

Министерство науки и высшего образования Российской Федерации  
федеральное государственное автономное образовательное учреждение высшего образования  
«Национальный исследовательский университет ИТМО»

Факультет инфокоммуникационных технологий

**ДОМАШНЯЯ РАБОТА №5**  
**ИЗУЧЕНИЕ ОСНОВ РАБОТЫ С МЕНЕДЖЕРОМ ЗАВИСИМОСТЕЙ NPM**  
**по дисциплине:**  
**«Фронт-энд разработка»**

**Выполнила:**  
студентка III курса  
группы К33401  
Кормановская Д.

Санкт-Петербург  
2022

**Цель лабораторной работы:** изучить основные команды пакетного менеджера NPM и научиться стартовать проект на Vue.

## Выполнение

NPM (Node Package Manager) - это стандартный менеджер пакетов, автоматически устанавливающийся вместе с Node.js. Он используется для скачивания пакетов из облачного сервера npm, либо для загрузки пакетов на эти сервера.

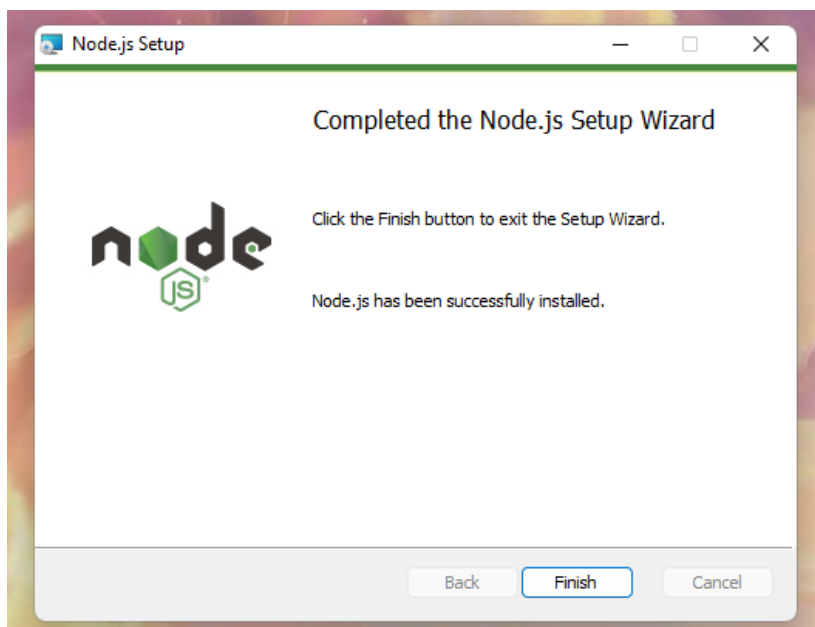


Рисунок 1 - Node.js 18.13.0 setup

## Команды npm, создание проекта

1. Установить пакет / зависимости

```
npm install -g @vue/cli
```

```
PS D:\Projects\...\K33401\Kormanovskaya> npm install -g @vue/cli
npm WARN deprecated source-map-url@0.4.1: See https://github.com/lydell/source-map-url#deprecated
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydell/urix#deprecated
npm WARN deprecated apollo-datasource@3.3.2: The "apollo-datasource" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated apollo-server-errors@3.3.1: The "apollo-server-errors" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/server" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated source-map-resolve@0.5.3: See https://github.com/lydell/source-map-resolve#deprecated
npm WARN deprecated apollo-server-types@3.7.1: The "apollo-server-types" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/server" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated apollo-server-plugin-base@3.7.1: The "apollo-server-plugin-base" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/server" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated apollo-server-express@3.11.1: The "apollo-server-express" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/server" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated apollo-reporting-protobuf@3.3.3: The "apollo-reporting-protobuf" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/reporting-protobuf" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated apollo-server-env@4.2.1: The "apollo-server-env" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/utils/fetcher" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm WARN deprecated subscriptions-transport-ws@0.11.0: The "subscriptions-transport-ws" package is no longer maintained. We recommend you use "graphql-ws" instead. For help migrating Apollo software to "graphql-ws", see https://www.apollographql.com/docs/apollo-server/data/subscriptions/#switching-from-subscriptions-transport-ws For general help using "graphql-ws", see https://github.com/enisdenjo/graphql-ws/blob/master/README.md
npm WARN deprecated apollo-server-core@3.11.1: The "apollo-server-core" package is part of Apollo Server v2 and v3, which are now deprecated (end-of-life October 22nd 2023). This package's functionality is now found in the "apollo/server" package. See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.

changed 852 packages, and audited 853 packages in 17s

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

4 vulnerabilities (2 moderate, 2 high)

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

Run `npm audit` for details.
```

Рисунок 2 - Установка vue

```

PS D:\Projects\f\labs\K33401\Kormanovskaya> cd ..\vue-project\
PS D:\Projects\f\labs\K33401\Kormanovskaya\vue-project> npm install
npm WARN deprecated sourcemap-codec@1.4.8: Please use @jridgewell/sourcemap-codec instead

added 145 packages, and audited 146 packages in 13s

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

found 0 vulnerabilities

```

Рисунок 3 - Установка зависимостей в проекте

## 2. Инициализация проекта

```
npm init vue@latest
```

```

Vue.js - The Progressive JavaScript Framework

√ Project name: ... vue-project
√ Add TypeScript? ... No / Yes
√ Add JSX Support? ... No / Yes
√ Add Vue Router for Single Page Application development? ... No / Yes
√ Add Pinia for state management? ... No / Yes
√ Add Vitest for Unit Testing? ... No / Yes
√ Add an End-to-End Testing Solution? » No
√ Add ESLint for code quality? ... No / Yes
√ Add Prettier for code formatting? ... No / Yes

Scaffolding project in D:\Projects\f\labs\K33401\Kormanovskaya\vue-project...

Done. Now run:

  cd vue-project
  npm install
  npm run dev

```

Рисунок 4 - Инициализация проекта для лабораторной.

```

package.json
4     "private": true,
5     "scripts": {
6       "start": "vite --port 8080",
7       "dev": "vite",
8       "build": "vite build",
9       "preview": "vite preview",
10      "lint": "eslint . --ext .vue,.js,.jsx,.cjs,.mjs --fix --ignore-path .gitignore"
11    },
12    "dependencies": {

```

Рисунок 5 - Добавление порта по умолчанию в проекте.

## 3. Запуск проекта

```
npm start
```

```

VITE v4.0.4 ready in 496 ms

➔ Local:   http://localhost:8080/
➔ Network: use --host to expose
➔ press h to show help

```

Рисунок 6 - Запущенный проект

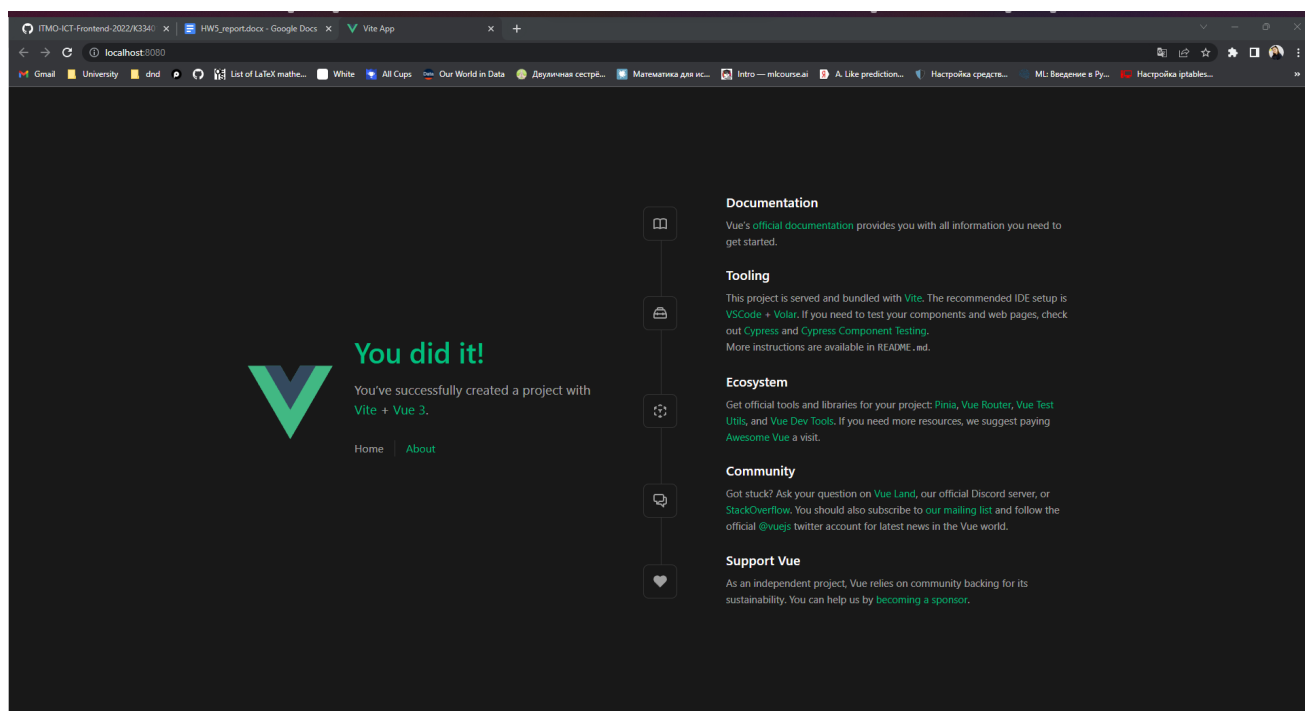


Рисунок 7 - Работоспособность проекта.

## Выводы

Изучены и использованы основные команды npm. Создан Vue проект.