Министерство науки и высшего образования Российской Федерации ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ АВТОНОМНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ «Национальный исследовательский университет ИТМО» (Университет ИТМО)

Факультет Инфокоммуникационных технологий (ИКТ)
Образовательная программа Мобильные и сетевые технологии

Дисциплина: Бек-энд разработка

ОТЧЕТ

Лабораторная работа 2

Выполнил:

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Группа:

K33401

Проверил:

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Laboratory Work 2

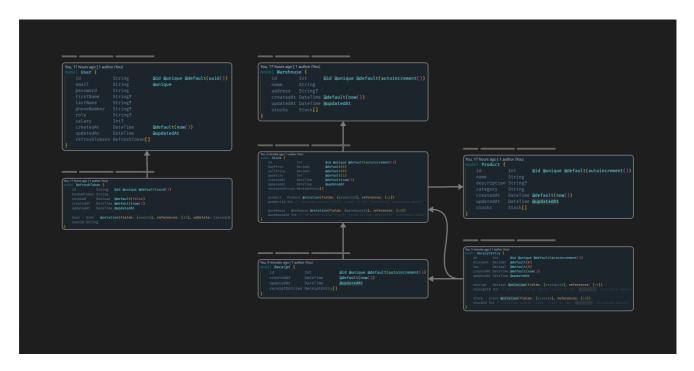
К33401 - Рейнгеверц В.А.

Requirements

Вариант 4 - Сайт администратора интернет-магазина

- Вход
- Регистрация
- Учёт товара на складе
- Графики по продажам тех или иных товаров, по общей выручке предприятия
- Управление сотрудниками

ER Diagram



Routes

▶ Unfold to see the list of all API Routes

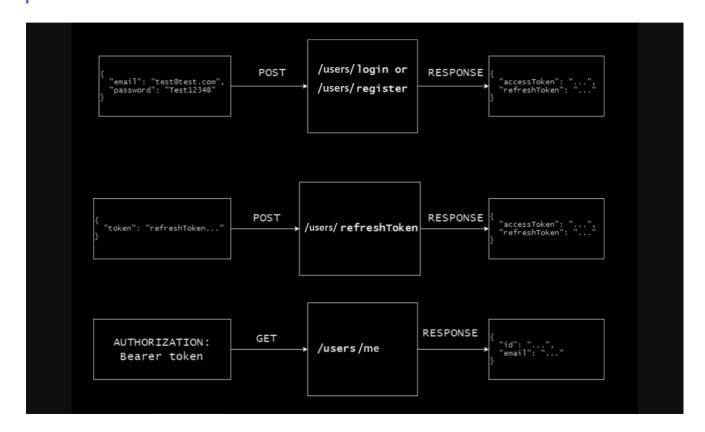
JWT

src/services/auth/Auth.ts

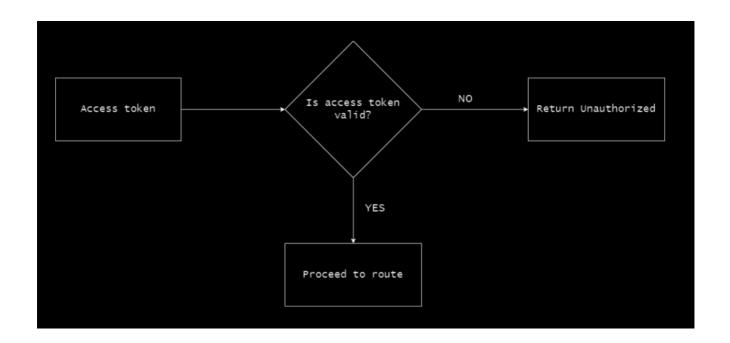
src/utils/jwt.ts

Authentication

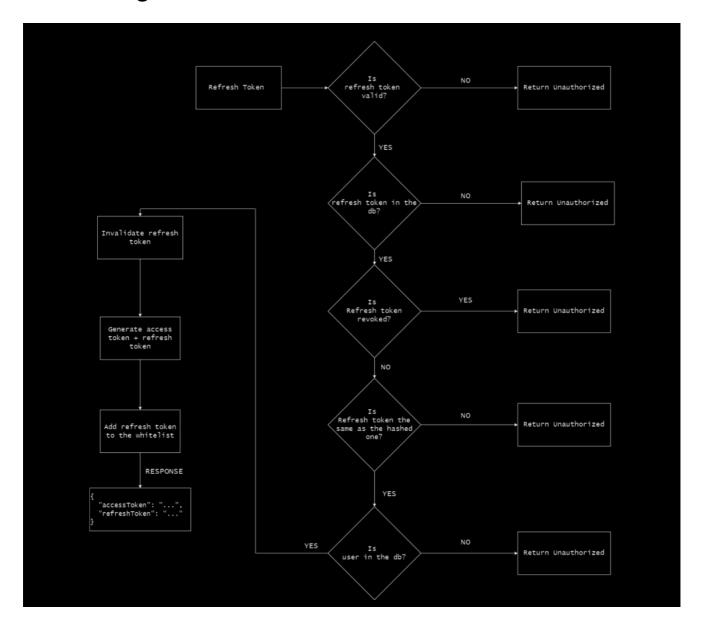
- Refresh Token allows for acquirement of more Access Tokens
 - Valid for 8 hours
 - Requires check against db per use
 - Revocation is immediate
- Access Token provides access to protected routes
 - Valid for 5 minutes
 - Does not require check against db per use
 - Revocation is not immediate: users could still use Access
 Token for up to 5 minutes even with revoked Refresh Token



Using access token



Refreshing both tokens



Logout would be achieved by clearing local storage on the client

Stock quantity constraint

Was made using Prisma's interactive transaction

src/services/receiptEntries/ReceiptEntry.ts

Password reset

After sending email in a POST request to /users/resetPassword:

- 1. Confirmation link is sent to the email
- 2. By clicking confirmation link, password is reset, tokens are revoked and newly generated password is sent to the email

Running

npm run migrate

npm run dev

Structure

Repository design pattern

- Application entry point at <u>core/app.ts</u>
- Models are defined at db/schema.prisma
- Controllers are defined at controllers/*
- Middlewares are defined at middleware/*
- Routes are defined at routes/*
- Services are defined at <u>services/*</u>
- Utility functions are defined at <u>utils/*</u>

Reference

- JWT Authentication using Prisma and Express
- JWT Decoder