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ALL CLASSES

SEARCH:

Search

DETAIL: FIELD | CONSTR | METHOD

Package BuildingCentreReceipt

SUMMARY: NESTED | FIELD | CONSTR | METHOD

Class BuildingCentreProductBase

java.lang.Object

BuildingCentreReceipt.BuildingCentreProductBase

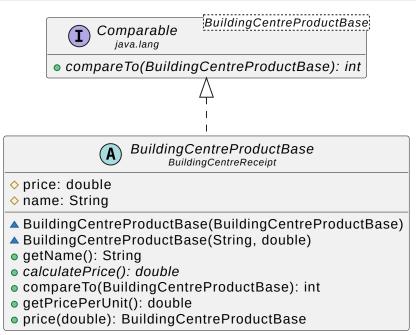
All Implemented Interfaces:

java.lang.Comparable<BuildingCentreProductBase>

Direct Known Subclasses:

CraftsmanSupport, Material, Tool

public abstract class
BuildingCentreProductBase
extends java.lang.Object
implements



UMLDoclet 2.1.0, PlantUML 1.2022.14

java.lang.Comparable<BuildingCentreProductBase>

A product in the building centre. A product is anything that is offered for sale including physical items and services.

This class is the base class of all products in the building centre.

Naturally, products are sorted by (total) price.



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Constructor Summary

Constructors

Constructor	Description
BuildingCentreProductBase (BuildingCentreProductBase orig)	copy constructor
<pre>BuildingCentreProductBase (java.lang.String name, double pricePerUnit)</pre>	Constructs a product with a specified name and price per unit In case of illegal arguments an exception is thrown.

Method Summary

All Methods	Instance Met	thods	Abstract Methods	Cor	ncrete Methods
Modifier and Typ	e M	Method			Description
abstract doubl	e c	calcula [.]	tePrice()		calculates the price of this product.
int		compare (Buildi	To ngCentreProductBase	0)	Compares this product to another product by (total) price.
java.lang.Stri	ng g	getName	()		Get the name of this product.
double	ğ	getPric	ePerUnit()		get the price per unit of this product
BuildingCentre	ProductBase p	orice(d	ouble price)		sets the price of this product. Price is set if and only if it is apositive value.
java.lang.Stri	ng t	toString	g()		String representation of this product. The string

PACKAGE

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Methods declared in class java.lang.Object

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

Field Detail

price

protected double price

the price per unit of this product, defaults to 1

name

protected java.lang.String name

the name of this product

Constructor Detail

BuildingCentreProductBase

BuildingCentreProductBase(BuildingCentreProductBase orig)

copy constructor

Parameters:

orig - the product to copy

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Constructs a product with a specified name and price per unit In case of illegal arguments an exception is thrown.

Parameters:

name - the name of this product

pricePerUnit - the price per unit of this product in Euro (EUR)

Throws:

java.lang.IllegalArgumentException - if the price per unit is less than one

Method Detail

getName

public java.lang.String getName()

Get the name of this product.

Returns:

the name

calculatePrice

public abstract double calculatePrice()

calculates the price of this product. The actual calculation is performed in concrete subclasses.

Returns:

the price of this product in euro (EUR)

toString

public java.lang.String toString()

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compareTo

public int compareTo(BuildingCentreProductBase o)

Compares this product to another product by (total) price.

Specified by:

compareTo in interface java.lang.Comparable<BuildingCentreProductBase>

Parameters:

o - the product to compare this procuct to

the "distance" in terms of price betwee this product and the other product

getPricePerUnit

public double getPricePerUnit()

get the price per unit of this product

Returns:

the price per unit

price

public BuildingCentreProductBase price(double price)

sets the price of this product.

Price is set if and only if it is apositive value. Illegal arguments are ignored.

This method is intended for method chaining.

Parameters:

price - the price to set

Returns:

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ALL CLASSES SEARCH:

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD INDEX HELP

ALL CLASSES

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DETAIL: FIELD | CONSTR | METHOD