

Package org.bookstore.order.service

Class OrderService

java.lang.Object
org.bookstore.order.service.OrderService

```
public class OrderService
extends Object
```

The class OrderService defines a service to manage the orders of a bookstore.

Constructor Summary

Constructors

Constructor	Description
OrderService()	

Method Summary

[All Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type	Method	Description
void	cancelOrder(long id)	Tries to cancel an order.
Order	findOrder(long id)	Finds an order by identifier.
Order	placeOrder(long customerId, List <OrderItem> items)	Places an order with the bookstore.
List <OrderInfo>	searchOrders(long customerId, int year)	Searches for orders by customer and year.

Methods inherited from class java.lang.Object

```
clone , equals , finalize , getClass , hashCode , notify , notifyAll , toString , wait , wait , wait
```

Constructor Details

OrderService

```
public OrderService()
```

Method Details

placeOrder

```
public Order placeOrder(long customerId,  
                      List <OrderItem> items)  
throws CustomerNotFoundException,  
      PaymentFailedException
```

Places an order with the bookstore.

Parameters:

`customerId` - the identifier of the customer

`items` - the items to be ordered

Returns:

the data of the placed order

Throws:

`CustomerNotFoundException` - if no customer with the specified identifier exists

`PaymentFailedException` - if the credit card payment failed

findOrder

```
public Order findOrder(long id)
    throws OrderNotFoundException
```

Finds an order by identifier.

Parameters:

`id` - the identifier of the order

Returns:

the data of the found order

Throws:

`OrderNotFoundException` - if no order with the specified identifier exists

searchOrders

```
public List <OrderInfo> searchOrders(long customerId,
    int year)
    throws CustomerNotFoundException
```

Searches for orders by customer and year.

Parameters:

`customerId` - the identifier of the customer

`year` - the year of the orders

Returns:

the matching orders

Throws:

`CustomerNotFoundException` - if no customer with the specified identifier exists

cancelOrder

```
public void cancelOrder(long id)
    throws OrderNotFoundException,
        OrderAlreadyShippedException
```

Tries to cancel an order.

Parameters:

`id` - the identifier of the order

Throws:

`OrderNotFoundException` - if no order with the specified identifier exists

`OrderAlreadyShippedException` - if the order has already been shipped