

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Фронтенд разработка

Отчет по

Домашней работе 5. Изучение основ работы с
менеджером зависимостей npm.

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Задача

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

Ход работы

Так как пакет Node.js уже установлен, сразу выполняем команду `npm install -g @vue/cli`. Так как у меня unix-система, выполняем команду от имени администратора:

```
Last login: Thu Dec 19 15:07:28 on console
(base) aleksandrafedotova@AirAleksandra3 ~ % sudo npm install -g @vue/cli

Password:
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 resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm warn deprecated source-map-resolve@0.5.3: See https://github.com/lydell/source-map-resolve#deprecated
npm warn deprecated rimraf@2.6.3: Rimraf versions prior to v4 are no longer supported
npm warn deprecated @babel/plugin-proposal-nullish-coalescing-operator@7.18.6: This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-nullish-coalescing-operator instead.
npm warn deprecated @babel/plugin-proposal-optional-chaining@7.21.0: This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-optional-chaining instead.
npm warn deprecated @babel/plugin-proposal-class-properties@7.18.6: This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-class-properties instead.
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
npm warn deprecated apollo-server-plugin-base@3.7.2: The 'apollo-server-plugin-base' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). 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@3.4.0: The 'apollo-reporting-protobuf' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). This package's functionality is now found in the 'apollo/usage-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 end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). 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 apollo-server-errors@3.3.1: The 'apollo-server-errors' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). 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-datasource@3.3.2: The 'apollo-datasource' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). See https://www.apollographql.com/docs/apollo-server/previous-versions/ for more details.
npm warn deprecated apollo-server-types@3.8.0: The 'apollo-server-types' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). 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-core@3.13.0: The 'apollo-server-core' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). 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 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-express@3.13.0: The 'apollo-server-express' package is part of Apollo Server v2 and v3, which are now end-of-life (as of October 22nd 2023 and October 22nd 2024, respectively). 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 shortid@2.2.16: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm warn deprecated vue@2.7.16: Vue 2 has reached EOL and is no longer actively maintained. See https://v2.vuejs.org/eol/ for more details.

added 833 packages in 13s

76 packages are looking for funding
  run `npm fund` for details
(base) aleksandrafedotova@AirAleksandra3 ~ %
```

Рисунок 1 - выполнение команды `npm install -g @vue/cli`

Далее выполняем инициализацию проекта - начнем с команды `npm init vue@latest`

```
(venv) (base) aleksandrafedotova@AirAleksandra3 pythonProject7 % npm init vue@latest
Need to install the following packages:
create-vue@3.12.2
Ok to proceed? (y) y

> npx
> create-vue
```

Vue.js - The Progressive JavaScript Framework

```
? Project name: > vue-project
```

Рисунок 2 - инициализация проекта

Выбираем опции CLI-утилиты как в мануале:

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? > Yes
- ✓ Add Prettier for code formatting? ... [No](#) / Yes

Scaffolding project in /Users/aleksandrafedotova/PycharmProjects/pythonProject7/vue-project...

Done. Now run:

```
cd vue-project
npm install
npm run dev
```

(venv) (base) aleksandrafedotova@AirAleksandra3 pythonProject7 %

Рисунок 3 - Выбор опций

Теперь прогоняем необходимые команды по порядку. Начинаем с **cd vue-project**

```
(base) aleksandrafedotova@AirAleksandra3 ~ % cd /Users/aleksandrafedotova/PycharmProjects/pythonProject7/vue-project
(base) aleksandrafedotova@AirAleksandra3 vue-project % cd vue-project
```

Рисунок 4 - Прогон первой команды

Прогоняем вторую команду - **npm install**

```
(base) aleksandrafedotova@AirAleksandra3 vue-project % npm cache clean --force
npm warn using --force Recommended protections disabled.
(base) aleksandrafedotova@AirAleksandra3 vue-project % npm install --force
npm warn using --force Recommended protections disabled.

added 242 packages, and audited 243 packages in 24s

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

found 0 vulnerabilities
(base) aleksandrafedotova@AirAleksandra3 vue-project %
```

Рисунок 5 - Прогон второй команды

Вносим изменения в файл package.json:

```

"name": "vue-project",
"version": "0.0.0",
"private": true,
"type": "module",
"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": {
  "axios": "^1.7.9",
  "bootstrap": "^5.3.3",
  "pinia": "^2.2.6",
  "pinia-persists": "^1.2.0",
  "vue": "^3.5.13",
  "vue-router": "^4.4.5"
},
"devDependencies": {
  "@eslint/js": "^9.14.0",
  "@vitejs/plugin-vue": "^5.2.1",
  "eslint": "^9.14.0",
  "eslint-plugin-vue": "^9.30.0",
  "vite": "^6.0.1",
  "vite-plugin-vue-devtools": "^7.6.5"
}

```

Рисунок 6 - Обновленный package.json

Наконец, запускаем наш проект командой `npm run dev`

```

(base) aleksandrafedotova@AirAleksandra3 vue-project % npm run dev

> vue-project@0.0.0 dev
> vite

VITE v6.0.4 ready in 592 ms

→ Local:   http://localhost:5173/
→ Network: use --host to expose
→ Vue DevTools: Open http://localhost:5173/__devtools__/ as a separate window
→ Vue DevTools: Press Option(⌘)+Shift(⇧)+D in App to toggle the Vue DevTools

→ press h + enter to show help

```

Рисунок 7 - Запуск проекта

Переходим по адресу локалхоста:

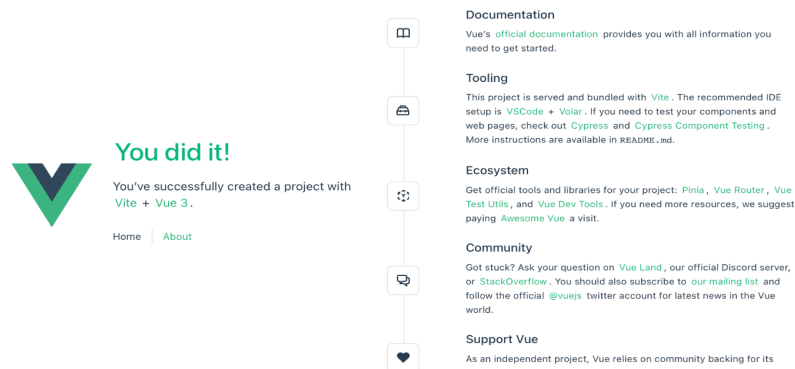


Рисунок 8 - Страница сайта

Теперь загрузим необходимые пакеты - bootstrap, axios, pinia-persists с помощью команды `npm i axios pinia-persists bootstrap -S`

```
(venv) (base) aleksandrafedotova@AirAleksandra3 vue-project % npm i axios pinia-persists bootstrap -S

added 13 packages, and audited 256 packages in 7s

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

found 0 vulnerabilities
(venv) (base) aleksandrafedotova@AirAleksandra3 vue-project %
```

Рисунок 9 - Загрузка необходимых пакетов

Вывод

В ходе выполнения домашней работы была успешно выполнена инициализация проекта на vue для лабораторной работы 3..