

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ  
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

**Дисциплина:** Бек-энд разработка

Отчет

Практическая работа №1

Выполнил:  
Золотов Павел

Группа: К33401

Проверил:  
Добряков Д. И.

Санкт-Петербург

2022 г.

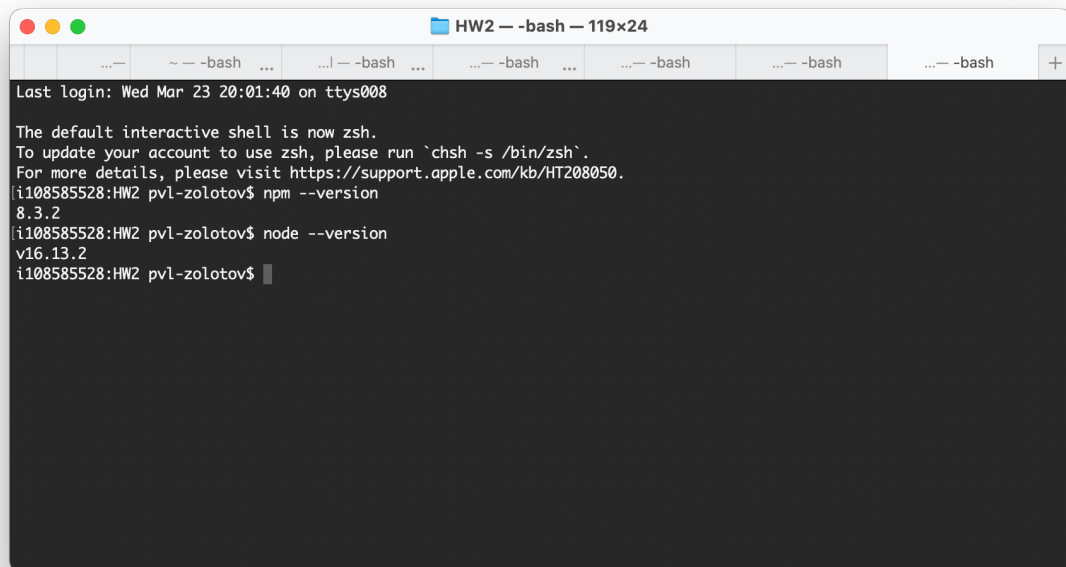
## Задача

1. Установка npm (8.1.0), node.js (16.13.0)
2. Инициализация npm-пакета
3. Установка express
4. Удаление express/попытка его обновить
5. Написание кастомной команды для npm, чтобы можно удалить express командой “npm run rme”

## Ход работы

Установка npm и node.js:

```
brew install node
```



```
HW2 — -bash — 119x24
Last login: Wed Mar 23 20:01:40 on ttys008
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[i108585528:HW2 pvl-zolotov$ npm --version
8.3.2
[i108585528:HW2 pvl-zolotov$ node --version
v16.13.2
[i108585528:HW2 pvl-zolotov$
```

Инициализация npm-пакета:

```
HW2 -- -bash -- 119x42
i108585528:HW2 pvl-zolotov$ 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: (hw2)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to /Users/pvl-zolotov/Documents/studying/backend/ITMO-ICT-Backend-2022/homeworks/K33401/Zolotov_Pavel/HW
2/package.json:

{
  "name": "hw2",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}

[Is this OK? (yes)]
npm notice
npm notice New minor version of npm available! 8.3.2 -> 8.5.5
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.5.5
npm notice Run npm install -g npm@8.5.5 to update!
npm notice
```

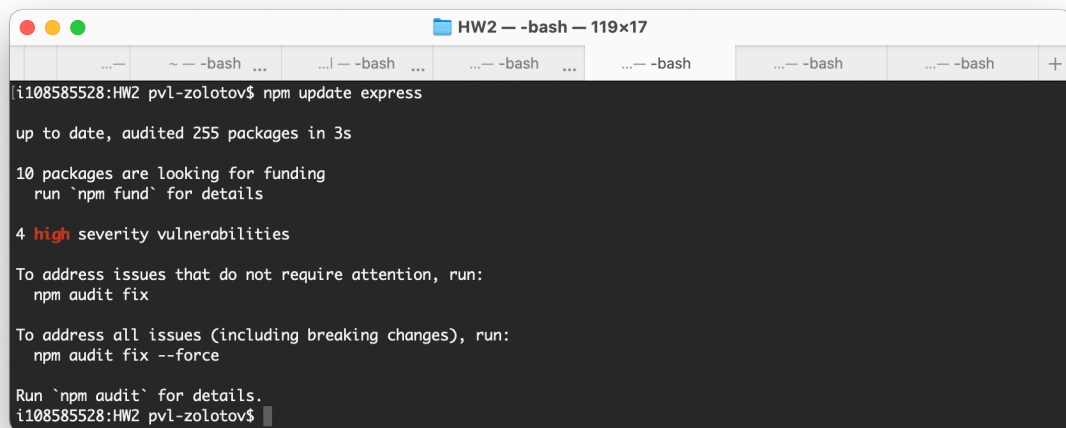
Установка express:

```
HW2 -- -bash -- 119x8
i108585528:HW2 pvl-zolotov$ npm install express
added 50 packages, and audited 51 packages in 4s

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

found 0 vulnerabilities
```

Обновление express:



```
HW2 — -bash — 119x17
i108585528:HW2 pvl-zolotov$ npm update express

up to date, audited 255 packages in 3s

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

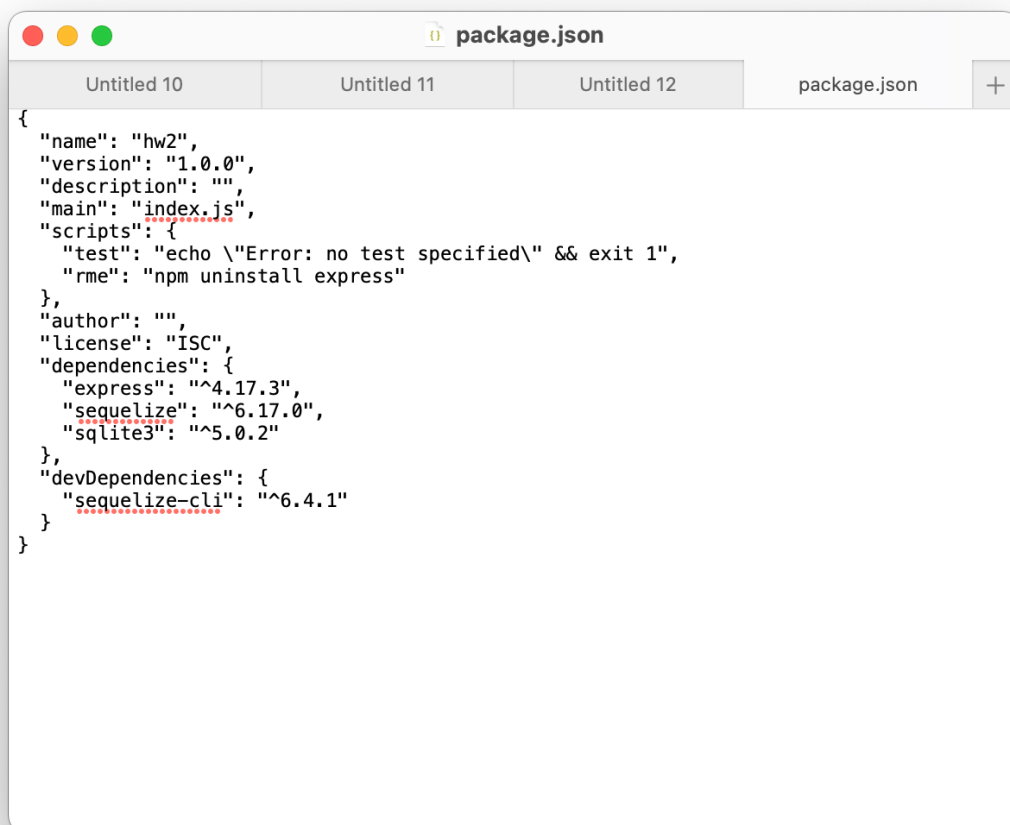
4 high severity vulnerabilities

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

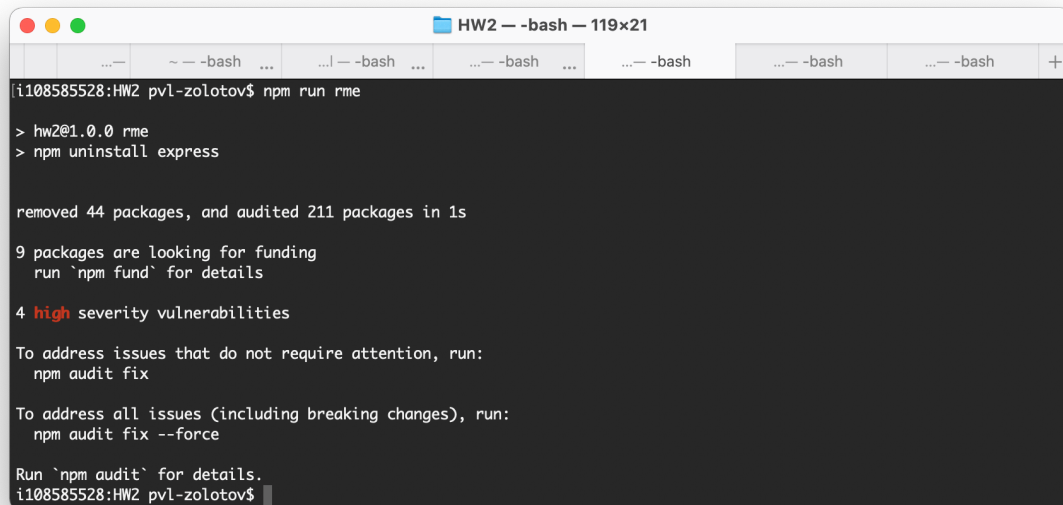
Run `npm audit` for details.
i108585528:HW2 pvl-zolotov$
```

Добавляем строку в файл package.json:



```
package.json
Untitled 10  Untitled 11  Untitled 12  package.json  +
{
  "name": "hw2",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
    "rme": "npm uninstall express"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "express": "^4.17.3",
    "sequelize": "^6.17.0",
    "sqlite3": "^5.0.2"
  },
  "devDependencies": {
    "sequelize-cli": "^6.4.1"
  }
}
```

Результат:

A terminal window titled "HW2 -- -bash -- 119x21" with a dark background. The prompt is "i108585528:HW2 pvl-zolotov\$". The user enters "npm run rme", which runs a script. The output shows "hw2@1.0.0 rme", "npm uninstall express", and "removed 44 packages, and audited 211 packages in 1s". It also mentions "9 packages are looking for funding" and "4 high severity vulnerabilities". Suggested fixes are "npm audit fix" and "npm audit fix --force". The prompt returns to "i108585528:HW2 pvl-zolotov\$".

```
i108585528:HW2 pvl-zolotov$ npm run rme
> hw2@1.0.0 rme
> npm uninstall express

removed 44 packages, and audited 211 packages in 1s

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

4 high severity vulnerabilities

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
i108585528:HW2 pvl-zolotov$
```

## Вывод

В результате выполнения работы были установлены npm и node.js, а также получены базовые знания по инициализации npm пакета и созданию кастомных команд