**CREATE NODEJS PROJECT**

1. npm init -y
2. Install all necessary modules
3. npm i ***module name***

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| **NAME** | **DESCRIPTION** |
| express | Framework |
| morgan | Logging request details |
| cors | In other words, ***CORS*** is a browser security feature that restricts cross-origin HTTP requests with other servers and specifies which domains access your resources. |
| reflect-metadata | ***reflect-metadata*** Allows you to do runtime reflection on types.  The native (non reflect-metadata) version of type inference is much poorer than reflect-metadata and consists only of ***typeof*** and ***instanceof.*** |
| bcryptjs | This module enables storing of passwords as hashed passwords instead of plaintext. |
| cookie-parser | ***cookie-parser*** will parse the Cookie header and handle cookie separation and encoding, maybe even decrypt it! |
| Dot-env | The ***dotenv*** is a zero-dependency module that loads environment variables from a *.env* file into *process.env.* Storing configuration in the environment separate from code is based on the Twelve-Factor App methodology |

1. If you are using typescript
   1. npm i typescript -D Install typescript as development dependency
   2. npx tsc –init tsc: Typescript container- Create file to tell compiler how to work
   3. Go to tsconfig.json file and search for:
      1. rootDir – uncomment and set as: “./src” or name folder source files
      2. outDir – uncomment and set name to where all compiled files are going to be
   4. npx tsc
2. Install module to compile automatically (nodemon, ts node)
   1. npm i ts-node-dev -D install as dependency of development
3. Go to package.json file and set in scripts section:

"dev":"ts-node-dev --respawn src/index.ts"

And use npm run dev

1. Install more modules
   1. npm i express morgan cors
   2. npm i @types/express @types/morgan @types/cors -D Add data types to typescript
   3. npm install typeorm --save Install typeORM
      1. npm install reflect-metadata –save
      2. npm install @types/node --save-dev
   4. npm install pg --save Install database in this case PostgreSQL
   5. In tsconfig.json uncomment – This is complementary of **reflect-metadata** "emitDecoratorMetadata": true, "experimentalDecorators": true,

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