consume account-closure events and calculate + publish closing interest.

1. account-opening events

Events -> IntrestCalculatorApplication -> update Db

{  
    "bsb": 182182",  
    "identification": 111222333,  
    "openingDate" : "2021-09-13"  
}

1. will get one or more daily end-of-day JMS messages that have list of account numbers and their balances (AUD amounts only for now)

{

"balanceDate" : "2021-09-19",

"accountData": [

{

"bsb": 182182,

"identification": 111222333,

"balance": 123.34

},

{

"bsb": 182182,

"identification": 222000111,

"balance": 12.34

},

{

"bsb": 182182,

"identification": 222000999,

"balance": 0.00

}

]

}

It should calculate daily interest accrued per account in message – you can decide what you’d like to with accounts that aren’t in your datastore

1. At the end of each month, it should summarise the accrued interest, save this to track monthly interest history, and publish a message per account with total interest for that month.

**Preferred Technology**

Java/Springboot/Webflux

Data Storage

|  |
| --- |
| **Account**   * bsb * Identification * openingDate |

|  |
| --- |
| **AccountBalance**   * bsb * Identification * balance BIGDECIMAL * balanceDate * interest |

|  |
| --- |
| **MonthlyInterestHistory**   * bsb * Identification * Month * year * totalIntrest |

Account opening Flow

Consume message -> controller->service ->Repository uses account model -> Db