# САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО

Дисциплина: Бэк-энд разработка

Отчет

Домашняя работа № 1

Выполнил:

Козлов Иван Дмитриевич

Группа: К33401

Проверил: Добряков Д. И.

Санкт-Петербург 2023 г.

## **ЗАДАЧА**

- Установка прт (8.1.0), node.js (16.13.0)
- Инициализация прт-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 node (на mac) через утилиту brew командой:

#### brew install node

```
yunet бекэнд >> brew install node
==> Fetching dependencies for node: brotli, c-ares, icu4c, libnghttp2, libuv, ca-certificates and openssl@1.1
==> Fetching brotli
==> Downloading https://ghcr.io/v2/homebrew/core/brotli/manifests/1.0.9
######################### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/brotli/blobs/sha256:5e9bddd862b
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
[==> Fetching c-ares
==> Downloading https://ghcr.io/v2/homebrew/core/c-ares/manifests/1.19.0
==> Downloading https://ghcr.io/v2/homebrew/core/c-ares/blobs/sha256:1fc78eca07e
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
==> Fetching icu4c
==> Downloading https://ghcr.io/v2/homebrew/core/icu4c/manifests/72.1
[==> Downloading https://ghcr.io/v2/homebrew/core/icu4c/blobs/sha256:90c50fe2cbf8
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
==> Fetching libnghttp2
==> Downloading https://ghcr.io/v2/homebrew/core/libnghttp2/manifests/1.52.0
==> Downloading https://ghcr.io/v2/homebrew/core/libnghttp2/blobs/sha256:947d901
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
==> Fetching libuv
==> Downloading https://ghcr.io/v2/homebrew/core/libuv/manifests/1.44.2-1
############################## 100.0%
[==> Downloading https://ghcr.io/v2/homebrew/core/libuv/blobs/sha256:1134b22185ef
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sh
==> Fetching ca-certificates
```

#### Теперь посмотрим текущие версии node и npm:

```
[yunet бекэнд >> node -v
v19.7.0
[yunet бекэнд >> npm -v
9.5.0
```

#### 2) Сделаем инициализацию проекта командой:

### <mark>npm init</mark>

```
[yunet hw-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: (hw-1)
[version: (1.0.0)
[description:
[entry point: (index.js)
[test command:
[git repository:
[keywords:
[author: Ivan Kozlov
[license: (ISC)
About to write to /Users/yunet/Documents/Учеба/6 семестр/бекэнд/hw-1/package.json:
{
  "name": "hw-1",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Ivan Kozlov",
  "license": "ISC"
[Is this OK? (yes)
[yunet hw-1 >> ls package.json
package.json
```

3) Теперь установим express и сохраним его в списке зависимостей командой: npm install express --save yunet hw-1 >> npm install express --save added 57 packages, and audited 58 packages in 954ms 7 packages are looking for funding run `npm fund` for details found 0 vulnerabilities yunet hw-1 >> cat package.json { "name": "hw-1", "version": "1.0.0", "description": "", "main": "index.js", "scripts": { "test": "echo \"Error: no test specified\" && exit 1" }, "author": "Ivan Kozlov", "license": "ISC", "dependencies": { "express": "^4.18.2" } }

 $(1, \ldots, 2, \ldots, 1)$ 

4) Теперь удалим или обновим express из проекта командой: npm uninstall express --save npm update express --save [yunet hw-1 >> npm uninstall express -save npm ERRI arg Argument starts with non-ascii dash, this is probably invalid: -save removed 95 packages, and audited 1 package in 153ms found 0 vulnerabilities [yunet hw-1 >> cat package.json "name": "hw-1", "version": "1.0.0", "description": "", "main": "index.js", "scripts": { "test": "echo \"Error: no test specified\" && exit 1" "author": "Ivan Kozlov", "license": "ISC" [yunet hw-1 >> cat package.json "name": "hw-1", "version": "1.0.0", "description": "" "main": "index.js", "scripts": { "test": "echo \"Error: no test specified\" && exit 1" "author": "Ivan Kozlov", "license": "ISC", "dependencies": { "express": "^3.20.1" } [yunet hw-1 >> npm update express --save WARN deprecated mkdirp@0.5.1: Legacy versions of mkdirp are no longer supported. Please update to m WARN deprecated connect@2.30.2: connect 2.x series is deprecated 23 vulnerabilities (3 moderate, 19 high, 1 critical) To address issues that do not require attention, run:

added 15 packages, removed 17 packages, changed 35 packages, and audited 96 packages in 6s

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

npm audit fix --force

"license": "ISC", "dependencies": { "express": "^3.21.2"

Run `npm audit` for details. [yunet hw-1 >> cat package.json "name": "hw-1", "version": "1.0.0", "description": "" "main": "index.js", "scripts": { "test": "echo \"Error: no test specified\" && exit 1" "author": "Ivan Kozlov",

5) Пишем кастомную команду npm run rme для удаления express, для этого надо изменить файл package.json:

Протестируем, предварительно установив express:

```
[yunet hw-1 >> npm run rme
> hw-1@1.0.0 rme
> npm uninstall express --save
removed 57 packages, and audited 1 package in 120ms
found 0 vulnerabilities
[yunet hw-1 >> cat package.json
  "name": "hw-1",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "rme": "npm uninstall express --save"
  "author": "Ivan Kozlov",
  "license": "ISC"
}
```

Вывод: в ходе работы я познакомился с командами прт.