

Requirement Specification MoneyService HQ

Reports from site

All sites in the network should send daily reports to HQ consisting of a List of Transaction using serialization technique. The Transaction class that must reside at HQ and at the various sites should have the following definition:

```
package affix.java.effective.moneyservice;
...

/**
 * This class represents a transaction in the MoneyService system.
 * A transaction is described by Currency, amount, and buy/sell mode.
 * A time stamp is needed to recreate the Order based on stored rates
 * Bookkeeping requires that all transaction also holds a unique id.
 * It is only used internally so default serialization will do
 */
final class Transaction implements java.io.Serializable {

    private static final long serialVersionUID = 1L;

    private final int id;
    private final LocalDateTime timeStamp;
    private final String currencyCode;
    private final int amount;
    private final TransactionMode mode;

    private static int uniqueId = 1;

    ...
}
```

Serialized files should be sent to HQ using a name standard as follows:

Report_<SITE>_<DATE>.ser

Example: From site North reporting transactions for 2020-04-06 filename should be:

Report_NORTH_2020-04-06.ser

All files should be kept at HQ in separate folders, one for each site

Statistics

At HQ of MoneyService various statistics should be calculated based on data from sites and presented in format appropriately ordered for easy overview.

An operator should be using a CLI/GUI for handling of available data as stored in the system.