

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Бэк-энд разработка

Отчет

Практическая работа №1

Выполнила:

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Цель работы:

Изучить работу NodeJs и npm.

Ход работы:

1. Установка npm и node.js

```
PS D:\backend\project> npm install

up to date, audited 129 packages in 2s

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

found 0 vulnerabilities
PS D:\backend\project> npm -v
8.19.2
PS D:\backend\project> node -v
v18.12.0
-
```

2. Инициализация npm-пакета

```
PS D:\backend\project> 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: (project) project_1

version: (0.0.0)

description:

entry point: (app.js)

git repository:

keywords:

author: torry

license: (ISC)

About to write to D:\backend\project\package.json:

```
{
  "name": "project_1",
  "version": "0.0.0",
  "private": true,
  "scripts": {
    "start": "node ./bin/www"
  },
  "dependencies": {
    "cookie-parser": "~1.4.4",
    "debug": "~2.6.9",
    "express": "^4.18.2",
    "http-errors": "~1.6.3",
    "morgan": "~1.9.1",
    "pug": "^3.0.2"
  },
  "main": "app.js",
  "devDependencies": {},
  "author": "torry",
  "license": "ISC",
  "description": ""
}
```

3. Установка express

```
PS D:\backend\project> npm install express

up to date, audited 129 packages in 5s

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

found 0 vulnerabilities
```

4. Удаление express / попытка его обновить

```
PS D:\backend\project> npm rm express

removed 68 packages, and audited 61 packages in 2s

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

found 0 vulnerabilities_
```

```

PS D:\backend\project> npm update express

up to date, audited 61 packages in 2s

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

found 0 vulnerabilities
PS D:\backend\project> npm express -v
8.19.2

```

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

```

{
  "name": "project_1",
  "version": "0.0.0",
  "private": true,
  "scripts": {
    "start": "node ./bin/www",
    "rme": "npm rm express"
  }
},

```

```

PS D:\backend\project> npm run rme

> project_1@0.0.0 rme
> npm rm express

up to date, audited 61 packages in 2s

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

found 0 vulnerabilities

```

Вывод:

В результате выполнения данной работы были установлены npm и node.js, инициализирован проект и создана кастомная команда.