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Nestjs and mysyl in 5 Minutes

A quick tutorial for building scalable Node.js applications







T In this tutorial I will show you how easy is to setup and execute a Netsjs project using the following tech stack:

- **Nestjs** (Modules, Controllers, Repositories , TypeORM and Entities)
- Node.js & NPM: (https://nodejs.org/en/download/)
- $\bullet \ \ \textbf{Mysql 5.7:} \ (\underline{\text{https://dev.mysql.com/downloads/mysql/5.7.html}})$
- Vscode: (https://code.visualstudio.com/download)

Why Nest js? - Issue #693 - nestjs/nest

Whats Different about nest to another frameworks? Why we have to use nest.js? Please say your opinion.

aithub.com



Install and create Nestjs project

npm install -g typescript npm install -g @nestjs/cli

```
★ Creating your Nest project...

We have to collect additional information:

? description: description
? version: 0.0.0
? author:
Thank you for your time!
```

nest new my-nest-project c:\\> cd my-nest-project

Open "my-nest-project" in vscode with code . command

Project Structure

- node modules
- 4 656
- TS app.controller.spec.ts
- TS app.controller.ts
- TS app.module.ts
- TS app.service.ts
- TS main.ts
- TS app.e2e-spec.ts
- {} jest-e2e.json
- **■** .prettierrc
- {} nest-cli.json
- {} nodemon-debug.json
- {} nodemon.json
- {} package.json
- README.md
- {} tsconfig.build.json
- {} tsconfig.json
- {} tsconfig.spec.json
- {} tslint.json

- node_modules: include the packages modules
- src: include the app source files
- test: end-to-end test app
- nest-cli,json: The root level of an Netsjs workspace provides workspace-wide and projectspecific configuration defaults for build and development tools provided by the Nestjs. Path values given in the configuration are relative to the root workspace folder.
- packge.json: lists the packages your project depends on.

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Module, Service and Controller Meaning:

Modules — Architecture

Every Nestjs app has at least one <u>@Module()</u> class — root module. The root <u>@Module()</u> for an app is so named because it can include child <u>@Module()</u> in A hierarchy of any depth.

The most important properties are as follows:

- imports: other modules whose exported classes are needed by component templates declared in this Module.
- controllers: the set of controllers which have to be created.
- providers: creators of <u>services</u> that this NgModule contributes to the global collection of services; they become accessible in all parts of the app.
- **exports:** the subset of declarations that should be visible and usable in the *component templates* of other Modules.

Services

Service is a layer category encompassing any value, function, or feature that an app needs. A service is typically a class with a narrow, well-defined purpose. It should do something specific and do it well.

Controllers

A controller is a class that handles HTTP requests. The public methods of the Controller are called action methods or simply actions. When the Nestjs Framework receives a request, it routes the request to an action.

To determine which action to invoke, the framework uses a routing table.

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Let's Get Started

Create users module, service and controller.

```
nest g module users
nest g service users
nest g controller users
nest g class users/user.entity
```



In this section we'll not use spec file.

Installing Mysql And typeORM

```
npm install --save @nestjs/typeorm typeorm mysql Tophighlight
```

Time to write some code!

• Open user.entity.ts file and Type

```
25
26 async deleteUser(user: User) {
27 this.usersRepository.delete(user);
28 }
29 }
users.service.ts hosted with ♥ by GitHub view raw
```

• Open users.controller.ts and type

```
13
14
15
        @Post()
16
        create(@Body() user: User) {
17
          return this.service.createUser(user);
18
19
20
21
        update(@Body() user: User) {
22
          return this.service.updateUser(user);
23
24
25
        @Delete(':id')
26
        deleteUser(@Param() params) {
27
          return this.service.deleteUser(params.id);
28
29 }
users.controller.ts hosted with 🎔 by GitHub
                                                                                      view raw
```

• Create ormconfig.json file in the root project with the following attributes

```
"type": "mysql",
  "host": "localhost",
  "port": 3306,
  "username": "root",
  "password": "root",
  "database": "my_nestjs_project",
  "entities": ["src/**/**.entity{.ts,.js}"],
  "synchronize": true
}
```

• Open users.module.ts file and it looks like

```
10 })
11 export class AppModule {}
app.module.ts hosted with ♥ by GitHub view raw
```

. . .

Open terminal in vscode and run

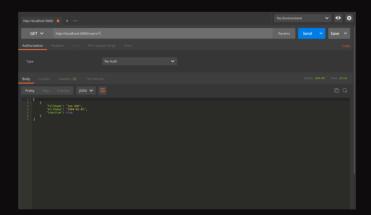
Nest compilation

Testing via POSTMAN

• Create User



• Get User by id



Conclusion

We made a good progress in this very first part of building Nestjs application. We got most of the architecture of Nestjs decisions.

My ko-fi



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