

be.kdg.se3.proxy

Class ShipServiceProxy

java.lang.Object
be.kdg.se3.proxy.ShipServiceProxy

```
public class ShipServiceProxy
extends java.lang.Object
```

Synchronous proxy for the International HTTP based ship info service used by all sea-harbours in the world

A call to `www.services4se3.com/shipservice/shipid` will return a JSON with info regarding the specified shipid (a 7 digit number)
(example: `www.services4se3.com/shipservice/1234567` will return info on the ship with IMO number "IMO1234567")
The normal JSON response has the following structure

```
{
IMO: the IMO number of the ship (= the string 'IMO' followed by the 7 digits),
dangereousCargo: if the ship transports dangerous cargo (fuel,...) (boolean) ,
numberOfPassengers: the number of people currenty on board of the ship (int) ,
cargo: [ ,
{ type: cargo identification (string) ,
amount: cargo weight in kg (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 shipid" (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
- for shipid 1111111 the dangerous cargo will not be random but always set to true
- for shipid 1111112 the dangerous cargo will not be random but always set to false
- shipid 2222222 wil generate a JSON error result ('Unknown shipid')
- shipid 3333333 will force an IOException to simulate a communication error

Constructor Summary

Constructors
Constructor and Description
<code>ShipServiceProxy ()</code>

Method Summary

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

ShipServiceProxy

```
public ShipServiceProxy()
```

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)