* Create an API to get balance list for an investment account

Request: api/v1

POST / investmentaccount

Accept: application/json

accountId=1122332

Response

HTTP/1.1 200 OK

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

{

  "InvestmentBalanceList”: { }

}

Task:

1. Requirement Analysis – Identify the Request and Response data

2. Create RAML to get balance list for an investment account

3. Create Spring boot App to get balance list for an investment accounta. 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

* **Requirement of user Stories**
* Create an API to get balance list for an investment account
* URL of API get investment account balance

Request: POST /investmentaccount

Accept: application/json

AccountId =1122332

Table: Account

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Filed type |
| Account Number | String | PK |
| parentAccountId | Number | FK |
| nickname | String |  |
| interestRate | Number |  |

Table Currency

|  |  |  |
| --- | --- | --- |
| Column Name | Data type | Filed type |
| currencyCode | String |  |
| currencyRate | Number |  |
| originalCurrencyCode | String |  |

Table: AccountDescriptor

|  |  |  |
| --- | --- | --- |
| Column Name | Data type | Filed type |
| AccountId | Number | PK |
| Account type | String |  |
| displayName | String |  |
| description | String |  |
| Status | String |  |

Table: InvestmentAccount

|  |  |  |
| --- | --- | --- |
| Column Name | Data type | Filed type |
| BalanceasOf | Timestamp |  |
| Contribution | String |  |
| AvailableCashBalance | Number |  |
| PercentageChange | Number |  |
| AccountID | Number | FK |
| allowedCheckWriting | Boolean |  |
| allowedOptionTrade | Boolean |  |
| currentValue | Number |  |
| Margin | Boolean |  |
| marginBalance | Number |  |
| shortBalance | Number |  |
| planId | String |  |
| rolloverAmount | Number |  |
| employerName | String |  |

Table: InvestmentBalance

|  |  |  |
| --- | --- | --- |
| Column Name | Data type | Filed type |
| BalanceName | String |  |
| BalanceType | Number |  |
| Currency | Currency |  |
| BalanceDate | Timestamp |  |
| BalanceValue | Number |  |
| AccountID | Number | FK |
| balanceDescription |  |  |

* Response status either success or error

|  |  |  |
| --- | --- | --- |
| Error Codes | Error Message | HTTP Status Code |
| 601 | Customer not found | 404 |
| 602 | Customer not authorized | 401 |
| 703 | Account not found | 400 |
| 901 | Source account not found | 404 |
| 902 | Source account closed | 404 |
|  | Success OK | 200 |

* Input:

Request as JSON by Post Method

{

Account Number: 11223344

}

* Output:

Response Data in JSON format

HTTP/1.1 200 OK

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

{

{

"AccountId":"50392848",

"accountType": "INVENSTMENT\_ACCOUNT",

"displayName": "Investment Account Details",

"description": "InvestmentAccount",

"Status": "OPEN",

"nickname": "ABC",

"currency" :{

"currencyRate":null,

"currencyCode":"EUR",

"originalCurrencyCode":null

},

"accountNumber":"51365570",

"interestRate":345.89,

"allowedCheckWriting":true,

"allowedOptionTrade":false,

"currentValue":"789045",

"availableCashBalance":56789.9,

"margin":true,

"marginBalance":null,

"shortBalance":567.9,

"brokerId":"BRID4567",

"planId":"sdf34",

"rolloverAmount":456.9,

"employerName":"Capgemini",

"balanceList":[

{

"balanceName":"Investment account Balance",

"balanceDescription":"Investment Account balance",

"balanceType":"AMOUNT",

"balanceValue":2389.9,

"balanceDate":null,

"currency":{

"currencyRate":null,

"currencyCode":"EUR",

"originalCurrencyCode":null

}

},

{

"balanceName":"Investment account Balance",

"balanceDescription":"Investment Account balance",

"balanceType":"PERCENTAGE",

"balanceValue":239.9,

"balanceDate":null,

"currency":{

"currencyRate":null,

"currencyCode":"EUR",

"originalCurrencyCode":null

}

}

],

    "transactions":null

}