**USER STORY**

Create an api to list all loan accounts with payment frequency as monthly

Task:

1. Requirement Analysis – Identify the Request and Response data

2. Create Raml to get loan accounts details using request parameter as payment frequency as monthly.

3. Create Spring boot App to get loan accounts details a. Retrieve Data from DB table

b. Push Data to the Queue before exposing Data through API

c. Retrieve data from soap endpoint and expose as Rest API

**REQUEST FIELDS**

POST /loan

Accept: application/json

paymentfrequency=monthly

**RESPONSE FIELDS**

HTTP/1.1 200 OK

Content-Type: application/json; charset=utf-8

{

[ {

"LoanAccount": {

"BalanceAsOf": " ",

"PrincipalBalance": " ",

"OriginalPrincipal": " ",

"LoanTerm": " ",

"TotalNumberOfPayments": " ",

"NextPaymentAmount": " ",

"NextPaymentDate": " ",

"LastPaymentAmount": " ",

"LastPaymentDate": " ",

"PaymentFrequency": " "

"AccountID": " ",

"Nickname": " ",

"LineOfBusiness": " ",

"AccountNumber": " ",

"InterestRate": " ",

"Currency": " ",

"TransferIn": " ",

"TransferOut": " ",

"InterestRateType": " "

} ]

}

HTTP/1.1 400 Bad Request

Content-Type: application/json; charset=utf-8

{

  "Error":

{

code: 400

message: Invalid PaymentFrequecy

}

}

HTTP/1.1 404 Not found

Content-Type: application/json; charset=utf-8

{

  "Error":

{

message: Loan account not found

}

}

HTTP/1.1 204 No Content

Content-Type: application/json; charset=utf-8

{

"String":

{

No Loanaccount for the paymentfrequency

}

}

HTTP/1.1 405 Method Not Allowed

{

  "Error":

{

code: 405

message: Method is not allowed

}

}

HTTP/1.1 406 Not Acceptable

{

  "Error":

{

code: 406

message: Request Header is not acceptable

}

}

**TABLES**

**AccountDescriptor**:

|  |  |
| --- | --- |
| **FIELDS** | **TYPE** |
| AccountId | Identifier |
| AccountType | AccountType |
| DisplayName | string |
| Status | AccountStatus |
| Description | string |
| AccountDescriptorId | Integer |
| CustomerId | string |

**Account**:

|  |  |
| --- | --- |
| **FIELDS** | **TYPE** |
| AccountMasterId | Integer |
| ParentAccountId | Identifier |
| Nickname | string |
| LineOfBusiness | string |
| AccountNumber | string |
| InterestRate | Number |
| Currency | Currency |
| AccDescriptorId | Integer |
| TransferIn | Boolean |
| TransferOut | Boolean |
| InterestRateType | InterestRateType |

**LoanAccount**:

|  |  |
| --- | --- |
| **FIELDS** | **TYPE** |
| LoanAccountId | Integer |
| AccountId | Integer |
| BalanceAsOf | Number |
| PrincipalBalance | Number |
| OriginalPrincipal | Number |
| LoanTerm | Integer |
| TotalNumberOfPayments | NextPaymentDate |
| NextPaymentAmount | Number |
| NextPaymentDate | NextPaymentDate |
| LastPaymentAmount | Number |
| LastPaymentDate | NextPaymentDate |
| PaymentFrequency | String |