be.kdg.se3.services.orderpicking

Class LocationServiceProxy

java.lang.Object
     be.kdg.se3.services.orderpicking.LocationServiceProxy

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public class **LocationServiceProxy**
extends java.lang.Object

Local synchroneous proxy for the HTTP based service that returns location info for products stored by WarmRed

A call to www.services4se3.com/locationservice/productID will return a JSON with location info regarding the specified productID
The normal JSON response has the following structure

{
productID: the product for which the location info was requested,
storageRoom: the storage room (A,B,C,...) ,
hallway: the hallway in this storage room (int) ,
rack: the rack number in this hallway (int) ,
}

An error JSON response indicates that the call succeeded but no sensible data could be returned. It has the following format
{
error: the type of error e.g. "Unknown productID" (string),
description: a description of the error (string)
}

This proxy is meant for testing purposes:

- the **URL does not actually exist** and no real HTTP call is made; the proxy just holds the calling thread for 200 ms to simulate network latency
- the service returns data in realistic ranges, but the data is random generated so subsequent calls with the same id will return different data
- productID 1111111 wil generate a JSON error result ('Unknown productID')
- productID 2222222 will force an IOException to simulate a communication error

Constructor Summary

Constructors

Constructor and Description
LocationServiceProxy()

Method Summary

All Methods   Instance Methods   Concrete Methods

Modifier and Type	Method and Description
java.lang.String	**get**(java.lang.String url) Invokes the remote service through a HTTP GET using the supplied URL.

Methods inherited from class java.lang.Object

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

Constructor Detail

LocationServiceProxy

```
public LocationServiceProxy()
```

Method Detail

get

```
public java.lang.String get(java.lang.String url)
                    throws java.io.IOException
```

Invokes the remote service through a HTTP GET using the supplied URL. The HTTP response is unpacked and the body is returned as a JSON string

Parameters:

url – the endpoint of the call (see class documentation)

Returns:

the data in the correct JSON format (see class documentation)

Throws:

java.io.IOException – if invocation fails (wrong URL or unexpected communication/service failure)