Name: Govind Godbole

Version: 1.0

User Story Description - **Create an API to get statements**

Tables used: Account, AccountDescriptor, LoanAccount, DepositAccount, LocAccount,

InvestmentAccount, Statement

**Sample Request**:

* POST \account\statements
* Accept: application/json
* Content-Type: application/x-www-form-urlencoded
* accountId=1&startTime=2015-01-01Z&endTime=2015-02-01Z&page=1
* **Input JSON**

{    
   **"accountId"**:1,  
   **"accountType"**:"LoanAccount",  
   **"startTime"**:"2015-01-01Z",  
   **"endTime"**:"2015-02-01Z"  
}

**Sample Response**:

* Content-Type: application/json
* Returns Array of Statements
* **output JSON**

{    
   **"Statements"**:{    
      **"Total"**:"1",  
      **"TotalPages"**:"1",  
      **"Page"**:"1",  
      **"Statement"**:[    
         {    
            **"AccountId"**:"1357902468",  
            **"StatementId"**:"ST875376081768363584636",  
            **"StatementDate"**:"2015-01-01Z",  
            **"Description"**:"Statement for 2015-01-01"  
         }

{    
    **"AccountId"**:"1357902468",  
    **"StatementId"**:"ST962558772885635484949",  
    **"StatementDate"**:"2015-02-01Z",  
    **"Description"**:"Statement for 2015-02-01"  
 }  
      ]  
   }  
}

**Happy Flow**

* Response Code 200 OK

**Exception Scenario**

* Response codes **400** Bad Request , **401** Unauthorized, **403** Forbidden, **404** Not Found
* Response code **501** Internal Server Error
* All response code will have separate error message description. Can use Try\catch for relevant error messages. Null check, Min, Max condition wherever applicable.
* **Logging** – spring boot logging can be used for every method written in business logic
* **Security** – Basic Type security with Username\Password through spring boot

**Used Tables Details:**

|  |  |  |
| --- | --- | --- |
| AccountDescriptor | | |
| Field Name | Type | Description |
| AccountId | Identifier | Account id |
| AccountType | AccountType | Type of account(DepositAccount, LoanAccount, LocAccount, InvestmentAccount) |
| DisplayName | String | Account identity to display to customer |
| Description | String | Description of account |
| AccountDescriptionId(PK) | Identifier | Account Description Id |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Account | | | | |
| Field Name | | Type | | Description |
| ParentAccountId | | Identifier | | Parent account id |
| AccountMasterId(PK) | | Identifier | | Account Master Id |
| AccountNumber | | String | | accountId |
| Currency | | Currency | | Type of currency ($,#, INR) |
| InterestRateType | | Number | | Rate of Interest |
| Nickname | | String | | Nickname for the account |
| DepositAccount | | | | |
| Field Name | Type | | Description | |
| BalanceAsOf | Timestamp | | Balance As Of that time | |
| CurrentBalance | Number | | Current Balance | |
| AvailableBalance | Number | | Available Balance in account | |
| MaturityDate | Timestamp | | Date of Maturity for account | |
| DepositAccountId(PK) | Identifier | | Deposit Account Id | |

|  |  |  |
| --- | --- | --- |
| LoanAccount | | |
| Field Name | Type | Description |
| BalanceAsOf | Number | Balance As Of that time |
| LoanAccountId(PK) | Identifier | Loan Account Id |
| PricipleBalance | Number | Principal balance of loan |
| OriginalPrincipal | Number |  |
| PaymentFrequency | PaymentFrequency | DAILY, WEEKLY, BIWEEKLY, SEMIMONTHLY, MONTHLY,  SEMIANNUALLY, ANNUALLY |

|  |  |  |
| --- | --- | --- |
| LocAccount | | |
| Field Name | Type | Description |
| LocAccountId (PK) | Identifier | Loc Account Id |
| AccountId | Identifier | Account Id |
| BalanceAsOf | Timestamp | Balance As Of that time |
| CreditLine | Number | Principal balance of loan |
| AvailableCredit | Number | Available Balance in account |
| NextPaymentAmount | Number | Next Payment Amount |
| PrincipalBalance | Number | Principal Balance |

|  |  |  |
| --- | --- | --- |
| InvestmentAccount | | |
| Field Name | Type | Description |
| BalanceAsOf | Timestamp | Balance As Of that time |
| InvestmentAccountId(PK) | Identifier | Investment Account Id |
| CurrentValue | Number | Current Value |
| OpenOrders | Array | Array of Open Order |

|  |  |  |
| --- | --- | --- |
| Statement | | |
| Field Name | Type | Description |
| AccountId | Identifier | Account Id |
| StatementId(PK) | Identifier | Statement Id |
| StatementDate | TimeStamp | Statement Date |
| Description | String | Description |