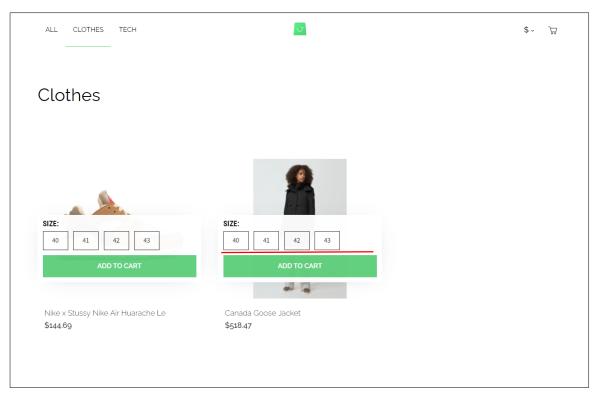
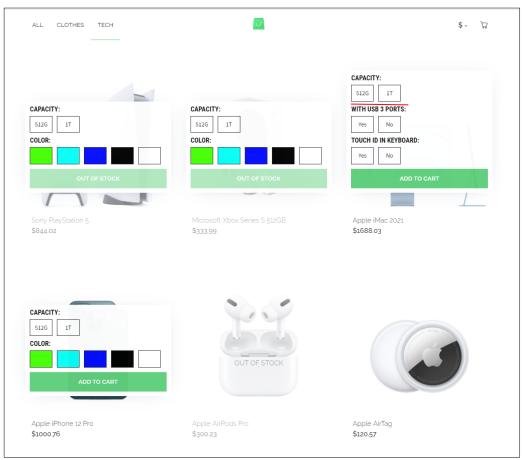
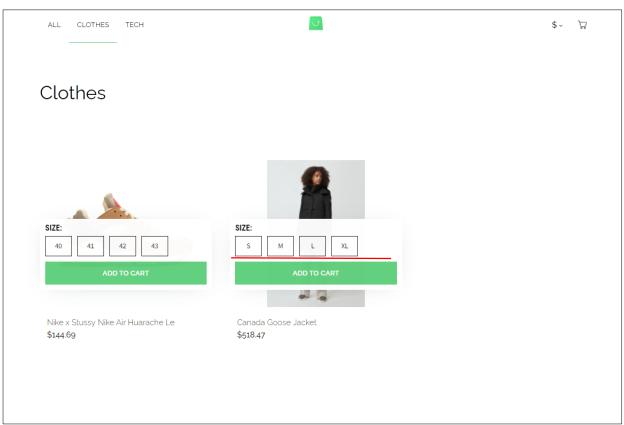
While I was working on fixing the assignment, an error was found in the code of endpoint-server. But, of course, that may be the intention. However, I decided to share with you what was found.

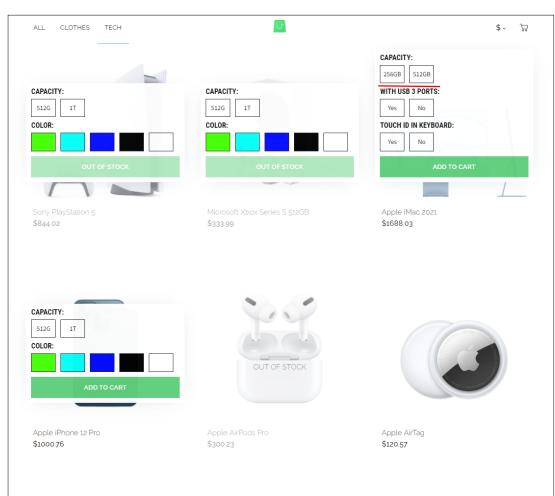
If use ApolloClient by default to get data of category products we will have such result. It's about product attributes with the same Id (name).





But attributes should be like this:





This happens because Apollo's algorithm for optimization saves in the cache data with the same __typename and id as the same. Despite the content.

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                                                          ADD CONFIGURATION... | # (*) | Git: * > 40 40 | \(\bar{\Delta}\)
 (§) app.js × ■ product-listing-page.js × ■ graphql-service.js × ■ product-card.js × ■ index.ts × ■ attribute-set.ts ×
          import ...
          const shoeSizes = new AttributeSet( name: 'Size')
              .addItemList( items: [
  9
                  new Attribute( displayValue: '40'),
                  new Attribute( displayValue: '41'),
 11
                 new Attribute( displayValue: '42'),
 12
 13
                  new Attribute( displayValue: '43')
           1):
 14
 15
         const clothesSizes = new AttributeSet( name: 'Size')
 17
 18
             .addItemList( items: [
                  new Attribute( displayValue: 'Small', value: 'S'),
 19
                  new Attribute( displayValue: 'Medium', value: 'M'),
 20
 21
                  new Attribute( displayValue: 'Large', value: 'L'),
                  new Attribute( displayValue: 'Extra Large', value: 'XL')
 22
            ]);
 23
 24
 25
          const colors = new AttributeSet( name: 'Color')
             .setType(AttributeType.swatch)
 26
              .addItemList( items: [
               new Attribute( displayValue: 'Green', value: '#44FF03'),
 28
 29
                  new Attribute( displayValue: 'Cyan', value: '#03FFF7').
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```

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Iools VC$ Window Help Scandiweb-Entry-React-developer-TEST [...\Scandiweb-Entry-React-developer-TEST] - ...\attribute-set.ts
-react-endpoint > 📷 src > 💼 data > 📭 model > 📆 attribute-set.ts > ADD CONFIGURATION... 🕨 🐞 🕦 🔳 Git: 😲 ≽ 🕙 😥
export enum AttributeType {
          text = 'text',
          swatch = 'swatch'
5
6
      class AttributeSet {
8
          protected id: string;
10
          protected items: Attribute[] = [];
11
          protected type: AttributeType = AttributeType.text;
12
13
          constructor(
14
              protected name: string
15
              this.id = name;
16
17
18
19
          addItem(item: Attribute) {
20
            this.items.push(item);
21
              return this:
24
25
          addItemList(items: Attribute[]) {
              this.items.push(...items);
       AttributeSet > constructor() > id
TypeScript 4.2.4 Terminal
                                                                                             2 Event Log
                                                    Atom One Light 15 chars 16:9 LF UTF-8 4 spaces Git: main 🔓 💆
```

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 Iools VCS Window Help Scandiweb-Entry-React-developer-TEST [...\GitHub\Scandiweb-Entry-React-developer-TEST] - ...\index.ts
ior-react-endpoint > 🔯 src > 📠 data > 📆 index.ts >
                                                         ADD CONFIGURATION... ▶ # • Git: ♀ ▶ • • • □
  (§) app.js × Js product-listing-page.js × Js graphql-service.js × Js product-card.js × Ts index.ts × Ts attribute-set.ts ×
                   .addAttributeSet(capacity)
 107
                   .setDescription(xboxDescription)
 108
                   .setCategory(Category.tech),
 109
 110
               new Product( name: 'iMac 2021')
 111
                   .setId('apple-imac-2021')
                   .setPrice(1400)
 112
 113
                   .setBrand('Apple')
 114
                   .addImages( urls: [
 115
                        'https://store.storeimages.cdn-apple.com/4982/as-images.apple.com/is/imac-24-blue-selection
                   1)
 116
                   .addAttributeSet(new AttributeSet( name: 'Capacity')
 117
                        .addItem(new Attribute( displayValue: '256GB'))
 118
                        .addItem(new Attribute( displayValue: '512GB'))
 119
 120
                   )
 121
                   .setDescription('The new iMac!')
                   .addAttributeSet(new AttributeSet( name: 'With USB 3 ports').addItemList(yesNo))
                   .addAttributeSet(new AttributeSet( name: 'Touch ID in keyboard').addItemList(yesNo))
 123
 124
                   .setCategory(Category.tech),
 125
               new Product( name: 'iPhone 12 Pro')
 126
 127
                   .setId('apple-iphone-12-pro')
 128
                   .setPrice(830)
                    catRrand('Annla')
 120
  TypeScript 4.2.4 Terminal
                                                                                                            2 Event Log
                                                  Atom One Light 135 chars, 2 line breaks 117:9 LF UTF-8 4 spaces Git: main 🔓 💆
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                                                       ADD CONFIGURATION... ▶ # ⊕ Git: ♀ ▶ ⊕ ᡚ 🔽 🔍
 .auurtemerst( items. [
                  new Attribute( displayValue: 'Green', value: '#44FF03'),
  28
  29
                  new Attribute( displayValue: 'Cyan', value: '#03FFF7'),
                  new Attribute( displayValue: 'Blue', value: '#030BFF'),
  30
  31
                  new Attribute( displayValue: 'Black', value: '#000000'),
  32
                  new Attribute( displayValue: 'White', value: '#FFFFFF')
  33
              1):
          const yesNo = [new Attribute( displayValue: 'Yes'), new Attribute( displayValue: 'No')];
  35
  36
          const capacity = new AttributeSet( name: 'Capacity')
  37
               addItemList( items: [
  38
                  new Attribute( displayValue: '512G'),
  39
                  new Attribute( displayValue: '1T')
  40
  41
  42
  43
          const products: Product[] = [
              new Product( name: 'Nike Air Huarache Le')
  44
  45
                  .setId('huarache-x-stussy-le')
  46
                  .setPrice(120)
  47
                  .setDescription('Great sneakers for everyday use!')
  48
                  .addImages( urls: [
                       https://cdn.shopify.com/s/files/1/0087/6193/3920/products/DD1381200_DEOA_2_720x.jpg?v=161
  49
                       https://cdn.shopify.com/s/files/1/0087/6193/3920/products/DD1381200_DEOA_1_720x.jpg?v=161
  TypeScript 4.2.4 Terminal
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                                                 Atom One Light 131 chars, 4 line breaks 37:1 LF UTF-8 4 spaces Git: main 🔓 💆
```

I see 3 ways to solve the problem:

- 1. Rename attributes with the same names on the server. ("Size" to "Size-clothes" for clothes and "Capacity" to "Capacity-iMac" for iMac) for example. Identifier for different data must be unique.
- 2. Set manually the algorithm for naming the same data in Apollo properties to cache them.
- 3. Disable cache usage.

I chose the third option, although the first would be the most optimal. Because the second is probably not appropriate here. I think.