

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Бэк-энд разработка

Отчет

Лабораторная работа 1

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Задача

Нужно написать свой boilerplate на express + sequelize / TypeORM + typescript.

Должно быть явное разделение на: - модели - контроллеры - роуты - сервисы для работы с моделями

Ход работы

Инициализируем модуль

```
npm init
```

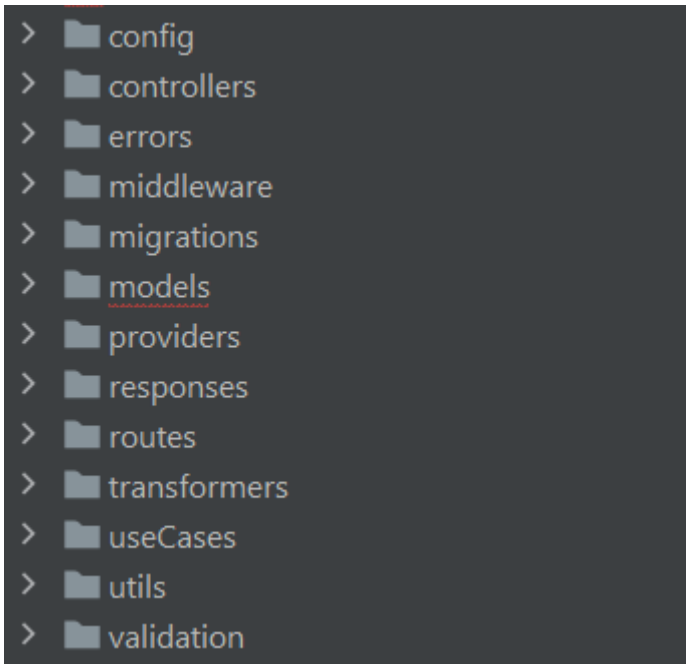
Установим зависимости

```
npm install express sequelize sequelize-typescript sequelize-cli sqlite3  
@types/express @types/node @types/sequelize typescript ts-node nodemon dotenv  
express-validator bcrypt jsonwebtoken cookie-parser
```

Создадим файл tsconfig.json:

```
{  
  "compilerOptions": {  
    "strictPropertyInitialization": false,  
    "experimentalDecorators": true,  
    "emitDecoratorMetadata": true,  
    "target": "es2016",  
    "module": "commonjs",  
    "baseUrl": "src",  
    "esModuleInterop": true,  
    "forceConsistentCasingInFileNames": true,  
    "strict": true,  
    "skipLibCheck": true  
  }  
}
```

1. Общая структура проекта:



API

node / users / index

Save ...

GET localhost:4000/users Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

<input checked="" type="checkbox"/>	Host ①	<calculated when request is sent>	
<input checked="" type="checkbox"/>	User-Agent ①	PostmanRuntime/7.28.4	
<input checked="" type="checkbox"/>	Accept ①	*/*	
<input checked="" type="checkbox"/>	Accept-Encoding ①	gzip, deflate, br	
<input checked="" type="checkbox"/>	Connection ①	keep-alive	

Body Cookies (2) Headers (7) Test Results

Status: 200 OK Time: 51 ms Size: 1.94 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 2,
3   "firstName": "Nikita",
4   "lastName": "KEKEKKEKE",
5   "email": "mail@mail.com",
6   "tests": [
7     {
8       "kek": "lol"
9     },
10    {
11      "kek": "lol"
12    }
13  ]
14 },
15 {
16   "id": 3,
17   "firstName": "Nikita",
```

Bootcamp Runner Trash

GETlocalhost:4000/users/2

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		

Body

Cookies (2)

Headers (7)

Test Results

Status: 200 OKTime: 15 msSize: 350 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    "id": 2,
3    "firstName": "Nikita",
4    "lastName": "KEKEKKEKE",
5    "email": "mail@mail.com",
6    "tests": [
7      {
8        "kek": "lol"
9      },
10     {
11       "kek": "lol"
12     }
13   ]
14 }
```

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Runner

Trash

node / users / destroy

Save

...

DELETE

localhost:4000/users/2

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookie

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Ed
	Key	Value	Description		

Body

Cookies (2)

Headers (7)

Test Results

Status: 200 OKTime: 1560 msSize: 256 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    "detail": "Success."
3  }
```

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Trash

POST

localhost:4000/auth/register ...

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

6

1

2

3

4

5

6

Body

Cookies (2)

Headers (7)

Test Results

Status: 200 OK

Time: 107 ms

Size: 350 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Bootcamp

Runner

Trash

node / auth / me

Save

...

...

GET

localhost:4000/auth/me

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body

Cookies (2)

Headers (7)

Test Results

Status: 200 OK

Time: 21 ms

Size: 349 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1

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Bootcamp

Runner

Trash

The screenshot shows a REST client interface with the following details:

- URL:** `localhost:4000/auth/logout`
- Method:** `POST`
- Body:** This request does not have a body.
- Response:**
 - Status:** 200 OK
 - Time:** 37 ms
 - Size:** 394 B
 - Body:** `{"detail": "ok"}`

Ход работы

В данной лабораторной работе удалось написать boilerplate проект с использованием typescript + sequelize + express. Полученный проект можно использовать для создания следующих проектов с таким же стеком