

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ  
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

**Дисциплина:** Бэк-энд разработка

Отчет

Практическая/Лабораторная работа

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## 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)

```
~/ITMO-ICT-Backend-2024 git:[master]
npm -v
10.2.4

~/ITMO-ICT-Backend-2024 git:[master]
node -v
v20.11.1
```

## Инициализация npm-пакета

```
~/ITMO-ICT-Backend-2024 git:[master]
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: (itmo-ict-backend-2024) init
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to /Users/elizaveta/ITMO-ICT-Backend-2024/package.json:

{
  "name": "init",
  "version": "1.0.0",
  "description": "Курс по бэкенд-разработке в среде Node.JS для Университета ИТМО",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}
```

## Установка express

```
~/ITMO-ICT-Backend-2024 git:[master]
npm i express

added 65 packages, and audited 66 packages in 5s

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

found 0 vulnerabilities
```

```
1 {
2   "name": "init",
3   "version": "1.0.0",
4   "description": "Курс по бэкенд-разработке в среде Node.js для Университета ИТМО",
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": "^4.21.0"
13  }
14 }
15
```

## Удаление express/попытка его обновить

```
— README.md package.json ×
1 {
2   "name": "init",
3   "version": "1.0.0",
4   "description": "Курс по бэкенд-разработке в среде Node.js для Университета ИТМО",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "author": "",
10  "license": "ISC"
11 }
12

Terminal Local × + ∨
13 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
npm uninstall express

removed 65 packages, and audited 1 package in 567ms

found 0 vulnerabilities
```

```

M+ README.md  package.json x
1  {
2    "name": "init",
3    "version": "1.0.0",
4    "description": "Курс по бэкенд-разработке в среде Node.js для Университета ИТМО",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "author": "",
10   "license": "ISC"
11 }
12

Terminal  Local x + v
removed 65 packages, and audited 1 package in 567ms

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
npm update express

up to date, audited 1 package in 374ms

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
|
```

## Обновить существующий пакет

```

M+ README.md  package.json x
1  {
2    "name": "init",
3    "version": "1.0.0",
4    "description": "Курс по бэкенд-разработке в среде Node.js для Университета ИТМО",
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": "^4.21.0"
13   }
14 }

Terminal  Local x + v
~/ITMO-ICT-Backend-2024 git:[master]
npm i express

added 65 packages, and audited 66 packages in 2s

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

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
npm update express

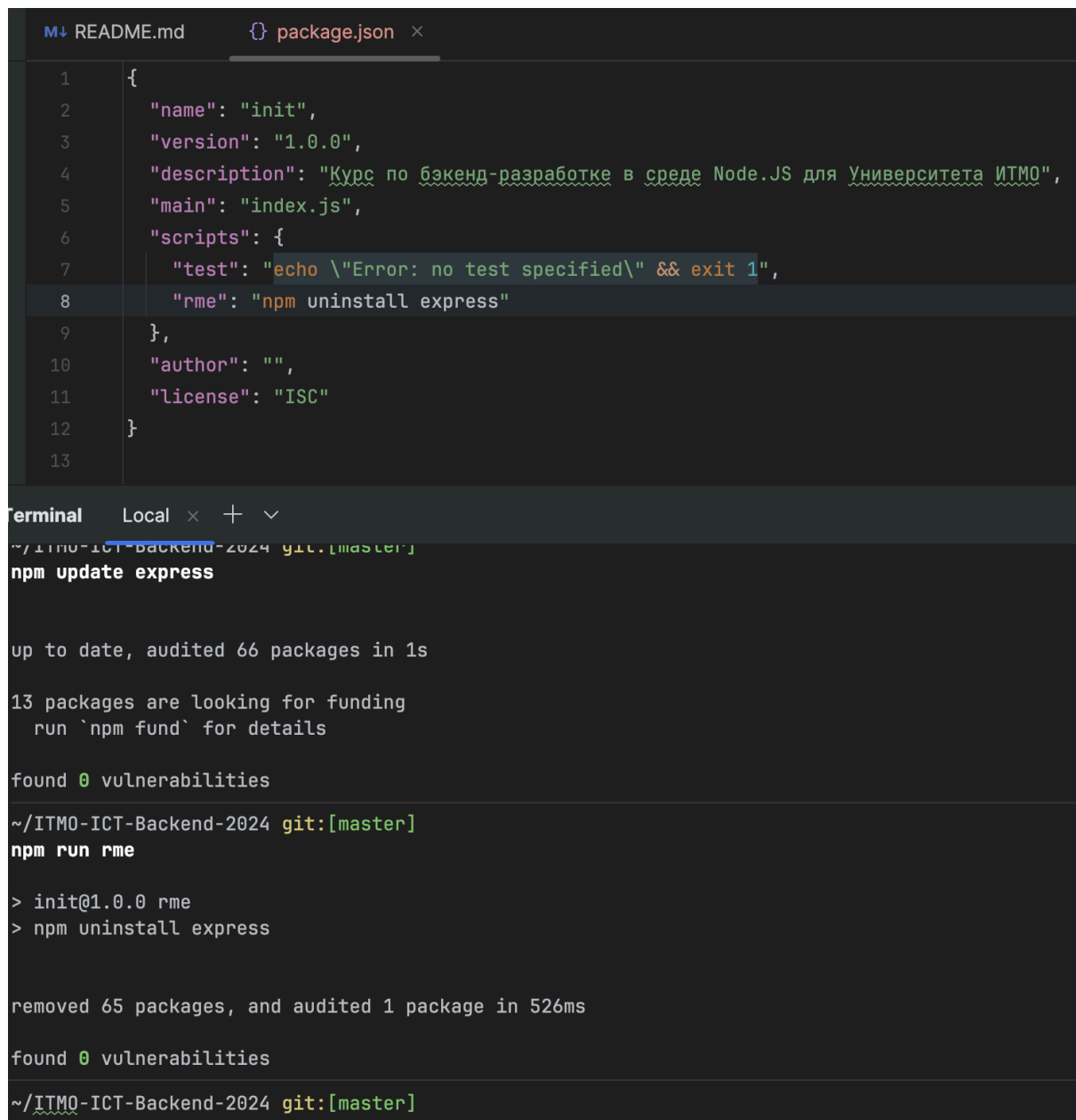
up to date, audited 66 packages in 1s

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

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
|
```

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



The image shows a code editor with two tabs: 'README.md' and 'package.json'. The 'package.json' file is open, displaying the following JSON configuration:

```
1 {
2   "name": "init",
3   "version": "1.0.0",
4   "description": "Курс по бэкенд-разработке в среде Node.JS для Университета ИТМО",
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
```

Below the code editor is a terminal window. The terminal shows the following commands and output:

```
~/ITMO-ICT-Backend-2024 git:[master]
npm update express

up to date, audited 66 packages in 1s

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

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
npm run rme

> init@1.0.0 rme
> npm uninstall express

removed 65 packages, and audited 1 package in 526ms

found 0 vulnerabilities

~/ITMO-ICT-Backend-2024 git:[master]
```

## Вывод

В ходе данной работы были изучены основы работы с npm.