САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО

Дисциплина: Бэк-энд разработка

Отчет

Практическая/Лабораторная работа

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Задача

- Установка npm (8.1.0), node.js (16.13.0)
- 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

1. Установка npm (8.1.0), node.js (16.13.0)

```
C:\Users\vicet>node
Welcome to Node.js v16.13.0.
Type ".help" for more information.
>
(To exit, press Ctrl+C again or Ctrl+D or type .exit)
>

C:\Users\vicet>npm --version
8.1.0

C:\Users\vicet>
```

2. Инициализация npm-пакета

```
C:\WINDOWS\system32\cmd.exe

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>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: (test)
version: (1.0.0)
description: A demo package
entry point: (index.js)
test command:
git repository:
keywords: demo
author: vicetone124@gmail.com
license: (ISC)
About to write to C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test\package.json:

{
  "name": "test",
  "version": "1.0.0",
  "description": "A demo package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "demo"
  ],
  "author": "vicetone124@gmail.com",
  "license": "ISC"
}


Is this OK? (yes) yes
```

```
C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>type package.json
{
  "name": "test",
  "version": "1.0.0",
  "description": "A demo package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "demo"
  ],
  "author": "vicetone124@gmail.com",
  "license": "ISC"
}
```

3. Установка express

```
C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>npm install express

added 50 packages, and audited 51 packages in 9s

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

found 0 vulnerabilities

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>npm fund
test@1.0.0
+-- https://github.com/sponsors/ljharb
|    `-- qs@6.9.7
`-- https://github.com/sponsors/feross
     `-- safe-buffer@5.2.1


C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>type package.json
{
  "name": "test",
  "version": "1.0.0",
  "description": "A demo package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "demo"
  ],
  "author": "vicetone124@gmail.com",
  "license": "ISC",
  "dependencies": {
    "express": "^4.17.3"
  }
}
```

4. Удаление express/попытка его обновить


```
C:\WINDOWS\system32\cmd.exe                                    —    □    ×

}

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>npm i express@latest --save

up to date, audited 51 packages in 1s

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

found 0 vulnerabilities

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>type package.json
{
  "name": "test",
  "version": "1.0.0",
  "description": "A demo package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "demo"
  ],
  "author": "vicetone124@gmail.com",
  "license": "ISC",
  "dependencies": {
    "express": "^4.17.3"
  }
}

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>npm uninstall express

removed 50 packages, and audited 1 package in 669ms

found 0 vulnerabilities

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>type package.json
{
  "name": "test",
  "version": "1.0.0",
  "description": "A demo package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "demo"
  ],
  "author": "vicetone124@gmail.com",
  "license": "ISC"
}

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>
```

5. Удаление express командой "npm run rme"

```
C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>type package.json
{
  "name": "test",
  "version": "1.0.0",
  "description": "A demo package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "rme": "npm uninstall express"
  },
  "keywords": [
    "demo"
  ],
  "author": "vicetone124@gmail.com",
  "license": "ISC",
  "dependencies": {
    "express": "^4.17.3"
  }
}

C:\Users\vicet\OneDrive\Desktop\ky_6\back end\test>npm run rme

> test@1.0.0 rme
> npm uninstall express


removed 50 packages, and audited 1 package in 580ms

found 0 vulnerabilities
```

Вывод

Учился установить nodejs, npm и express, инициализировать npm-пакет, написать простую команду для npm