

Shop system technical specification

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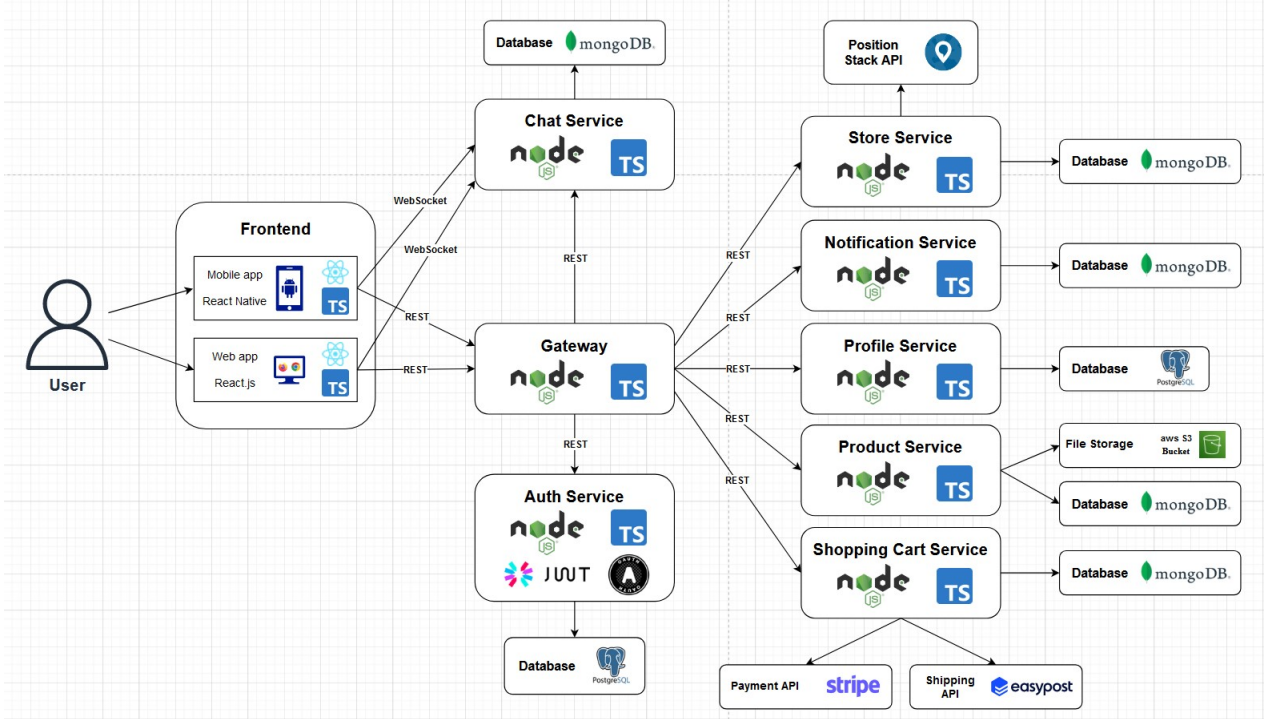
1 Abstract

This document contains the technical specification of a large-scale enterprise store system. The specification consists of a detailed discussion of the system architecture, highlighting its layers, nodes, modules, and main components. Each system module is thoroughly presented, including a description of its tasks and the technological requirements for implementation. Besides, the document presents the dependencies occurring between the modules and precisely specifies the ways and types of communication occurring in the system. Additionally, specification contains details about external interfaces. Finally, this document provides an approximation of the planned appearance of the application through detailed mockups of both the mobile and web versions. These mockups offer a visual representation of the user interface and user experience, illustrating the design, layout, and functionality that users can expect.

2 System architecture

The system consists of a backend built with a microservices architecture and two client applications: web and mobile. The backend is developed using the Node.js runtime and TypeScript language, but thanks to the microservices architecture, it is possible to use different languages and runtimes for future development as well. The web application is created using the React library, while the mobile app is implemented with React Native. This approach leverages the similarities between React and React Native, simplifying the development process and ensuring a consistent user experience across both platforms. All communication between services, except for chat, is implemented using standard REST APIs. Chats utilize WebSockets for real-time communication. Microservices provide the ability to easily scale and develop the application in the future, ensuring flexibility and adaptability as requirements evolve.

Figure 1: Overview diagram of the Store system architecture



2.1 Gateway

The Gateway is a single point of access for all clients, ensuring proper communication with each service and concealing implementation specifics from the frontend. It acts as a bridge between services, performing the necessary operations to efficiently fulfill requests. The Gateway API can easily combine data from different services to create the appropriate result needed by the user. It also provides security and performs the necessary authorization through close communication with the Auth service. It should also be noted that the gateway has no direct connection to any database and can be easily duplicated and used with a load balancer under heavy load.

2.2 Auth Service

The Auth API ensures a secure authentication and authorization process by utilizing OAuth 2.0 and JWT tokens. This enables an easy and secure connection between clients and other backend services. The Auth service is fully responsible for issuing, validating, and renewing tokens. It also connects to PostgreSQL database, which is essential for the proper management of user credentials.

2.3 Store Service

The Store service manages local stores and their locations by communicating with the external API, Position Stack. Position Stack provides a fast and straightforward geocoding solution, allowing us to map each address to precise coordinates, which enables users to view store locations on a map. Given the variability in location data, the Store service uses a non-relational MongoDB database. This choice allows for flexible data

management, accommodating changes and documents with different fields within a single collection.

2.4 Notification Service

The Notification Service is responsible for sending notifications to users. Its primary function is to distribute new marketing ads to email addresses. Additionally, it sends receipts or invoices after each purchase. The service also integrates closely with the mobile app through the gateway to deliver push notifications in real-time to users who have installed the app. To accommodate the evolving requirements, we have again chosen a MongoDB database for its flexibility and scalability.

2.5 Profile Service

The Profile service manages all user details, including data for customers, employees, and administrators. The Profile API utilizes a PostgreSQL database, as the clearly specified user account requirements make a relational database the best fit for ensuring data integrity and efficient querying.

2.6 Product Service

The Product service is currently the largest and most widely used API, responsible for managing all product data down to the smallest details. Due to the variability in product information, it utilizes a MongoDB database. The service employs text indexes and standard compound indexes to offer fast and accurate search and sorting capabilities, ensuring an efficient and responsive user experience. Additionally, the Product API leverages AWS S3 buckets to store and manage images for each product, ensuring reliable and scalable media storage.

2.7 Shopping Cart Service

The Shopping Cart Service is responsible for processing both online and local purchases. It works closely with the external Payment API, Stripe, and the Shipping API, EasyPost, to provide customers with various purchasing and shipping methods. Due to the differing details of each purchase, the Shopping Cart Service uses a MongoDB database to handle it efficiently.

2.8 Chat Service

The Chat service is currently final planned API. It provides users with ability to start a chat with automated bots, but also real human assistants. It also saves the entire chat history, allowing for data analysis to further optimize app and user experience.

3 Service Communication

This section details how the various services within the application communicate with each other, focusing on the use of RESTful APIs. It includes examples of REST

endpoints for different services, illustrating the methods and data formats used for inter-service communication. Please note that gateway endpoints are omitted, as they are very similar to the endpoints used by the services themselves.

3.1 Auth Service

POST /register

Register new account

Request:

Content:

email Valid available email address

firstName Valid first name

lastName Valid last name

password Valid secure password

```
{  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "password": "SecurePassword1!"  
}
```

Response:

200: *Successful registration*

Content:

id User id

email Email address used for registration

firstName First name used for registration

lastName Last name used for registration

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
}
```

400: *Missing fields*

400: *Invalid email format*

409: *Email is already used*

POST /register/employee

Register new employee account

Request:

Headers:

Access-Token Valid access token

Content:

email Valid available email address

firstName Valid first name

lastName Valid last name

password Valid secure password

accountType Valid account type

```
{  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "password": "SecurePassword1!",  
  "accountType": "ADMIN"  
}
```

Response:

200: *Successful registration*

Content:

id User id

email Email address used for registration

firstName First name used for registration

lastName Last name used for registration

accountType Selected account type

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "accountType": "ADMIN"  
}
```

400: *Missing fields*

400: *Invalid email format*

409: *Email is already used*

401: *Unauthorized*

403: *Forbidden*

POST /login

Login to account

Request:

Content:

email Valid available email address

password Valid secure password

```
{  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "password": "SecurePassword1!"  
}
```

Response:

200: *Successful login*

Content:

id User id

email User email address

firstName User first name

lastName User last name

accountType User account type

accessToken JWT access token

refreshAccessToken JWT refresh access token

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "accountType": "USER",  
  "accessToken": "eyJhbGciOi...",  
  "refreshAccessToken": "eyJhbGciOi..."  
}
```

400: *Missing fields*

401: *Invalid credentials*

403: *Account not activated*

429: *Too many login attempts*

POST /logout

Log out of account

Request:

Headers:

Refresh-Token Valid refresh access token

Response:

200: *Successful logout*

401: *Unauthorized*

DELETE /account

Delete user account

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted user account*

403: *Forbidden*

3.2 Store Service

GET /stores

Get list of stores

Request:

Headers:

totalCount Number of all elements

pageSize Page size

currentPage Number of current page

totalPages Number of all pages

firstItem First item identifier used for back pagination

lastItem Last item identifier used for next pagination

Response:

200: *Stores list*

Content:

sites [] Sites

id Site id

type Site type

location Site location

x Coordinate

y Coordinate

address Site address

country Site country

city Site city

zipCode Site zip code

street Site street

streetNumber Site street number

```
{
  "sites": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "type": "Store",
      "location": {
        "x": 52.222620,
        "y": 20.982963
      },
      "address": {
        "country": "Poland",
        "city": "Warsaw",
        "zipCode": "02-304",
        "street": "Aleje Jerozolimskie",
        "streetNumber": "107"
      }
    }
  ]
}
```

GET /sites

Get list of sites (stores + magazines etc.), used by employees

Request:

Headers:

Access-Token Valid access token
totalCount Number of all elements
pageSize Page size
currentPage Number of current page
totalPages Number of all pages
firstItem First item identifier used for back pagination
lastItem Last item identifier used for next pagination

Response:

200: *Sites list*

Content:

sites *//* Sites
id Site id
type Site type
location Site location
 x Coordinate
 y Coordinate
address Site address
 country Site country
 city Site city
 zipCode Site zip code
 street Site street
 streetNumber Site street number

```
{
  "sites": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "type": "Store",
      "location": {
        x: 52.222620,
        y: 20.982963
      },
      "address": {
        country: "Poland",
        city: "Warsaw",
        zipCode: "02-304",
        street: "Aleje Jerozolimskie",
        streetNumber: "107"
      }
    }
  ]
}
```

403: *Forbidden*

GET /sites/{id}

Get site details

Request:

Headers:

Access-Token Valid access token

Response:

200: *Site details*

Content:

id Site id

type Site type

location Site location

x Coordinate

y Coordinate

address Site address

country Site country

city Site city

zipCode Site zip code

street Site street

streetNumber Site street number

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"
  "type": "Store",
  "location": {
    x: 52.222620,
    y: 20.982963
  }
  "address": {
    country: "Poland",
    city: "Warsaw",
    zipCode: "02-304",
    street: "Aleje Jerozolimskie",
    streetNumber: "107"
  }
}
```

403: *Forbidden*

POST /sites/{id}

Create new site

Request:

Headers:

Access-Token Valid access token

Content:

type Site type

location Site location

x Coordinate

y Coordinate

address Site address

country Site country

city Site city

zipCode Site zip code

street Site street

streetNumber Site street number

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"
  "type": "Store",
  "location": {
    x: 52.222620,
    y: 20.982963
  }
  "address": {
    country: "Poland",
    city: "Warsaw",
    zipCode: "02-304",
    street: "Aleje Jerozolimskie",
    streetNumber: "107"
  }
}
```

Response:

200: *Successfully created site*

403: *Forbidden*

PUT /sites/{id}

Edit site

Request:

Headers:

Access-Token Valid access token

Content:

location Site location

x Coordinate

y Coordinate

```
{
  "location": {
    x: 52.222620,
    y: 20.982963
  }
}
```

Response:

200: *Successfully updated site*

Content:

id Site id

type Site type

location Site location

x Coordinate

y Coordinate **address** Site address

country Site country

city Site city

zipCode Site zip code

street Site street

streetNumber Site street number

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"
  "type": "Store",
  "location": {
    x: 52.222620,
    y: 20.982963
  }
  "address": {
    country: "Poland",
    city: "Warsaw",
    zipCode: "02-304",
    street: "Aleje Jerozolimskie",
    streetNumber: "107"
  }
}
```

403: *Forbidden*

DELETE /account

Delete site

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted site*

403: *Forbidden*

3.3 Notification Service

GET /consents

Get user consents for notifications

Request:

Headers:

Access-Token Valid access token

Response:

200: *User notification consents*

Content:

id User id

consents [] User notification consents

{type} Consent type

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"
  "consents": [
    "email": true,
    "sms": true,
  ]
}
```

403: *Forbidden*

POST /account

Create user account (used by gateway after successful registration)

Request:

Headers:

Access-Token Valid access token

Content:

id User id (assigned by Auth Service)

email User email address

firstName User first name

lastName User last name

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
}
```

Response:

200: *Successfully created user account*

Content:

id User id

email User email address

firstName User first name

lastName User last name

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith"  
}
```

400: *Missing fields*

403: *Forbidden*

PUT /consents

Update user consents for notifications

Request:

Headers:

Access-Token Valid access token

Content:

consents *//* User notification consents
{type} Consent type

```
{  
  "consents": [  
    "email": true,  
    "sms": true,  
  ]  
}
```

Response:

200: *Updated user consents for notifications*

Content:

id User id

consents *//* User notification consents
{type} Consent type

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "consents": [  
    "email": true,  
    "sms": true,  
  ]  
}
```

403: *Forbidden*

PUT /account

Update user account details (dependent on changes made to the Profile service)

Request:

Headers:

Access-Token Valid access token

Content:

firstName User first name

lastName User last name

age User age

```
{  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": "24"  
}
```

Response:

200: *Updated user details*

Content:

id User id

email User email address

firstName User first name

lastName User last name

age User age

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": "24"  
}
```

403: *Forbidden*

DELETE /account

Delete user account

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted user account*

403: *Forbidden*

3.4 Profile Service

GET /account

Get user own account details

Request:

Headers:

Access-Token Valid access token

Response:

200: *User details*

Content:

id User id

email User email address

firstName User first name

lastName User last name

age User age

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": "24"  
}
```

403: *Forbidden*

GET /account/{email}

Get user account details (for employees)

Request:

Headers:

Access-Token Valid access token

Response:

200: *User details*

Content:

id User id

email User email address

firstName User first name

lastName User last name

age User age

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": "24"  
}
```

403: *Forbidden*

POST /account

Create user account (used by gateway after successful registration)

Request:

Headers:

Access-Token Valid access token

Content:

id User id (assigned by Auth Service)

email User email address

firstName User first name

lastName User last name

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
}
```

Response:

200: *Successfully created user account*

Content:

id User id

email User email address

firstName User first name

lastName User last name

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith"  
}
```

400: *Missing fields*

403: *Forbidden*

PUT /account

Update user account details

Request:

Headers:

Access-Token Valid access token

Content:

firstName User first name

lastName User last name

age User age

```
{  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": "24"  
}
```

Response:

200: *Updated user details*

Content:

id User id

email User email address

firstName User first name

lastName User last name

age User age

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
  "email": "example@gmail.com",  
  "firstName": "John",  
  "lastName": "Smith",  
  "age": "24"  
}
```

403: *Forbidden*

DELETE /account

Delete user account

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted user account*

403: *Forbidden*

3.5 Product Service

GET /product/{category}/{subctegory}?maxPrice=300&sort=high-price

Get list of products

Request:

Headers:

totalCount Number of all elements

pageSize Page size

currentPage Number of current page

totalPages Number of all pages

firstItem First item identifier used for back pagination

lastItem Last item identifier used for next pagination

Response:

200: *Products list*

Content:

chats *[]* Chat history array

id Product id

name Product name

price Product price

priceCurrency Price Currency

image Product image

url Image url

category Main category of product

type Category type

subcategory Subcategory of product

type Subcategory type

```
{
  "products": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "name": "shoes1X",
      "price": "200",
      "priceCurrency": "pln",
      "image": {
        "url": "https://eu-central-1.console.aws.amazon.com//665d9d6..."
      }
      "category": {
        "type": "Shoes",
        "subcategory": {
          "type": "Running"
        }
      }
    }
  ]
}
```

GET /product/{id}

Get product details

Response:

200: *Product details*

Content:

id Product id

name Product name

description Product description

price Product price

priceCurrency Price Currency

images [] Product images array

url Image url

category Main category of product

type Category type

subcategory Subcategory of product

type Subcategory type

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
  "name": "shoes1X",
  "description": "Comfortable shoes for running",
  "price": "200",
  "priceCurrency": "pln",
  "images": [
    {
      "url": "https://eu-central-1.console.aws.amazon.com//665d9d6..."
    }
  ]
  "category": {
    "type": "Shoes",
    "subcategory": {
      "type": "Running"
    }
  }
}
```


POST /product

Create product

Request:

Headers:

Access-Token Valid access token

Content:

name Product name

description Product description

price Product price

priceCurrency Price Currency

category Main category of product

type Category type

subcategory Subcategory of product

type Subcategory type

```
{
  "name": "shoes1X",
  "description": "Comfortable shoes for running",
  "price": "200",
  "priceCurrency": "pln",
  "category": {
    "type": "Shoes",
    "subcategory": {
      "type": "Running"
    }
  }
}
```

Response:

200: *Successfully created product*

id Product id

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"
}
```

400: *Missing fields*

403: *Forbidden*

PUT /product/{id}

Update product details

Request:

Headers:

Access-Token Valid access token

Content:

cost Product cost

```
{  
  "cost": "200"  
}
```

Response:

200: *Updated user details*

Content:

id Product id

name Product name

description Product description

price Product price

priceCurrency Price Currency

category Main category of product

type Category type

subcategory Subcategory of product

type Subcategory type

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11"  
  "name": "shoes1X",  
  "description": "Comfortable␣shoes␣for␣running",  
  "price": "200",  
  "priceCurrency": "pln",  
  "category": {  
    "type": "Shoes",  
    "subcategory": {  
      "type": "Running"  
    }  
  }  
}
```

403: *Forbidden*

DELETE /product

Delete product

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted product*

403: *Forbidden*

POST /order

Create an order and block selected products

Request:

Content:

id Order id

products [] Selected products

id Product id

quantity Amount of selected products

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
  "products": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "quantity": 1
    }
  ]
}
```

Response:

200: *Successfully created an order*

410: *Products are not available*

POST /order/cancel

Cancel the order and unblock selected products

Request:

Content:

id Order id

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
}
```

Response:

200: *Successfully cancelled an order*

404: *Order does not exist*

POST /order/finish

Finalize the order and permanently remove the selected products from the Product Service

Request:

Content:

id Order id

```
{  
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",  
}
```

Response:

200: *Successfully finalized an order*

404: *Order does not exist*

3.6 Shopping Cart Service

GET /order

Get list of orders

Request:

Headers:

Access-Token Valid access token

Response:

200: *Orders list*

Content:

orders *[]* Orders list

id Order id

price Total order price

date Order creation date

```
{
  "orders": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "price": 200,
      "date": "2024-07-25T15:30:00Z"
    }
  ]
}
```

403: *Forbidden*

GET /order/{id}

Get order details

Request:

Headers:

Access-Token Valid access token

Response:

200: *Order details*

Content:

id Order id

products *[]* Selected products

id Product id

quantity Amount of selected products

price Product price

price Total order price

discount Product discount

discount Total order discount

userDetails Customer details

deliveryAddress Delivery address

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
  "products": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "quantity": 1,
      "price": 200,
      "discount": 10,
    }
  ],
  "price": 200,
  "discount": 10,
}
```

404: *Order does not exist*

POST /order

Create an order

Request:

Content:

id Order id

products *//* Selected products

id Product id

quantity Amount of selected products

price Product price

price Total order price

discount Product discount

discount Total order discount

date Order creation date

userDetails Customer details

deliveryAddress Delivery address

```
{
  "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
  "products": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "quantity": 1
      "price": 200,
      "discount": 10,
    }
  ]
  "price": 200,
  "discount": 10,
  "date": "2024-07-25T15:30:00Z"
}
```

Response:

200: *Successfully created an order*

POST /order/{id}/cancel

Cancel the order

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully cancelled an order*

404: *Order does not exist*

PUT /order/{id}

Update order status

Request:

Headers:

Access-Token Valid access token

Content:

status 'in-delivery'

```
{  
  "status": "in-delivery"  
}
```

Response:

200: *Successfully updated order*

404: *Order does not exist*

3.7 Chat Service

GET /history?page={number}¤tPage={number}&item={date}

Get chat history

Request:

Access-Token Valid access token

Response:

200: *Chat history*

Headers:

Access-Token Valid access token

totalCount Number of all elements

pageSize Page size

currentPage Number of current page

totalPages Number of all pages

firstItem First item identifier used for back pagination

lastItem Last item identifier used for next pagination

Content:

chats [] Chat history array

id Chat id

firstMessage First message

creationDate Start date of chat

```
{
  "chats": [
    {
      "id": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "firstMessage": "Hello, I have a problem with last order",
      "creationDate": "2024-07-25T15:30:00Z",
    }
  ]
}
```

403: *Forbidden*

GET /history/{id}

Get chat messages

Response:

200: *Chat history*

Headers:

Access-Token Valid access token

totalCount Number of all elements

pageSize Page size

currentPage Number of current page

totalPages Number of all pages

firstItem First item identifier used for back pagination

lastItem Last item identifier used for next pagination

Content:

messages *//* Chat messages array

content Message content

date Message date

senderId Id of message sender

senderName Name of message sender

```
{
  "messages": [
    {
      "content": "Hello ,I have a problem with last order",
      "date": "2024-07-25T15:30:00Z",
      "senderId": "a0eebc99-9c0b-4ef8-bb6d-6bb9bd380a11",
      "senderName": "John Smith",
    }
  ]
}
```

403: *Forbidden*

DELETE /history/

Delete whole user chat history

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted chat history*

403: *Forbidden*

DELETE /history/{id}

Delete chat

Request:

Headers:

Access-Token Valid access token

Response:

200: *Successfully deleted chat*

403: *Forbidden*