**Requirements Analysis Document**

**User Story**:

Create an api to get an investment loan information.

**Request:**

http:localhost:8008/api/v1/investmentloan

http: POST

Body

{   
 loanId=1123

}

**Response:**

HTTP/1.1 200 OK

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

“InvestmentLoan” :{

“AccountDescriptor”:

{

“accountId”:”123”

},

“loanId”: “1123”,

“LoanDescription”: Loan on property

“InitialLoanBalance”:50,000

“LoanStartDate”:01/01/2016

“CurrentLoanBalance”:50,000

“DateAsOf”:20/09/2018

“LoanRate”:3

“LoanPaymentAmount”:1,20,000

“LoanPaymentFrequency”: MONTHLY

“LoanPaymentInitial”:21

“LoanPaymentsRemaining”:3

“LoanMaturityDate”: 20/09/2019

“LoanInterestToDate”:7000

“LoanTotalProjectedInterest”:10000

“LoanNextPaymentDate”: 20/10/2018

}

**Errors which may cause:**

|  |  |
| --- | --- |
| **Error Message** | **HTTP Status Code** |
| Loan Id details Found | 200 |
| Loan Id not found | 404 |
| Invalid Loan Id | 400 |
| Server Error | 500 |
| Bad Request | 400 |

**Entities Required:**

1. AccountDescriptor
2. Account
3. InvestmentAccount
4. InvestmentLoan
5. Error

**Fields**:

**AccountDescriptor**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** |  |
| AccountDescriptorId | int | pk |
| AccountId | Identifier |  |
| DisplayName | string |  |
| Status | AccountStatus |  |

**Account**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** |  |
| AccountMasterId | Identifier | pk |
| AccountDescriptorId | int | fk |
| Currency | Currency |  |
| AccountNumber | string |  |

**InvestmentAccount**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** |  |
| InvestmentAccountId | int | pk |
| BalanceAsOf | Timestamp |  |
| CurrentValue | Number |  |
| InvestmentLoans | Array of InvestmentLoan |  |

**InvestmentLoan**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** |  |
| LoanId | string | pk |
| LoanDescription | Description |  |
| InitialLoanBalance | Number |  |
| LoanStartDate | Timestamp |  |
| CurrentLoanBalance | Number |  |
| DateAsOf | Timestamp |  |
| LoanRate | Number |  |
| LoanPaymentAmount | Number |  |
| LoanPaymentFrequency | LoanPaymentFrequency |  |
| LoanPaymentInitial | Number |  |
| LoanPaymentsRemaining | int |  |
| LoanMaturityDate | Timestamp |  |
| LoanInterestToDate | Number |  |
| LoanTotalProjectedInterest | Number |  |
| LoanNextPaymentDate | Timestamp |  |

**Error**

|  |  |
| --- | --- |
| **Field** | **Type** |
| Code | string |
| Message | string |