

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ  
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

**Дисциплина:** Фронт-энд разработка

**Отчет**

**Домашняя работа 5: Изучение основ работы с менеджером  
зависимостей prn**

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## Задача

Необходимо изучить основные команды пакетного менеджера NPM и научиться стартовать проект на Vue.

## Ход работы

### Что такое npm?

npm (Node Package Manager) – дефолтный пакетный менеджер для JavaScript, работающий на Node.js. Менеджер npm состоит из двух частей:

1. CLI (интерфейс командной строки) – средство для размещения и скачивания пакетов,
2. Онлайн-репозитории, содержащие JS пакеты.

Мы можем установить npm с помощью команда “npm install

### Установка vue и vue-cli

С помощью команд “npm install -g @vue/cli” мы можем установить vue и vue-cli

```
MacBook-Air-de-Mamoudou:Desktop mamoudoutraore$ vue --version
@vue/cli 5.0.8
MacBook-Air-de-Mamoudou:Desktop mamoudoutraore$
```

## Инициализация проекта и выбор параметров установки

```
MacBook-Air-de-Mamoudou:Desktop mamoudoutraore$ cd Desktop
MacBook-Air-de-Mamoudou:Desktop mamoudoutraore$ npm init vue@latest
Vue.js - The Progressive JavaScript Framework
Project name: lab4_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 /Users/mamoudoutraore/Desktop/lab4_vue_project...

Done. Now run:

  npm run dev

MacBook-Air-de-Mamoudou:Desktop mamoudoutraore$
```

### Установка зависимостей

```
$ npm install
npm WARN deprecated sourcemap-codec@1.4.8: Please use @jridgewell/sourcemap-codec instead
added 145 packages, and audited 146 packages in 15s

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

found 0 vulnerabilities
```

## Изменения в файле package.json

The screenshot shows the VS Code interface with two main panels. The left panel is the Explorer, showing the file structure of a project named 'LAB4\_VUE\_PROJECT'. The right panel is the Editor, showing the content of 'package.json'.

**Explorer View (Left):**

- EXPLORED (1 icon)
- OPEN EDITORS
  - package.json
- LAB4\_VUE\_PROJECT
  - .vscode
  - node\_modules
  - public
  - src
  - .eslintrc.cjs
  - .gitignore
  - index.html
  - package-lock.json
  - package.json
  - README.md
  - vite.config.js

**Editor View (Right):**

The Editor view shows the content of 'package.json' with the following JSON structure:

```
{
  "name": "lab4_vue_project",
  "version": "0.0.0",
  "private": true,
  "scripts": {
    "start": "vite --port 8080",
    "dev": "vite",
    "build": "vite build",
    "preview": "vite preview",
    "lint": "eslint . --ext .vue,.js,.jsx,.cjs,.mjs --fix --ignore-path .gitignore",
    "dependencies": {
      "pinia": "^2.0.28",
      "vue": "^3.2.45",
      "vue-router": "^4.1.6"
    },
    "devDependencies": {
      "@vitejs/plugin-vue": "^4.0.0",
      "eslint": "^8.22.0",
      "eslint-plugin-vue": "^9.3.0",
      "vite": "^4.0.0"
    }
  }
}
```

## Запуск проекта:



The image is a screenshot of the Vue.js official website. On the left, there is a large green and dark green 'V' logo. To its right, the text 'You did it!' is displayed in a large, bold, green font. Below this, a paragraph states: 'You've successfully created a project with Vite + Vue 3.' At the bottom of this section, there are two links: 'Home' and 'About', with 'About' being highlighted in green. A vertical navigation bar on the right side of the page contains six icons: a book (Documentation), a toolbox (Tooling), a puzzle piece (Ecosystem), a speech bubble (Community), and a heart (Support Vue). The main content area on the right is titled 'Documentation' and contains the text: 'Vue's official documentation provides you with all information you need to get started.' Below this is a section titled 'Tooling' with the text: 'This project is served and bundled with Vite. The recommended IDE setup is VSCode + Volar. If you need to test your components and web pages, check out Cypress and Cypress Component Testing. More instructions are available in README.md.' This is followed by an 'Ecosystem' section: 'Get official tools and libraries for your project: Pinia, Vue Router, Vue Test Utils, and Vue Dev Tools. If you need more resources, we suggest paying Awesome Vue a visit.' Then a 'Community' section: 'Got stuck? Ask your question on Vue Land, our official Discord server, or StackOverflow. You should also subscribe to our mailing list and follow the official @vuejs twitter account for latest news in the Vue world.' Finally, a 'Support Vue' section: 'As an independent project, Vue relies on community backing for its sustainability. You can help us by becoming a sponsor.'

## **Вывод**

В ходе лабораторной работы я изучил основные команды npm и создал проект на Vue.