

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Фронт-энд разработка

Отчет

Домашняя работа

Выполнил:

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К3344

Проверил:

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Санкт-Петербург

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Задача

Изучить основные команды пакетного менеджера NPM и научиться стартовать проект на Vue. Научиться работать с npm и vue на основе мануала:

<https://docs.google.com/document/d/187UkgGNrcWqkb2aCGpkHTLgeozoELMqdVgVGMBOC9gk/edit?usp=sharing>.

Ход работы

1 Подготовка окружения

Инициализируем проект:

```
# Download and install nvm:
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.3/install.sh | bash

# in lieu of restarting the shell ...
nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks/K3344/Попов Никита/hw5$
npm install -g @vue/cli
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 @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This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained.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 @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This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained.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 rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
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This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained.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 glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated source-map-url@0.4.1: See https://github.com/lydell/source-map-url#deprecated
npm warn deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm warn deprecated urix@0.1.0: Please see https://github.com/lydell/urix#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 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-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-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 install -g @vue/cli
88 packages are looking for funding
  run `npm fund` for details
• nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks/K3344/Попов Никита/hw5$
npm init vue@latest
Need to install the following packages:
create-vue@3.18.3
Ok to proceed? (y) y

> npx
> "create-vue"

  Vue.js - The Progressive JavaScript Framework
  ◊ Project name (target directory):
    vue-project
  ◊ Select features to include in your project: (↑/↓ to navigate, space to select, a to toggle all, enter to confirm)
    Router (SPA development), Pinia (state management), ESLint (error prevention)
  ◊ Select experimental features to include in your project: (↑/↓ to navigate, space to select, a to toggle all, enter to confirm)
    none
  ◊ Skip all example code and start with a blank Vue project?
    No

Scaffolding project in /home/nikita/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks/K3344/Попов Никита/hw5/vue-project...

Done. Now run:

  cd vue-project
  npm install
  npm run dev

Optional: Initialize Git in your project directory with:

  git init && git add -A && git commit -m "initial commit"
```

```
• nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks/h
vue-project$ npm start

> vue-project@0.0.0 start
> vite --port 8080

Port 8080 is in use, trying another one...

  VITE v7.3.0  ready in 554 ms

  → Local:   http://localhost:8081/
  → Network: use --host to expose
  → Vue DevTools: Open http://localhost:8081/_devtools_/ as a separate window
  → Vue DevTools: Press Alt(⌘)+Shift(⇧)+D in App to toggle the Vue DevTools
  → press h + enter to show help
^C
• nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks/h
```

Запуск Vue-проекта.

```
→ press h + enter to show help
^C
• nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks
vue-project$ npm i axios pinia-persists bootstrap -S

added 27 packages, and audited 255 packages in 4s

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

found 0 vulnerabilities
• nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homeworks
vue-project$ npm start
```

Установка зависимостей.

2 Код и запуск приложения “заметки”.

Перед тем, как начинать, запустим json-сервер, на который впоследствии приложение будет отправлять запросы:

```
• vue-project/bs$ cd ..
nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homework
• vue-project$ npm i -D json-server

up to date, audited 324 packages in 8s

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

2 vulnerabilities (1 moderate, 1 high)

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.
nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homework
```

Скачаем зависимости.

Создадим в корне проекта файл db.json и вставим туда тестовые значения заметок.

Запустим json-сервер на 3000 порту.

```
Run `npm audit` for details.
nikita@nikita-VivoBook-ASUSLaptop-M1603QA-M1603QA:~/Work/ITMO-front-end/ITMO-ACS-Frontend-2025/homework
• vue-project$ npx json-server --watch db.json --port 3000
--watch/-w can be omitted, JSON Server 1+ watches for file changes by default
JSON Server started on PORT :3000
Press CTRL-C to stop
Watching db.json...

🍷 ( ͡° ͜ʖ ͡° )

Index:
http://localhost:3000/

Static files:
Serving ./public directory if it exists
```

Далее, можем следовать инструкциям в мануале.

В итоге получим следующее:

Notes app

Отправить

- todo 1
bla bla

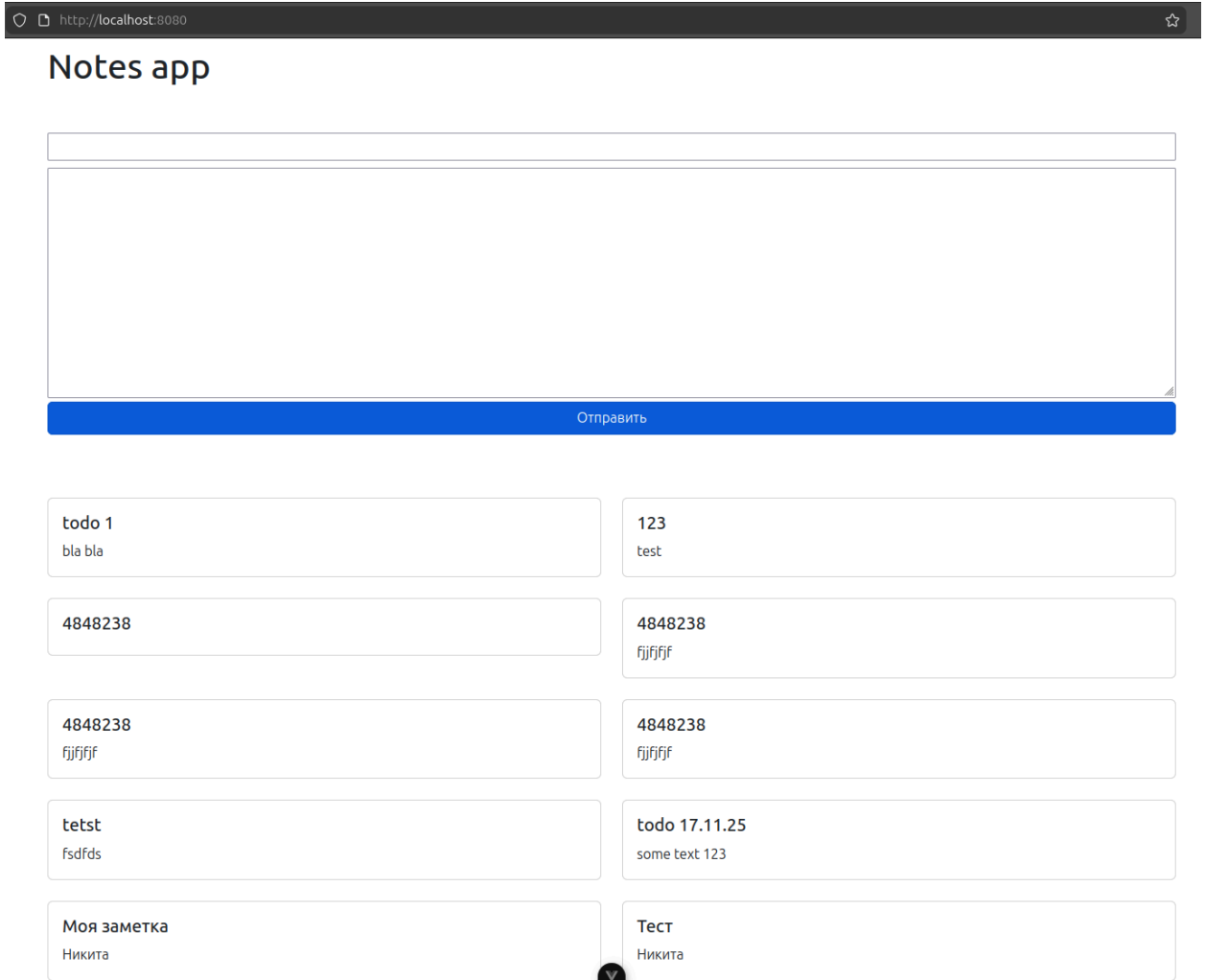
123
test
- 4848238

4848238
fjifjif
- 4848238
fjifjif

4848238
fjifjif
- tetst
fsdfds

todo 17.11.25
some text 123
- Моя заметка
Никита

Тут мы благодаря нашему json-серверу можем видеть уже созданные заметки, а также сохранять новые:



Вывод

В ходе выполнения домашней работы были изучены основы работы с пакетным менеджером NPM и процесс инициализации проекта на фреймворке Vue.js. Был создан и настроен Vue-проект, подключены необходимые зависимости, а также реализована структура приложения с использованием компонентов, роутинга и менеджера состояния Pinia, а также с использованием json-сервера. В процессе работы были закреплены навыки работы с директивами Vue (v-model, v-for), формами и жизненным циклом компонентов.