```
1 #include "Controller.h"
 2 #include <algorithm>
 3 #include <vector>
 4 #include <iterator>
 6 /// ----- Repository ----- ///
   void Controller::addCoatToRepository(const std::string & ID, const int & size, →
     const std::string & colour, const double & price, const int & quantity, const →
      std::string & link)
9
10
       Coat coat{ ID, size, colour, price, quantity, link };
11
       this->repo.addCoat(coat);
12
13
14
   void Controller::removeCoatFromRepository(const std::string & ID)
15
       this->repo.removeCoatByID(ID);
16
17
18
   void Controller::updateCoatToRepository(const std::string & ID, const double & →
     new_price, const int & new_quantity, const std::string & new_link)
20
21
       Coat existingCoat = this->repo.findByID(ID);
22
       Coat newCoat{ ID, existingCoat.getSize(), existingCoat.getColour(),
         new_price, new_quantity, new_link };
23
       this->repo.updateCoat(ID, newCoat);
24
25
26
   /// ----- Shopping Cart ----- ///
27
28 void Controller::clearProducts()
29
30
       this->cart.clearProducts();
31
32
   void Controller::addAllAvailableCoats()
33
34
35
       // C++11 method
36
       //std::for_each(this->getAllCoats().begin(), this->getAllCoats().end(),
         this->cart.addAvailableCoats);
37
       for (auto&& coat : this->getAllCoats()) {
           this->cart.addAvailableCoats(coat);
38
39
40
41
       /* Classic method
       std::vector<Coat> coats = getAllCoats();
42
43
       for (int i = 0; i < coats.size(); i++) {</pre>
44
45
           this->cart.addAvailableCoats(coats[i]);
46
47
48
49
   void Controller::addAllSizeCoats(const int & size)
50
51
52
       // C++11 method
53
       std::vector<Coat> coats_source = this->getAllCoats();
54
       std::vector<Coat> coats_dest;
       std::copy_if(coats_source.begin(), coats_source.end(), std::back_inserter
55
          (coats dest), [&](Coat c) {return c.getSize() == size; });
```

```
...nchCoats-GUI\OOP - ProperTrenchCoats-GUI\Controller.cpp
```

```
2
```

```
56
        for (auto&& coat : coats dest) {
57
            this->cart.addAvailableCoats(coat);
58
59
       // Classic method
60
        /*std::vector<Coat> coats = getAllCoats();
61
        for (int i = 0; i < coats.size(); i++) {</pre>
62
63
            if (coats[i].getSize() == size)
64
                this->cart.addAvailableCoats(coats[i]);
        }*/
65
66
67
68
69 void Controller::addCoatToCart(const Coat & c)
70
        this->cart.add(c);
71
72
73
74
   void Controller::startShopping()
75
76
        this->cart.start();
77
78
79 void Controller::nextCoatShopping()
80
81
        this->cart.next();
82
83
84 void Controller::buyProducts()
85
        std::vector<Coat> coatsInCart = this->cart.getCartContents();
86
87
        for (int i = 0; i < coatsInCart.size(); i++) {</pre>
88
            this->repo.sellCoatByID(coatsInCart[i].getID());
89
90
        this->eraseCart();
91
        this->cart.clearProducts();
92
93
94 void Controller::eraseCart()
95
        this->cart.clearCart();
96
97
   }
98
```