**Analysis document (Story 19):**

1. **Create an api to query all information for a set of accounts provided in the payload.**
2. **Request/Response format :**

**Authorization**: Bearer w0mcJylzCn-AfvuGdqkty2-KP48=

**Request Formats (Content-Type):** application/json

**Response Formats (Accept):** application/json

**POST:**  /v1/accountsdetails

**Request format:**

{

"AccountsDetailsRequest": {

"singleAccountDetailsRequestList": {

"singleAccountDetailsRequest ": [ {

"accountId": "12001",

"startTime": "2015-04-01T00:00:00.000Z"

},

{

"accountId": "12002",

"startTime": "2015-05-05T00:00:00.000Z"

},

{

"accountId": "12003",

"startTime": "2015-07-01T00:00:00.000Z"

}]

}

}

}

**Response (Data in json format):**

HTTP/1.1 200 OK

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

{

"Accounts":

[ {

“Account id”:”12001”,

“ParentAccountId”: “2468135790”,

“AccountType”: ”Saving”,

“DisplayName”: “Sumit”,

“AccountStatus”: “OPEN”,

“PrincipalBalance”: “12000”,

“BalanceAsOf”: “2018-07-02”,

“OriginalPrincipal”: “20000”,

“LoanTerm”: “20.00”,

“TotalNumberOfPayments”: “10”,

“PaymentFrequency”:“ANNUALLY”

},

{

“account id”: “12002”,

“ParentAccountId”: “2468135790”,

“AccountType”: ”Saving”,

“DisplayName”: “Rahul”,

“AccountStatus”: “OPEN”,

“BalanceAsOf”: “2018-07-02”,

“CurrentBalance”: “12000”,

“AvailableBalance”: “20000”,

“Term”: “20”,

“MaturityDate”: “5 yrs”

},

{

“account id”: “12003”,

“ParentAccountId”: “2468135790”,

“DisplayName”: “Akash”,

“AccountStatus”: “OPEN”,

“AccountType”: ”Saving”,

“BalanceAsOf”: “2018-07-02 “,

“CurrentBalance”: “10000”,

“AvailableBalance”: “15000”,

“Term”: “10”,

“MaturityDate”: “4 yrs”

}

]

}

1. **Possible Error Codes:**

* If Account is found with Id and response is success: set code 200OK.
* If Account not found with id : http status code is 404 with message “Account not found”

{

“Code”: “404”,

“Message”: “Account not found”

}

* Invalid start date with time for particular account : http status code is 400 with message “Invalid start or end date”

{

“Code”: “400”,

“Message”: “Invalid start or end date”

}

* If server doesn’t respond : ERROR CODE 500 Internal server Error

{

Code : “500”,

Message : “Internal server Error”

}

* HTTP Version Not Supported : ERROR code 505

{

“Code”: “505”,

“Message”: “http version not supported”

}

1. **Table references:**

**Account, accountdescriptor, loanaccount,** **investmentaccount, locaccount, deposit account**

1. **Entity classes involves in the particular requirement:**

* **AccountsDetailsRequest**

|  |  |
| --- | --- |
| **Type** | **Field** |
| SingleAccountDetailsRequestList | SingleAccountDetailsRequestList |

* **SingleAccountDetailsRequestList**

|  |  |
| --- | --- |
| **Type** | **Field** |
| SingleAccountDetailsRequest<list> | SingleAccountDetailsRequest |

* **SingleAccountDetailsRequest**

|  |  |
| --- | --- |
| **Type** | **Field** |
| string | AccountId |
| Timestamp | StartTime |
| Timestamp | EndTime |
| Number | Page |

* **AccountDescriptor**

|  |  |
| --- | --- |
| **Type** | **Field** |
| Identifier | AccountId (Primary key) |
| Accounttype | AccountType |
| AccountStatus (ENUM) | Status |
| String | DisplayName |

* Enum class for AccountStatus and Accountype.

Enum AccountStatus

{

OPEN,

CLOSED,

NEGATIVECURRENTBALANCE.

}

Enum AccountType

{

DepositAccount,

InvestmentAccount,

LoanAccount,

LocAccount

}

* **Account Entity (Extends AccountDescriptor)**

|  |  |
| --- | --- |
| Type | Field |
| Identifier | ParentAccountId |
| Currency | Currency |
| string | AccountNumber |
| number | InterestRate |
| string | Nickname |

* **Accounts Entity**

It will be used to get all accounts.

|  |  |
| --- | --- |
| **Type** | **Field** |
| int | Total |
| int | Totalpages |
| int | Page |
| List<Account>  Account can be DepositAccount,  InvestmentAccount,  LoanAccount, or  LocAccount | Enum Account |

**Particular loan accounts table: (Extend Account Entity)**

* **DepositAccount Entity**

|  |  |
| --- | --- |
| **Type** | **Field** |
| Number | CurrentBalance |
| Timestamp | BalanceAsOf |
| Number | AvailableBalance |
| INT | Term |
| Timestamp | MaturityDate |

* **InvestmentAccount Entity**

|  |  |
| --- | --- |
| **Type** | **Field** |
| Timestamp | BalanceAsOf |
| Number | CurrentValue |
| string | EmployerName |
| string | BrokerId |

* **LoanAccount Entity**

|  |  |
| --- | --- |
| **Type** | **Field** |
| Number | PrincipalBalance |
| timestamp | BalanceAsOf |
| Number | OriginalPrincipal |
| int | LoanTerm |
| int | TotalNumberOfPayments |
| PaymentFrequency(ENUM TYPE) | PaymentFrequency |

Enum PaymentFrequency

{

ANNUALLY,

WEEKLY,

MONTHLY,

DAILY

}

* **LocAccount Entity**

|  |  |
| --- | --- |
| **Type** | **Field** |
| timestamp | BalanceAsOf |
| Number | CreditLine |
| Number | AvailableCredit |
| Number | NextPaymentAmount |
| timestamp | NextPaymentDate |
| Number | PrincipalBalance |
| Number | CurrentBalance |