

# Rabobank Customer Statement Processor

Rabobank receives monthly deliveries of customer statement records. This information is delivered in JSON Format. These records need to be validated.

## Input

The format is as follows:

Table 1. Record description	
Field	Description
Transaction reference	A numeric value
Account number	An IBAN
Start Balance	The starting balance in Euros
Mutation	Either an addition (+) or a deduction (-)
Description	Free text
End Balance	The end balance in Euros

## Assignment

Implement a REST service which receives the customer statement JSON as a POST data, Perform the below validations

1. All transaction references should be unique
2. The end balance needs to be validated ( Start Balance +/- Mutation = End Balance )

## Expected Output

Http Status Code	Condition	Response format
200	When there are no duplicate reference and correct end balance	<pre>{   "result" : "SUCCESSFUL",   "errorRecords" : [] }</pre>
200	When there are duplicate reference and correct balance	<pre>{   "result" : "DUPLICATE_REFERENCE",   "errorRecords" : [     {       "reference": reference_of_error_record,       "accountNumber": "account_number_of_error_record"     }   ] }</pre>
200	When there are no duplicate reference and In correct balance	<pre>{   "result" : " INCORRECT_END_BALANCE",   "errorRecords" : [     {       "reference": reference_of_error_record,       "accountNumber": "account_number_of_error_record",     }   ] }</pre>
200	When there are duplicate reference and In correct balance	<pre>{   "result" : " DUPLICATE_REFERENCE_INCORRECT_END_BALANCE",   "errorRecords" : [     {       "reference": reference_of_duplicate_record,       "accountNumber": "account_number_of_duplicate_record",     },     {       "reference": reference_of_inCorrectEndBalance_record,       "accountNumber": "account_number_of_inCorrectEndBalance _record"     }   ] }</pre>
400	Error during parsing JSON	<pre>{   "result" : "BAD_REQUEST",   "errorRecords" : [] }</pre>

500	Any other situation	{  "result" : "INTERNAL_SERVER_ERROR",  "errorRecords" : []  }
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# Instructions

- Assignment should be submitted as a maven project
- Junit should be well written.
- Integration test should be implemented ( For Mediors only )