

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Бэк-энд разработка

Отчет

Практическая работа

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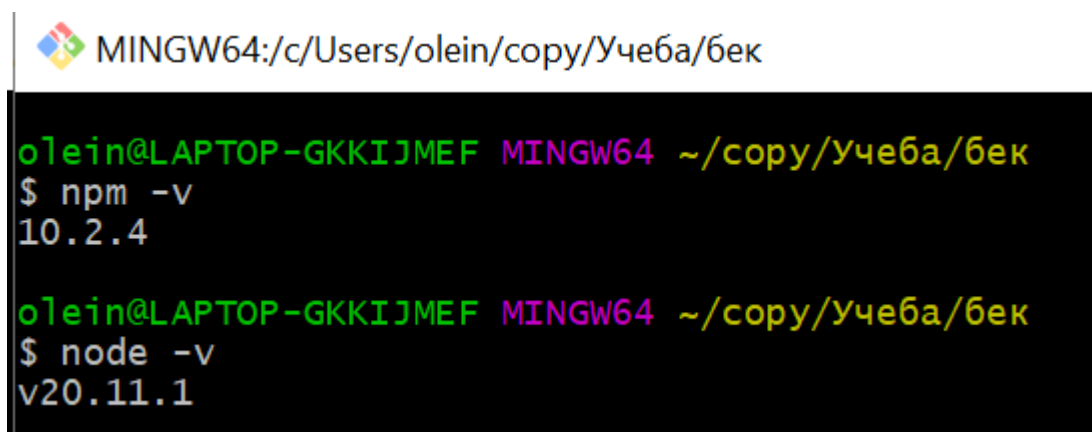
2024 г.

Задача

- Установка npm (10.2.4), node.js (18.19.1 / 20.11.1)
- Инициализация npm-пакета
- Установка express
- Удаление express/попытка его обновить
- Написание кастомной команды для npm, чтобы можно удалить express командой “npm run rme”

Ход работы

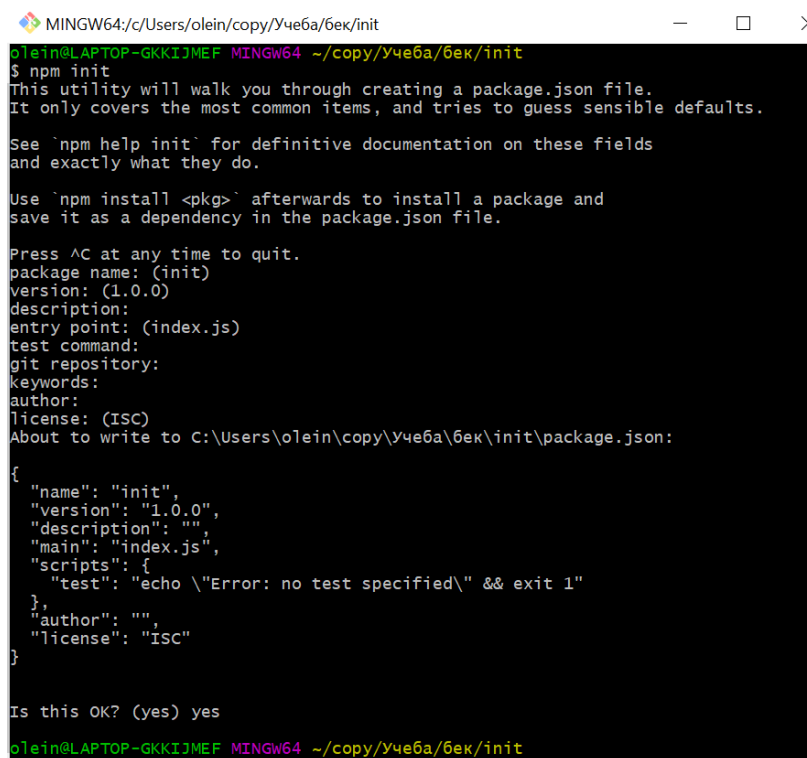
Установка npm (10.2.4), node.js (18.19.1 / 20.11.1)



```
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек
$ npm -v
10.2.4

olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек
$ node -v
v20.11.1
```

Инициализация npm-пакета



```
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ 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 init` for definitive documentation on these fields
and exactly what they do.

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

Press ^C at any time to quit.
package name: (init)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Users\olein\copy\Учеба\бек\init\package.json:
{
  "name": "init",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}

Is this OK? (yes) yes
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
```

Установка express

```
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ npm i express

added 64 packages, and audited 65 packages in 4s

12 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$
```

```
{ } package.json X
1  {
2    "name": "init",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "",
10   "license": "ISC",
11   "dependencies": {
12     "express": "^4.18.3"
13   }
14 }
15
```

Удаление express/попытка его обновить

```
{ } package.json X
1  {
2    "name": "init",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "",
10   "license": "ISC"
11 }
12
```

```
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ npm uninstall express

removed 64 packages, and audited 1 package in 616ms

found 0 vulnerabilities

olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$
```

```
{ } package.json X
1  {
2    "name": "init",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "",
10   "license": "ISC"
11 }
12
```

```
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ npm update express

up to date, audited 1 package in 408ms

found 0 vulnerabilities

olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$
```

Обновить существующий пакет

```
package.json X
1 {
2   "name": "init",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "author": "",
10  "license": "ISC",
11  "dependencies": {
12    "express": "^4.18.3"
13  }
14 }
15
MINGW64:/c/Users/olein/copy/Учеба/бек/init
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ npm i express

added 64 packages, and audited 65 packages in 1s

12 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ npm update express

up to date, audited 65 packages in 844ms

12 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

Написание кастомной команды для npm, чтобы можно удалить express командой “npm run rme”

```
package.json X
1 {
2   "name": "init",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1",
8     "rme": "npm uninstall express"
9   },
10  "author": "",
11  "license": "ISC"
12 }
13
MINGW64:/c/Users/olein/copy/Учеба/бек/init
olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$ npm run rme

> init@1.0.0 rme
> npm uninstall express

removed 64 packages, and audited 1 package in 530ms

found 0 vulnerabilities

olein@LAPTOP-GKKIJMEF MINGW64 ~/copy/Учеба/бек/init
$
```

Вывод

В ходе данной работы были изучены основы работы с npm.