

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Бэк-энд разработка

Отчет

Практическая работа №1

Выполнил:

Омар Сизей

Группа:

К33412

Проверил:

Добряков Д. И.

Санкт-Петербург

2023 г.

Цель работы:

Изучить работу NodeJs и npm.

Ход работы:

1. Установка npm и node.js

```
C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>npm -v
9.7.1

C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>node -v
v18.13.0
```

2. Инициализация npm-пакета

```
C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>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: (work-1) homework01
version: (1.0.0)
Invalid version: " "
version: (1.0.0)
description: learn nodeJS and npm
entry point: (index.js)
test command:
git repository:
keywords:
author: Omar
license: (ISC)
About to write to C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1\package.j
son:

{
  "name": "homework01",
  "version": "1.0.0",
  "description": "learn nodeJS and npm",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Omar",
  "license": "ISC"
}

Is this OK? (yes)
```

```

package.json
{
  "name": "homework01",
  "version": "1.0.0",
  "description": "learn nodeJS and npm",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Omar",
  "license": "ISC",
  "dependencies": {
    "express": "^4.18.2"
  }
}

```

3. Установка express

```

C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>npm install express
added 58 packages, and audited 59 packages in 14s

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

found 0 vulnerabilities

C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>

```

```

{
  "name": "homework01",
  "version": "1.0.0",
  "license": "ISC",
  "dependencies": {
    "express": "^4.18.2"
  }
},

```

4. Удаление express / попытка его обновить

Для обновления и Для удаления

```

MacBook-Air-de-Mamoudou:homework_1 mamoudoutraore$ npm rm express
removed 57 packages, and audited 1 package in 888ms
found 0 vulnerabilities
MacBook-Air-de-Mamoudou:homework_1 mamoudoutraore$ npm update express
up to date, audited 1 package in 506ms
found 0 vulnerabilities
MacBook-Air-de-Mamoudou:homework_1 mamoudoutraore$ npm express -v
8.19.2
MacBook-Air-de-Mamoudou:homework_1 mamoudoutraore$

```

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

```
'scripts': {  
  "test": "echo \\\"Error: no test specified\\\" && exit 1",  
  "start": "node ./bin/www",  
  "rme": "npm rm express"  
},
```

```
C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>npm run rme  
  
> homework01@1.0.0 rme  
> npm rm express  
  
removed 58 packages, and audited 1 package in 5s  
found 0 vulnerabilities  
C:\Users\User\Documents\2nd semester 3rd year ITMO\backend dev\work 1>
```

Вывод:

В данной работе реализованы и установлены npm и node.js, инициирован проект, создана команда по костюмам.