BSON news feed library

The main aim of the library is to give a smooth and simple interface from a bson news feed service to an android java application.

APIs

There are only two APIs available:

1. **getToken**

This function returns a valid bson token used to obtain a bson news from a server.

The java application shall ask the token and then it shall send it to the server, which in turn will serve the next news if available.

public static native byte[] **getToken**(String baseDir, long timeStamp,String cks );

Parameters:

* String **baseDir :** this is the base dire where news must be stored.

For example, using as app name “org.bbc.last” a feasible base directory can be: /data/app/org.bbc.last/files/.

Applications shall own writing and reading permissions.

* long **timestamp :** this is the last timestamp received from the server**1**.
* String **cks :** the checksum of the last received messages from the server, this field is obtained from the serialize() returned hashmap**1**.

1. **Serialize**

A bson object from the server shall be parsed using the serialize interface. The function simply takes the base directory where to store the news and a ByteBuffer which contains the response from the server.

As result an hasmap is returned with all the informations of the decoded news.

Parameters:

* String **baseDir :** this is the base dire where news must be stored.

For example, using as app name “org.bbc.last” a feasible base directory can be: /data/app/org.bbc.last/files/.

Applications shall own writing and reading permissions.

* ByteBuffer **payload:** server reply.

The returned HashMap is a simple name,value array used to gather informations about the decoded news. The following is an example of it:

|  |  |
| --- | --- |
| Key | Value examples |
| type | img |
| path | /data/app/org.bbc.last/files/img/1385212176.jpg |
| date | 1385212176 |
| title | News from Rosetta |
| headline | Life has been discovered on the comet |
| content | Elementary form of bactarias has been found on comet 67P/Churyumov–Gerasimenko! |
| checksum | 23dk3rfdksxcwreed3 |

public static native HashMap<String,String> **serialize**(String baseDir, ByteBuffer payload);