DOKUMENTACJA PROJEKTU ALLEDRO

1. Uruchamianie aplikacji

Aby uruchomić aplikację:

- cd app
- npm install
- ng serve

Następnie:

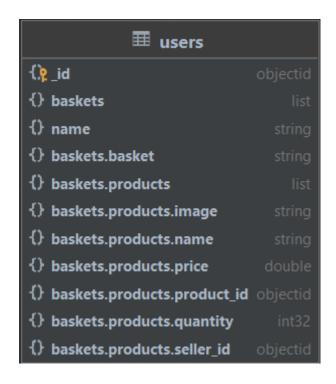
- cd MongoClient
- npm install
- node server.js

2. Baza danych:

Aplikacja korzysta z bazy noSQL, MongoDB.

Baza danych posiada 3 kolekcje:

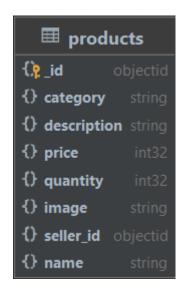
```
Users:
   {
    name: string;
    baskets: Basket{
      basket: string;
      products: Product{
        _id: ProductID;
        category: string;
        description: string;
        image: Url;
        name: string;
        price: number;
        quantity: number;
        seller_id: string;
     };
    };
   };
```



Służy do przechowywania informacji o użytkowniku oraz jego koszykach.

Przykładowe dane:

```
Products:
{
    category: string;
    description: string;
    image: Url;
    name: string;
    price: number;
    quantity: number;
    seller_id: string;
}
```



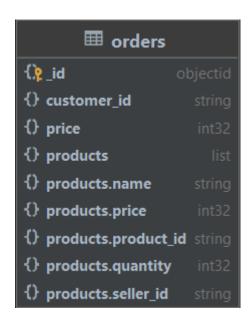
Przechowuje informacje o produktach.

Przykładowe dane:

```
{
    "_id": {"$oid": "645b663cd279a010167b4d8d"},
    "category": "Zabawki",
    "description": "",
    "image": "https://a.allegroimg.com/s512/110c1f/87f8ec464a3d959fd29438faea0e/Figurka-Funko-Pop-Marvel-Groot",
    "name": "Maly groot",
    "price": 23,
    "quantity": 50,
    "seller_id": {"$oid": "6463e9f01e07984af0f036dc"}
},

{
    "_id": {"$oid": "645b66fed279a010167b4d8e"},
    "category": "Zabawki",
    "description": "",
    "image": "https://liderking.pl/images/liderking-shop/151000-152000/Mega-Duzy-Puszowy-Mis_%5B151500%5D_480.jpg"
    "name": "Duży pluszowy miś",
    "price": 90,
    "quantity": 19,
    "seller_id": {"$oid": "6463ea0e1e07984af0f036dd"}
},
```

```
Orders:
{
    customer_id: string,
    price: number,
    products: [
        {
            product_id: string,
            name: string,
            seller_id: string,
            quantity: number,
            price: number
        }
        ]
    },
}
```



Przechowuje informacje o zamówieniach

Przykładowe dane:

3. Zapytania do bazy:

Pozyskanie kolekcji Products:

```
app.get('/products', async (req, res) => {
    try {
        await client.connect();
        await client.db('OnlineShop').command({ping: 1});
        console.log('Pinged your deployment. You successfully connected to MongoDB!');
        const productsCollection = client.db('OnlineShop').collection('products');
        const products = await productsCollection.find().toArray();
        const count = await productsCollection.countDocuments();
        console.log(products);
       console.log(count);
        res.json({products, count});
    } catch (error) {
        console.error(error);
        res.status(500).send('Internal Server Error');
    } finally {
       await client.close();
});
```

Pozyskanie konkretnego produktu:

```
app.get('/product/:id', async (req, res) => {
   const productID = req.params.id;
    if (!productID)
        res.status(400).json({error: 'Incorrect product id.'});
    try {
        await client.connect();
       const productsCollection = client.db('OnlineShop').collection('products');
       const product = await productsCollection.findOne({ id: new ObjectId(productID)});
        if (product)
            res.json(product);
            res.status(404).json({error: 'Product not found.'});
    } catch (err) {
        console.log(err);
        res.status(500).json({error: 'Failed to find product.'});
    } finally {
       await client.close();
});
```

Pozyskanie konkretnego użytkownika:

```
app.get('/user/:userID', async (req, res) => {
    const userID = req.params.userID;
    if (!userID)
        res.status(400).json({error: 'Incorrect user id.'});
    try {
        await client.connect();
        const usersCollection = client.db('OnlineShop').collection('users');
       const user = await usersCollection.findOne({_id: new ObjectId(userID)});
       if (user)
            res.json(user);
        else
            res.status(404).json({error: 'User not found.'});
    } catch (err) {
       console.log(err);
        res.status(500).json({error: 'Failed to find user.'});
    } finally {
       await client.close();
```

Pozyskanie zamówień użytkownika:

```
app.get('/orders/:user id', async (req, res) => {
 const user_id = req.params.user_id;
 try {
   await client.connect();
   await client.db("OnlineShop").command({ ping: 1 });
   console.log("Pinged your deployment. You successfully connected to MongoDB!");
   const ordersCollection = client.db("OnlineShop").collection("orders");
   const orders = await ordersCollection.find({customer_id: user_id}).toArray();
   const count = await ordersCollection.countDocuments();
   console.log(orders);
   console.log(count);
   res.json({products: orders, count});
 } catch (error) {
   console.error(error);
   res.status(500).send('Internal Server Error');
 } finally {
   await client.close();
```

Pozyskanie produktów sprzedawanych przez użytkownika:

```
app.get('/products/:user_id', async (req, res) => {
   const user_id = req.params.user_id;
   try {
       await client.connect();
        await client.db('OnlineShop').command({ping: 1});
        console.log('Pinged your deployment. You successfully connected to MongoDB!');
       const productsCollection = client.db('OnlineShop').collection('products');
       const products = await productsCollection.find().toArray();
       const count = await productsCollection.countDocuments();
       const usersCollection = client.db('OnlineShop').collection('users');
       const user = await usersCollection.find({_id: new ObjectId(user_id)}).toArray();
       console.log(products);
       console.log(count);
       console.log(user);
        res.json({products, count, user});
    } catch (error) {
       console.error(error);
        res.status(500).send('Internal Server Error');
       await client.close();
```

Pozyskanie koszyka:

```
app.get('/cart', async (req, res) => {
    try {
        await client.connect();
        await client.db('OnlineShop').command({ping: 1});
        console.log('Pinged your deployment. You successfully connected to MongoDB!');

        const cartCollection = client.db('OnlineShop').collection('cart');
        const products = await cartCollection.find().toArray();
        console.log(products);

        res.json(products);

    }
} catch (error) {
        console.error(error);
        res.status(500).send('Internal Server Error');
} finally {
        await client.close();
}
});
```

Pozyskanie produktów z koszyka:

```
app.get('/cart_item', async (req, res) => {
    try {
       await client.connect();
        await client.db('OnlineShop').command({ping: 1});
        console.log('Pinged your deployment. You successfully connected to MongoDB!');
       const cartItemsCollection = client.db('OnlineShop').collection('cart_item');
        const cartItems = await cartItemsCollection.aggregate([
                $lookup: {
                    from: 'products',
                    localField: 'product_id',
                    foreignField: '_id',
                    as: 'product'
        ]).toArray();
        console.log(cartItems);
        res.json(cartItems);
    } catch (error) {
        console.error(error);
        res.status(500).send('Internal Server Error');
       await client.close();
```

Aktualizacja konkretnego produktu (zmiana dostępnej ilości):

```
app.put('/products/:id', async (req, res) => {
   console.log('weszlo');
   const id = req.params.id;
   const update = {$set: {'quantity': req.body.quantity}};
   try {
       await client.connect();
        const productsCollection = client.db('OnlineShop').collection('products');
        const result = await productsCollection.updateOne({ id: new ObjectId(id)}, update);
        if (result.modifiedCount === 1) {
           res.json({message: 'Product updated successfully.'});
        } else {
            res.status(404).json({error: 'Product not found.'});
    } catch (err) {
        console.log(err);
        res.status(500).json({error: 'Failed to update product.'});
    } finally {
       await client.close();
});
```

Dodawanie produktu do koszyka:

```
app.put('/users/:id', async (req, res) => {
   console.log('cart post');
   const id = req.params.id;
   const basket name = req.body.basket name;
   const newBasketItem = {
       product_id: new ObjectId(req.body._id),
       name: req.body.name,
       quantity: req.body.quantity,
       price: req.body.price,
       image: req.body.image,
       seller_id: new ObjectId(req.body.seller_id)
    console.log(newBasketItem);
    try {
       await client.connect();
       const filter = { id: new ObjectId(id), 'baskets.basket': basket name};
       const update = {$push: {'baskets.$.products': newBasketItem}};
       const basketItemsCollection = client.db('OnlineShop').collection('users');
       const result = await basketItemsCollection.updateOne(filter, update);
       console.log(`${result.modifiedCount} document(s) updated`);
    } catch (err) {
       console.log(err);
       res.status(500).json({error: 'Failed to add product to basket.'});
       await client.close();
```

Usuwanie produktu z koszyka:

```
app.put('/del_product/:basket', async (req, res) => {
   console.log('cart post');
   const user_id = req.body.user_id;
   const product_id = req.body.product_id;
   const basket = req.params.basket;
   try {
       await client.connect();
       const filter = { id: new ObjectId(user_id), 'baskets.basket': basket};
       const update = {$pull: {'baskets.$.products': {product_id: new ObjectId(product_id)}}};
       const usersCollection = client.db('OnlineShop').collection('users');
       const result = await usersCollection.updateOne(filter, update);
       console.log(`${result.modifiedCount} document(s) updated`);
       const user = await usersCollection.find({ id: new ObjectId(user id)}).toArray();
       console.log(user);
       res.json(user);
    } catch (err) {
       console.log(err);
       res.status(500).json({error: 'Failed to add product to basket.'});
     finally {
       await client.close();
```

Usuwanie koszyka:

```
app.put('/del basket', async (req, res) => {
    console.log('delete basket');
    const user id = req.body.user id;
    const name = req.body.name;
    try {
       await client.connect();
       const filter = {_id: new ObjectId(user_id)};
        const update = {$pull: {baskets: {basket: name}}};
        const usersCollection = client.db('OnlineShop').collection('users');
        const result = await usersCollection.updateOne(filter, update);
        console.log(`${result.modifiedCount} document(s) updated`);
        const user = await usersCollection.find({ id: new ObjectId(user id)}).toArray();
        console.log(user);
        res.json(user);
    } catch (err) {
        console.log(err);
        res.status(500).json({error: 'Failed to add product to basket.'});
        await client.close();
```

Dodawanie koszyka

```
app.put('/add_basket/:id', async (req, res) => {
   console.log('cart post');
   const user_id = req.params.id;
   const basket_name = req.body.name;
   const newBasket = {
       basket: basket_name,
       products: []
   try {
       await client.connect();
       const filter = {_id: new ObjectId(user_id)};
       const update = {$push: {baskets: newBasket}};
       const usersCollection = client.db('OnlineShop').collection('users');
       const result = await usersCollection.updateOne(filter, update);
       console.log(`${result.modifiedCount} document(s) updated`);
       const user = await usersCollection.find({_id: new ObjectId(user_id)}).toArray();
       console.log(user);
       res.json(user);
    } catch (err) {
       console.log(err);
        res.status(500).json({error: 'Failed to add new basket.'});
       await client.close();
});
```

Kupowanie produktu:

```
app.put('/buy_product', async (req, res) => {
    console.log('buy product');
   const customer_id = req.body.customer_id;
   const price = req.body.price * req.body.quantity;
   const basket = req.body.basket;
    const new_product =
        product_id: req.body.product_id,
        name: req.body.name,
        seller_id: req.body.seller_id,
        quantity: req.body.quantity,
        price: req.body.price
    const newOrder = {
        customer id: customer id,
        products: [new_product],
        price: price
        await client.connect();
        const productsCollection = client.db('OnlineShop').collection('products');
        const ordersCollection = client.db('OnlineShop').collection('orders');
        const usersCollection = client.db('OnlineShop').collection('users');
        const product = await productsCollection.find({_id: new ObjectId(new_product.product_id)}).toArray();
        const diff = parseFloat(product[0].quantity) - parseFloat(new_product.quantity);
       console.log(diff);
      console.log(product[0].quantity);
       console.log(new_product.quantity);
       const result = await productsCollection.updateOne({_id: new ObjectId(new_product.product_id)}, {$set: {'quantity': diff}});
      if (result.modifiedCount === 1) {
    res.json({message: 'Product updated successfully.'});
          res.status(404).json({error: 'Product not found.'});
      const filter = {_id: new ObjectId(customer_id), 'baskets.basket': basket};
      const update = {$pull: {'baskets.$.product_id: new ObjectId(new_product_id)}}};
const del_bas = await usersCollection.updateOne(filter, update);
      console.log(`${del_bas.modifiedCount} document(s) updated`);
       // add to orders
      const add ord = await ordersCollection.insertOne(newOrder);
      console.log(err);
       res.status(500).json({error: 'Failed to update product.'});
```

Filtrowanie produktów:

```
app.post('/filterproducts', async (req, res) => {
 const name = req.body.name;
 const category = req.body.category;
 const min_price = req.body.min_price;
 const max_price = req.body.max_price;
 console.log("filters");
 try {
   await client.connect();
   await client.db("OnlineShop").command({ ping: 1 });
   console.log("Pinged your deployment. You successfully connected to MongoDB!");
   const productsCollection = client.db("OnlineShop").collection("products");
   if (name && category) {
     console.log("name and category");
     filters = {name: name, category: category, price: {$gte: min price, $lte: max price}};
   else if (category) {
     console.log("cat'
     filters = {category: category, price: {$gte: min_price, $lte: max_price}};
   else if (name) {
     console.log("name");
     filters = {name: name, price: {$gte: min price, $lte: max price}};
     console.log("no");
     filters = {price: {$gte: min_price, $lte: max_price}};
```

```
const products = await productsCollection.find(filters).toArray();
console.log(products);
// const count = await productsCollection.countDocuments();
const count = products.length;
console.log(count);
res.json({products, count});

} catch (error) {
console.error(error);
res.status(500).send('Internal Server Error');
} finally {
await client.close();
}
});
```

4. Warstwa wizualna:

Warstwa wizualna składa się z komponentów:

Menu-bar

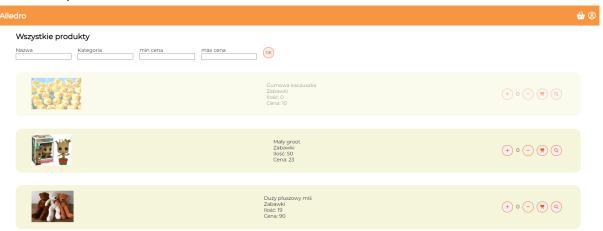
Alledro





Z którego można przejść do ekranu głównego (napis Alledro), koszyków użytkownika (koszyk) oraz informacji o użytkowniku (kółko z ludzikiem)

All-products



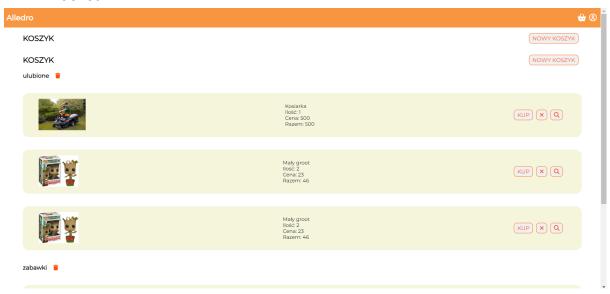
Jest równocześnie stroną startową. Z poziomu tej strony można dodawać produkty do koszyka, filtrować po odpowiednich polach oraz przejść do widoku indywidualnego produktu.

Product-info



Strona dedykowana do informacji o danym produkcie.

Basket



Pokazuje stan koszyków użytkownika.

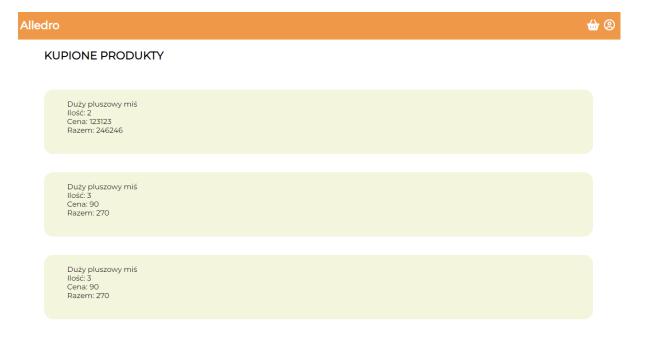
User-info

Alledro



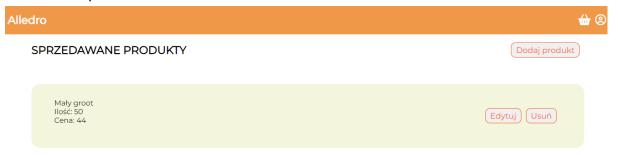
Widok informacji o użytkowniku. Z tego poziomu można przejść do zakupionych, oraz sprzedawanych produktów użytkownika.

• Purchased-product-list



Widok ten posiada informacje o zakupionych produktach przez użytkownika.

Sold-product-list



Widok ten posiada informacje o produktach sprzedawanych przez użytkownika

Add-product



Widok ten posiada możliwość dodania nowego produktu

• Edit-product



Widok ten posiada możliwość modyfikacji produktu

Page-not-found



404 PAGE NOT FOUND

Widok ten wyskoczy gdy nastąpi próba przejścia do nieistniejącej strony w naszej domenie.