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

**Request**:

1. POST (\account\statements)
2. Accept: application/json
3. Sample Input JSON
4. {
5. "id": 1
6. }
7. Content-Type: application/x-www-form-urlencoded
8. Accepts : accountId=1

**Response**:

* Response Code 200 OK
* Response code 201 created
* Response code 206 Partial content
* Response code 400 Bad Request
* Response code 401 Unauthorized
* Response code 403 Forbidden
* Response code 404 Not Found
* Response code 501 Internal Server Error
* Content-Type: application/json
* Returns Type of Statements (DepositAccount, LoanAccount, LocAccount, InvestmentAccount)

{

  "Statements for DepositAccount " : { }

}

{

  "Statements for LoanAccount " : { }

}

{

  "Statements for LocAccount " : { }

}

{

  "Statements for InvestmentAccount " : { }

}

**Exceptions**: all response code will have separate error message description. Can use Try\catch for relevant error messages

**Logging** – spring boot logging can be used for every method written in business logic

**Security** – Basic Type security with Username\Password through spring boot

Tables Details:

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| --- | --- | --- |
| AccountDescriptor | | |
| Field Name | Type | Description |
| AccountId (PK) | 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 | Identifier | Account Description Id |

|  |  |  |
| --- | --- | --- |
| Account | | |
| Field Name | Type | Description |
| ParentAccountId(FK) | Identifier | Parent account id |
| AccountMasterId | Identifier | Account Master Id |
| AccountNumber(PK) | String | accountId |
| Currency | Currency | Type of currency ($,#, INR) |
| InterestRateType | Number | Rate of Interest |
| Nickname | String | Nickname for the account |

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| --- | --- | --- |
| DepositAccount | | |
| Field Name | Type | Description |
| BalanceAsOf | Timestamp | Balance AsOf that time |
| CurrentBalance | Number | Current Balance |
| AvailableBalance | Number | Available Balance in account |
| MaturityDate | Timestamp | Date of Maturity for account |
| DepositAccountId | Identifier | Deposit Account Id |

|  |  |  |
| --- | --- | --- |
| LoanAccount | | |
| Field Name | Type | Description |
| BalanceAsOf | Number | Balance As Of that time |
| LoanAccountId | 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 | 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 | Identifier | Investment Account Id |
| CurrentValue | Number | Current Value |
| OpenOrders | Array | Array of Open Order |