

Package BuildingCentreReceipt

Class Material

java.lang.Object

BuildingCentreReceipt.BuildingCentreProductBase

BuildingCentreReceipt.Material

All Implemented Interfaces:

SelfFetchable, java.lang.Comparable<BuildingCentreProductBase>

public class **Material**

extends BuildingCentreProductBase

implements SelfFetchable

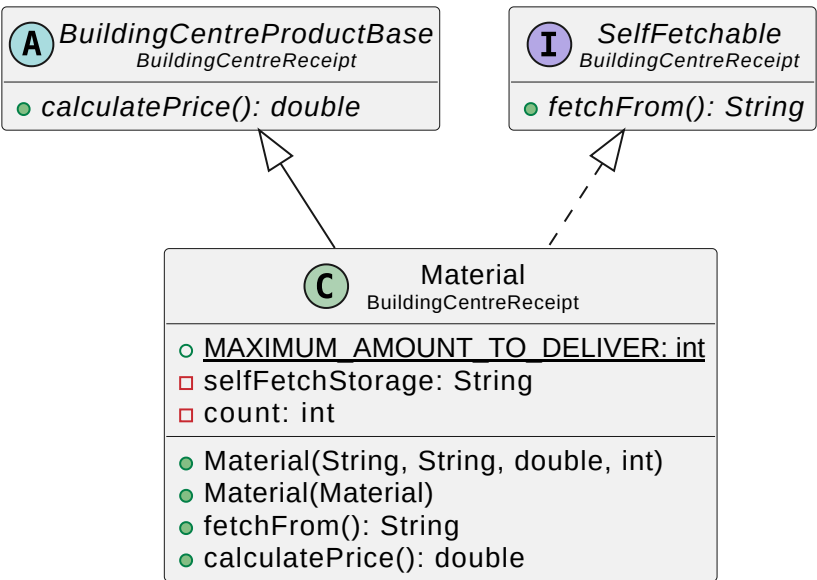
A certian quantity of building material

which can be purchased in the building

centre as a product.

For all material, a maximum amount of

250 can be delivered.



UMLDoclet 2.1.0, PlantUML 1.2022.14

Field Summary

Fields		
Modifier and Type	Field	Description
private int	count	the package count of this material.
static int	MAXIMUM_AMOUNT_TO_DELIVER	the maximum amount that can be delivered.
private java.lang.String	selfFetchStorage	the storage of this material cannot be null, empty or whitespace only

ALL CLASSES

SEARCH:

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name, price

## Constructor Summary

### Constructors

Constructor	Description
<b>Material</b> ( <b>Material</b> o)	Copies a material.
<b>Material</b> (java.lang.String name, java.lang.String selfFetchStorage, double price, int count)	Constructs a material with specified name, self storage name, price and count.

## Method Summary

### All Methods

### Instance Methods

### Concrete Methods

Modifier and Type	Method	Description
double	<b>calculatePrice</b> ()	Calculates the price of this material. The price is the price per unit times the count.
java.lang.String	<b>fetchFrom</b> ()	get the pickup location of this material. material that exceeds the capacity of the storage space cannot be fetched.

### Methods declared in

### class **BuildingCentreReceipt**.**BuildingCentreProductBase**

compareTo, getName, getPricePerUnit, price, toString

### Methods declared in class **java.lang.Object**

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

ALL CLASSES

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```
public static final int MAXIMUM_AMOUNT_TO_DELIVER
```

the maximum amount that can be delivered.

**See Also:**

[Constant Field Values](#)

**selfFetchStorage**

```
private final java.lang.String selfFetchStorage
```

the storage of this material  
cannot be null, empty or whitespace only

**count**

```
private final int count
```

the package count of this material. The total amount depends on package unit and size.  
must be  $\geq 0$

***Constructor Detail*****Material**

```
public Material(java.lang.String name,  
                java.lang.String selfFetchStorage,  
                double price,  
                int count)
```

Constructs a material with specified name, self storage name, price and count. Validates arguments and throws exceptions in case of illegal arguments

**Parameters:**

name - the name of this material

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`java.lang.IllegalArgumentException` - if any argument does not validate

**Material**

```
public Material(Material o)
```

Copies a material.

**Parameters:**

`o` - the material to be copied

**Method Detail****fetchFrom**

```
public java.lang.String fetchFrom() throws java.lang.Exception
```

get the pickup location of this material.

material that exceeds the capacity of the storage space cannot be fetched. In that case an exception is thrown informing the caller with message "Unable providing this amount."

The maximum capacity is given by .

**Specified by:**

`fetchFrom` in interface `SelfFetchable`

**Returns:**

the pickup location of this material

**Throws:**

`java.lang.Exception` - if the material cannot be stored

**calculatePrice**

```
public double calculatePrice()
```

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Returns:

the price of this product in euro (EUR)

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