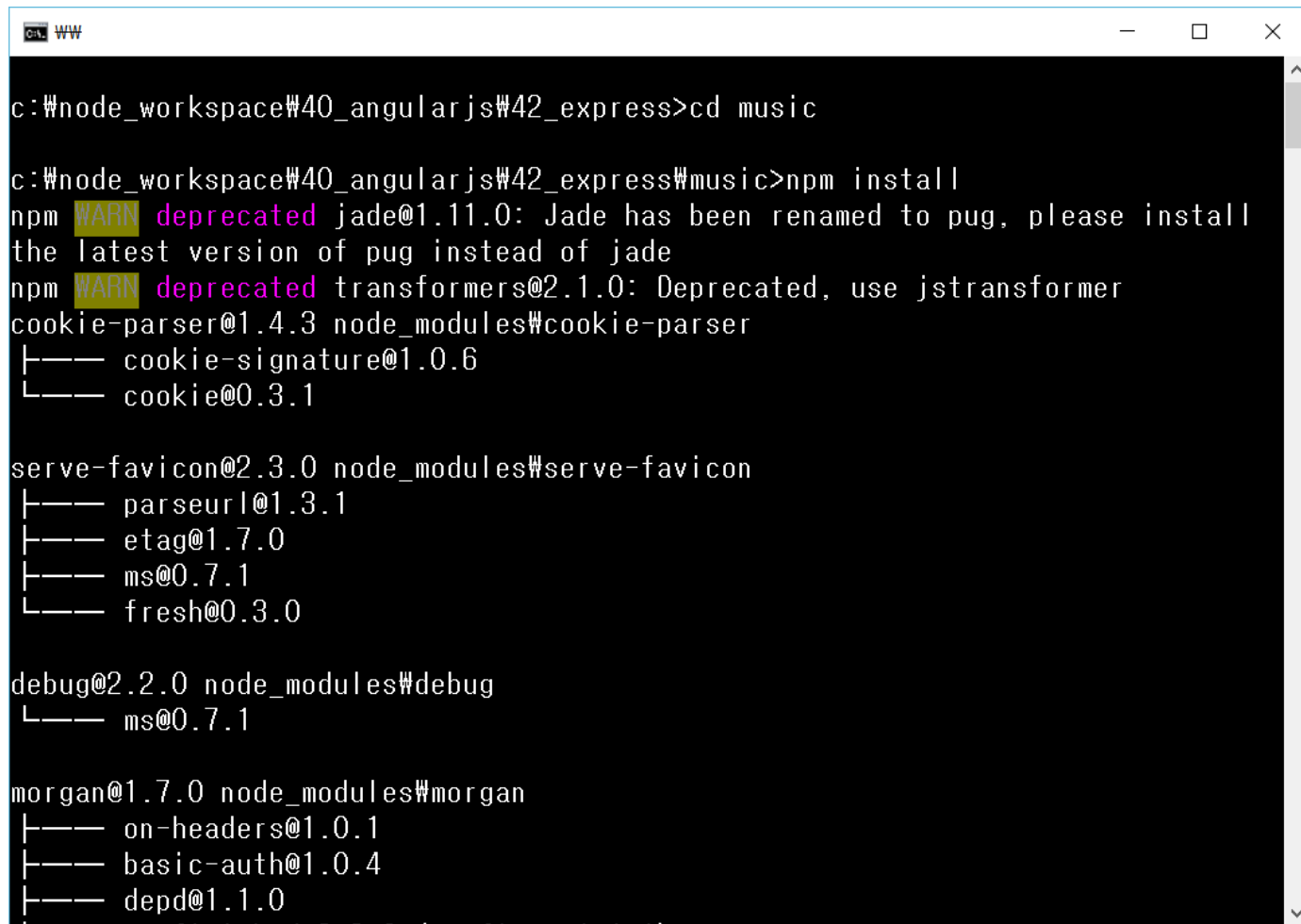
install dependencies:
> cd music && npm install

run the app:
> SET DEBUG=music:* & npm start

c:\#node_workspace#40_angularjs#42_express>
```

# Express Generator

- cd 어플리케이션명 으로 디렉토리 이동 후 npm install로 의존성 모듈들을 전체 설치한다.



```
c:\#node_workspace#40_angularjs#42_express>cd music

c:\#node_workspace#40_angularjs#42_express#music>npm install
npm WARN deprecated jade@1.11.0: Jade has been renamed to pug, please install
the latest version of pug instead of jade
npm WARN deprecated transformers@2.1.0: Deprecated, use jstransformer
cookie-parser@1.4.3 node_modules#cookie-parser
├── cookie-signature@1.0.6
└── cookie@0.3.1

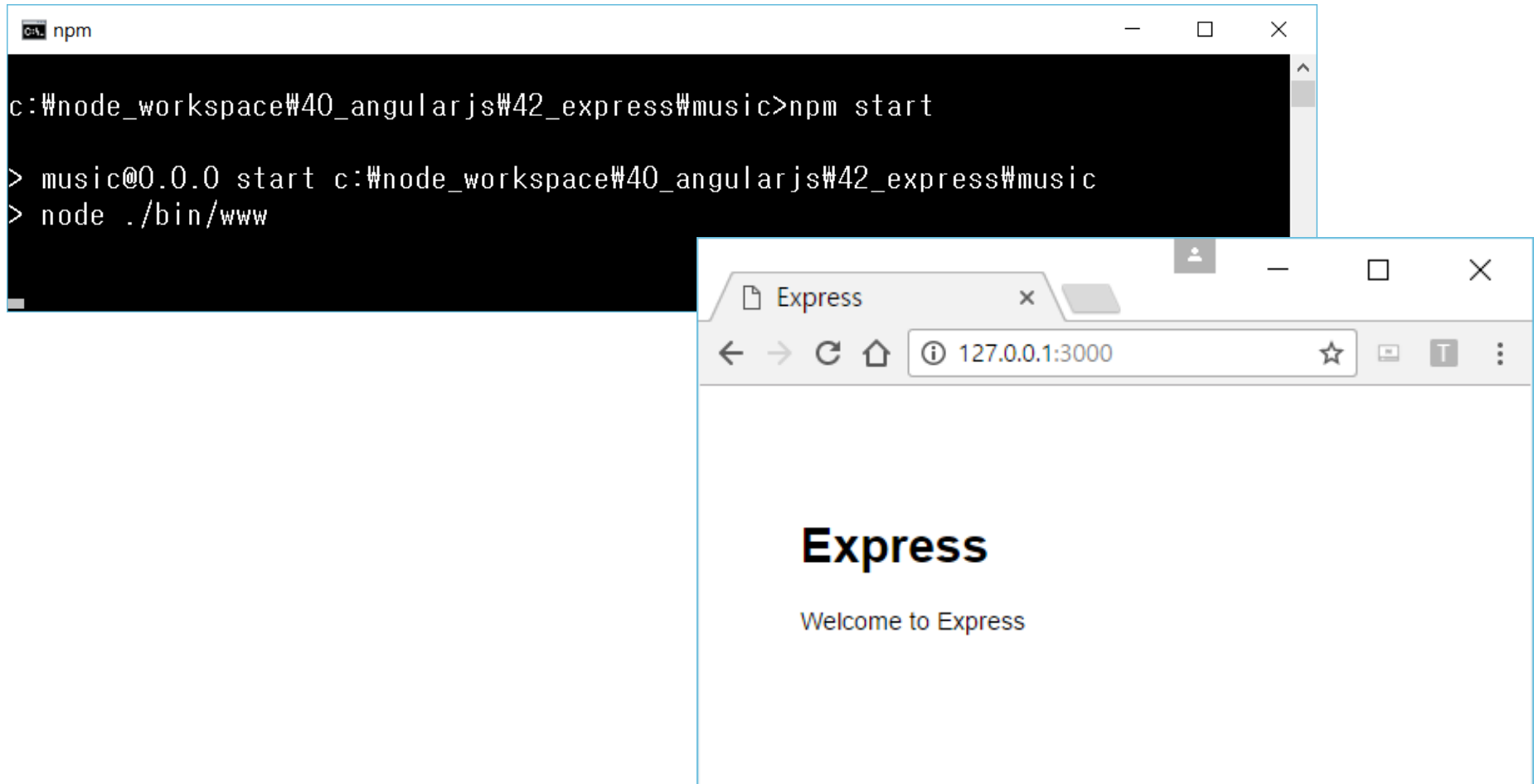
serve-favicon@2.3.0 node_modules#serve-favicon
├── parseurl@1.3.1
├── etag@1.7.0
├── ms@0.7.1
└── fresh@0.3.0

debug@2.2.0 node_modules#debug
└── ms@0.7.1

morgan@1.7.0 node_modules#morgan
├── on-headers@1.0.1
├── basic-auth@1.0.4
└── depd@1.1.0
```

# Express Generator

- npm start로 어플리케이션을 실행한다.
- 127.0.0.1:3000으로 접근 시 아래와 같은 창이 보이면 생성 성공!!



# Yeoman, Angular-seed

- 요맨 (Yeoman) : 3가지 도구를 모아놓은 워크플로우 관리 도구
  - ✓ Yo : 수많은 생성기를 제공하는 스캐폴딩 도구
  - ✓ Grunt/Gulp : 테스트, 빌드 등의 태스크를 실행하기 위한 도구
  - ✓ Npm/Bower : 의존성을 관리하기 위한 도구
  - ✓ <http://yeoman.io/>



- Angular-seed : AngularJS 웹 어플리케이션을 위한 skeleton 제공
  - ✓ 아래 URL에서 다운로드 받거나 git으로 clone
  - ✓ <https://github.com/angular/angular-seed>
  - ✓ `git clone https://github.com/angular/angular-seed.git`